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Subject: Spring 2018 Semi-Annual Monitoring Report

Hi Regan,

Attached please find a .pdf copy of the Spring 2018 Semi-Annual Monitoring Report for the Delavan Spray Technologies Site, located in Bamberg, South Carolina. A printed hard copy of the report will be put in the mail to you on Monday, July 16th. For your convenience, we are also including a copy of the report on Compact Disk (CD).

Please let us know if you have any questions.

Regards,
Walter

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July 13, 2018

JUL 17 2018

Ms. Regan Rahn, Project Manager
SC Department of Health and Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, SC 29201

**SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION**

Re: Spring 2018 Semi-Annual Groundwater Monitoring Report
Delavan Spray Technologies Site
Bamberg, South Carolina
SCDHEC VCC Number 13-4762-RP
SCDHEC File Number 51778
AECOM Project Number 60578249

Dear Ms. Rahn:

On behalf of United Technologies Aerospace Systems (UTAS), AECOM is providing you one (1) hard copy and one (1) electronic copy of the Spring 2018 Semi-Annual Groundwater Monitoring Report for the Delavan Spray Technologies Site. This report is being submitted to the Department in accordance with the Remedial Investigation Work Plan (Hart & Hickman, August 1, 2013) and voluntary clean-up contract (VCC) number 13-4762-RP, which was signed on July 3, 2013.

If you have any questions or require further information, please feel free to contact me.

Sincerely,

AECOM Technical Services, Inc.

Walter C. Gerald, P.G.
Project Manager
864-234-8925
walter.gerald@aecom.com

cc: Mr. Bill Penn – United Technologies Corporation
Ms. Kanistha Coombs – Delavan Spray Technologies
Ms. Leslee Alexander, PG – AECOM
Project File 60578249 (60314964)

PM Copy

Spring 2018 Semi-Annual Groundwater Monitoring Report

**Delavan Spray Technologies Site
4334 Main Highway
US Highway 301 South
Bamberg, South Carolina**

VCC 13-4762-RP

RECEIVED

JUL 17 2018

Prepared by:

AECOM Technical Services, Inc.
10 Patwood Drive
Building 6, Suite 500
Greenville, South Carolina

**SITE ASSESSMENT,
REMEDIATION &
REVITALIZATION**

July 13, 2018

SPRING 2018 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

DELAVAN SPRAY TECHNOLOGIES SITE BAMBERG, SOUTH CAROLINA

RESPONSIBILITY PARTY VOLUNTARY CLEANUP CONTRACT NUMBER 13-4762

The undersigned certify that they have reviewed the attached document and that the document is in material compliance with the guidelines and requirements of the State of South Carolina and the South Carolina Department of Health and Environmental Control (SCDHEC) and specifically, requirements under the SCDHEC Voluntary Cleanup Contract (VCC). The data presentations contained herein are consistent with generally accepted practices in the environmental profession.

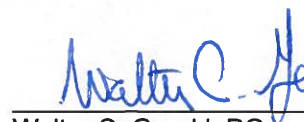
Prepared by:

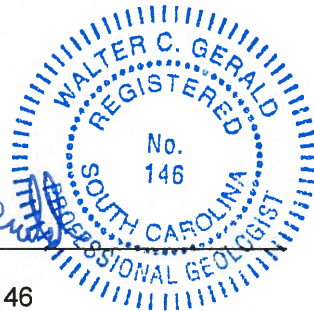

Leslee J. Alexander, PG
South Carolina PG No. 2433
AECOM Project Hydrogeologist



July 13, 2018
Date

Reviewed by:


Walter C. Gerald, PG
South Carolina PG No. 146
AECOM Project Manager



July 13, 2018
Date

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 OVERVIEW OF THE SITE	2
2.1 Background	2
2.2 Geology	3
2.3 Hydrogeology	4
3.0 GROUNDWATER MONITORING PROCEDURES	5
4.0 RESULTS	6
4.1 Groundwater Flow	6
4.2 Groundwater Quality	6
4.3 Investigation Derived Waste	11
4.4 Quality Assurance / Quality Control	12
5.0 CONCLUSIONS AND RECOMMENDATIONS	14
6.0 REFERENCES	17

LIST OF APPENDICES

<u>Appendix</u>	<u>Title</u>
A	Field Documentation ➤ Water Level Data Summary ➤ Equipment Calibration Logs ➤ Chain-of-Custody Forms ➤ Field Data Information Logs for Groundwater Sampling ➤ IDW Management Form ➤ Daily Reports
B	Analytical Data ➤ Laboratory Reports – Accutest Southeast ➤ Data Assessment Reports
C	Historical VOC Data
D	Trend Plots

LIST OF FIGURES

<u>Figure</u>	<u>Title</u>
1	Site Location Map
2	Site Layout Map
3	Shallow Potentiometric Map – May 2018
4	Deep Potentiometric Map – May 2018
5	PCE Detections in Shallow Groundwater – May 2018
6	TCE Detections in Shallow Groundwater – May 2018
7	cis-1,2-DCE Detections in Shallow Groundwater – May 2018
8	PCE Detections in Deeper Groundwater – May 2018
9	TCE Detections in Deeper Groundwater – May 2018
10	cis-1,2-DCE Detections in Deeper Groundwater – May 2018

LIST OF TABLES

<u>Table</u>	<u>Title</u>
1	Groundwater Levels and Elevations
2	Groundwater Quality Indicator Parameters
3	Analytical Results for Groundwater Samples
4	Analytical Results for Investigation-Derived Waste Sample
5	Summary of QA/QC Sample Results
6	Definitions of Data Qualifiers

1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM) has prepared this *Spring 2018 Semi-Annual Groundwater Monitoring Report* for the Delavan Spray Technologies Site (the Site). The Site is located at 4334 Main Highway (US Highway 301 South) in Bamberg, South Carolina (Figure 1). The spring 2018 semi-annual groundwater sampling was completed to meet the on-going monitoring requirements of Voluntary Cleanup Contract (VCC) (VCC 13-4762-RP) that was signed between South Carolina Department of Health and Environmental Control (SCDHEC) and Delavan Spray, LLC (Delavan; SCDHEC, 2013) and in accordance with the *Remedial Investigation Work Plan* (Hart & Hickman, 2013) approved by SCDHEC October 22, 2013.

This report provides a brief overview of the Site (Section 2.0), describes the sampling activities (Section 3.0), and presents the results (Section 4.0). Conclusions and recommendations based on the results are discussed in Section 5.0. Cited references are provided in Section 6.0.

2.0 OVERVIEW OF THE SITE

The facility manufactures several types of metal spray nozzles for fuel oils. The Site is comprised of a main manufacturing building and smaller associated support buildings, which are located on approximately 20 acres. A Site layout map is provided as Figure 2.

2.1 Background

Assessment activities were initiated at the Site in 2003, after chlorinated volatile organic compounds (VOCs) were detected in groundwater beneath the Site. The primary compounds of concern were reported to be tetrachloroethene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC).

In 2005, Hart & Hickman, PC (H&H) injected Hydrogen Release Compound[®] (HRC) into shallow groundwater to stimulate natural biodegradation of chlorinated compounds in groundwater. Post-injection monitoring was conducted by H&H between 2005 and 2007. The results indicated that chlorinated compounds were reduced in Site groundwater. However, VOCs remained in the groundwater at these locations at concentrations exceeding the United States Environmental Protection Agency (USEPA) maximum contaminant levels (MCLs) for drinking water.

Between 2007 and 2011, H&H conducted multiple groundwater assessments at the Site and surrounding area to further delineate the horizontal and vertical extent of VOCs detected in groundwater. A semi-annual groundwater monitoring program was also instituted to evaluate any changes to groundwater conditions at the Site.

A source area investigation was completed at the Site in August 2012 to determine the nature and general extent of potential compounds of interest (PCOIs) at the Site. The results of the August 2012 assessment indicated that VOC impacts to soil and groundwater are present at the former PCE underground storage tank (UST), and soil VOC impacts are present at both of the former degreaser areas, the former northern secondary containment area, and the northeastern wooded area. No soil VOC impacts were identified in the northwestern wooded area, and no VOC groundwater impacts were identified at the former northern secondary containment area (H&H, 2012 and 2013).

On July 5, 2013, a VCC between Delavan Spray, LLC and SCDHEC was executed (VCC 13-4762-RP). In accordance with Section 3 of the VCC, a Remedial Investigation (RI) was conducted in February/March 2014 (AECOM, 2014). The RI results provided further delineation of VOCs in soil and groundwater beneath the Site. Furthermore, the RI sampling results were used in conjunction with existing data to complete a Human Health Risk Assessment (HHRA) and an Ecological Risk Assessment.

No additional VOC source areas were identified in soil as a result of the RI. However, following their review of the RI report, SCDHEC requested additional soil assessment to delineate VOC impacts in the

vicinity of the northern former degreaser and additional monitoring wells to delineate VOC impacts in the shallow and deeper (limestone) aquifers. The additional assessment activities were incorporated into the *Post RI Work Plan* (AECOM, 2015), which was implemented in late November 2015. The analytical results were presented in the *Post RI Report* (AECOM, May 2016) and provided further delineation of VOCs in soil and groundwater at the Site.

Following the *Post RI Report*, SCDHEC requested a “work plan for delineation of the shallow and deep groundwater plumes.” The *Groundwater Delineation Work Plan* (AECOM, September 2016), which included groundwater screening with temporary wells and permanent monitoring well installation, was approved by SCDHEC in correspondence dated October 31, 2016, and was implemented between March 27, 2017 and May 10, 2017. The results of the investigation, which are documented in the *Groundwater Delineation Report* (AECOM, June 2017), confirmed the presence of PCE concentrations greater than the MCL in the limestone aquifer monitoring wells ~3,200 feet south/southwest of the Site.

SCDHEC approved the *Groundwater Delineation Report* in correspondence dated June 26, 2017 and agreed with the report’s recommendation that additional delineation was needed for PCE in the limestone aquifer south/southwest of the monitoring well network. The *Limestone Aquifer Assessment Work Plan* was submitted to SCDHEC on October 13, 2017 to address these recommendations. Delavan and AECOM participated in a conference call with SCDHEC on June 27, 2018 to discuss potential next steps and revisions to the additional assessment activities proposed in the *Limestone Aquifer Assessment Work Plan* (AECOM, October 2017). The revised work plan is expected to be submitted in summer 2018.

In addition, Delavan feels that it is prudent to address elevated concentrations of chlorinated VOCs (cVOCs) in residual “source areas” beneath the Facility, specifically where there are “hot spots” in shallow groundwater in the vicinity of the former PCE degreasers and the former PCE underground storage tank. As such, AECOM, on behalf of Delavan, submitted the *Focused Feasibility Study* to SCDHEC on July 12, 2017. This report was not requested by SCDHEC and was submitted pre-emptively so that, with SCDHEC concurrence, Delavan could begin steps to mitigate source areas while delineation is on-going in the limestone aquifer down-gradient of the Facility. Delavan and AECOM are also in the process of preparing a work plan for high resolution site characterization of the “hot spots” beneath the Facility using membrane interface probe (MIP) and hydraulic profiling tool (HPT) technology. It is anticipated this work plan will be submitted to SCDHEC in September 2018. The results of the investigation will be used to design a pilot study to test a remedy for the residual “source areas” beneath the Facility.

2.2 Geology

The Site lies within the western portion of the South Carolina Coastal Plain Province, which is characterized as a seaward thickening wedge of sediments from the fall line to the coast. These sediments consist of sands, silts, clays and limestones; representing a variety of non-marine and marine depositional environments.

For the purposes of Site characterization, the Delavan Spray Technologies Site geology has been subdivided into three general geologic zones by previous investigators. The upper zone consists of undifferentiated sands, clayey sands, sandy clays, and silts. In the northern portion of the Site, these sediments tend to contain a higher percentage of clay and silty layers. The middle zone consists of fossiliferous limestone; with a layer of pale yellow, poorly cemented, coarse shell fragments overlying a layer of white, better cemented limestone containing finer-grained shell fragments. The lower geologic zone is a loose to moderately cemented, calcareous, fine- to medium-grained clayey sandstone. The relationship of these geologic zones was previously illustrated on generalized cross-sections Figures 4, 5 and 6 of the *RI Work Plan* (H&H, 2013).

2.3 Hydrogeology

Groundwater occurrence in the Coastal Plain is typically within the intergranular pore spaces of the sands, silts and limestones (primary porosity) and within solution cavities or fractures of indurated sediments (secondary porosity). Primary production of groundwater occurs from within the more permeable units, while lower permeability clay layers typically retard groundwater movement. Recharge for significant aquifers in the Coastal Plain occurs both as transport from up-dip areas, toward the Fall Line, where the sediments are generally exposed at the land surface and as leakage from adjacent aquifer units through lower permeability aquitards.

3.0 GROUNDWATER MONITORING PROCEDURES

Spring 2018 semi-annual sampling activities were completed by AECOM personnel between May 7, 2018 and May 10, 2018. Monitoring activities were conducted in accordance with the procedures described in the *RI Work Plan* (H&H, 2013) and the sampling plan presented in the *Fall 2017 Semi-Annual Groundwater Monitoring Report* (AECOM, January 2018).

Sampling activities included:

- Groundwater level measurements were collected from all 41 existing monitoring wells;
- Groundwater samples were collected from 31 existing wells (Figure 2) using low-flow sampling techniques. Groundwater indicator parameters were collected from each well and all 31 samples were submitted for analysis of VOCs;
- Collection of a composite sample from two drums of aqueous investigation-derived waste (IDW) for analysis of VOCs, semi-volatile organic compounds (SVOCs) and priority pollutant metals for IDW characterization purposes.

The depth to water in the monitoring wells was measured using an electronic water level meter on May 7, 2018, prior to the start of sampling activities. The water levels were used to create potentiometric maps of the aquifer zones discussed in Section 4.1 below.

Monitoring wells were purged using a peristaltic pump and water levels were monitored during purging. Groundwater quality indicator parameters of pH, specific conductance, dissolved oxygen, oxidation-reduction potential (ORP), turbidity, and temperature were monitored during the groundwater purging process and recorded on the Field Data Logs for Groundwater Sampling, which are included in Appendix A. Samples were collected once the parameters had stabilized in accordance with the low-flow sampling procedure in the work plan (H&H, 2013).

Upon collection, all groundwater samples were labeled, preserved on ice, and kept under chain-of-custody protocol until received at the subcontract analytical laboratory. The samples were received by the laboratory in good condition with no QA/QC issues. Chain-of-custody forms are included in Appendix A.

All groundwater samples were analyzed for VOCs by USEPA Method 8260B. The aqueous IDW sample was analyzed for VOCs by USEPA Method 8260B, SVOCs by USEPA Method 8270D, and priority pollutant metals by USEPA Methods 6010C and 7470B. Water samples were analyzed by Accutest Laboratories, located in Orlando, Florida, a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and state of South Carolina certified laboratory. Laboratory analytical data packages are provided in Appendix B.

4.0 RESULTS

4.1 Groundwater Flow

Water level measurements were collected on May 7, 2018 and are summarized on Table 1 along with their corresponding groundwater elevations. Groundwater elevations measured in wells completed in the shallow aquifer zone were used to create a potentiometric map of the water-table surface (Figure 3). The spring 2018 water levels within the shallow aquifer zone occur between 131.99 and 138.46 feet in elevation. Shallow water level elevations were within approximately 1 foot of those collected during the spring 2017 groundwater monitoring event (April 2017). Compared to water levels measured during the fall 2017 groundwater monitoring event (October 2017), May 2017 water levels are generally 0.3 feet to 3.6 feet higher. Shallow flow patterns resulting from the spring 2018 water level measurements are similar to those observed previously at the Site. The equal potential lines indicate groundwater flow beneath the northern portion of the Facility varies between northward and southward flow directions, with local groundwater highs at MW-4 and MW-17. Groundwater levels appear depressed at MW-3, MW-8, MW-18, and MW-21. This phenomenon was previously recognized in the *RI Work Plan* (H&H, 2013) and characterized as a “groundwater trough”, a feature that has been observed to extend to MW-9 and MW-20 during previous field investigation efforts. The variances in groundwater elevation and flow directions in this portion of the Site could be the result of preferential flow pathways resulting from higher permeability zones due to local facies changes or induced drainage from the sanitary sewer line or incised drainage ditch, which forms the northern boundary of the Facility. However, the primary horizontal groundwater flow direction is inferred to be toward the west, toward Halfmoon Branch, which is consistent with findings from prior investigations conducted at the Site. The three wells on the Kinsey property to the west of the Site indicate the presence of an isolated groundwater high at MW-27, consistent with the findings of the spring 2017 and fall 2017 groundwater monitoring events.

Based on the May 2018 water level elevations within the deeper limestone aquifer zone, the potentiometric surface occurs between 130.44 feet and 133.79 feet in elevation (Figure 4). Groundwater elevations in May 2018 were within 0.4 feet of those measured during the spring 2017 groundwater monitoring event (April 2017) and 0.3 feet to 1.3 feet higher than those collected during the fall 2017 groundwater monitoring event (October 2017). From the equal potential lines, the inferred horizontal groundwater flow direction is to the south-southwest and is consistent with regional topography, drainage and findings from prior investigations conducted at the Site.

4.2 Groundwater Quality

Groundwater quality indicator parameters, including pH, specific conductance, dissolved oxygen and ORP were measured in the field during the well purging and sampling process. A summary of the groundwater quality indicator parameters is presented in Table 2. The groundwater sampling logs are included in Appendix A and the analytical results are summarized in Table 3. Historic data trends for

VOCs detected since the RI (AECOM, 2014) are presented in Appendix C and trend plots of VOCs and groundwater elevation versus time for select monitoring wells are included in Appendix D.

Shallow Aquifer Zone

VOCs

In the 18 groundwater samples collected from shallow aquifer zone groundwater during the spring 2018 semi-annual monitoring, seven VOCs (PCE, TCE, cis-1,2-DCE, trans-1,2-dichloroethene [trans-1,2-DCE], 1,1-DCE, 1,1,1-trichloroethane [1,1,1-TCA], and chloroform) were detected (Table 3). Four of these compounds, (PCE, TCE, cis-1,2-DCE, and chloroform) exceeded their respective MCLs in one or more samples of shallow groundwater.

PCE was the most frequently detected VOC in shallow aquifer zone groundwater samples (12 detections) and groundwater concentrations exceeded the MCL (5 micrograms per liter [µg/L]) in ten shallow monitoring wells (MW-1, MW-3, MW-5, MW-8, MW-9, MW-10, MW-19, MW-20, MW-21, and MW-24; Figure 5). The highest concentration was detected near Former PCE UST in MW-21 (25,600 µg/L). Elevated but lower concentrations of PCE were detected in shallow aquifer groundwater in the vicinity of the Former PCE Degreasers in MW-19 (18,700 µg/L) and MW-20 (388 µg/L), in MW-24 (2,050 µg/L) along the western property boundary, in MW-1 (298 µg/L) adjacent to the Former PCE Secondary Containment Area, in MW-9 (466 µg/L) and MW-10 (180 µg/L) located in the wooded areas of interest, in MW-3 (95.2 µg/L) downgradient of the Former PCE Secondary Containment Area, and in MW-8 (81.6 µg/L) located in the asphalt parking lot northeast of the main Facility building.

Detected TCE concentrations that exceeded the MCL occur across a smaller footprint than the PCE impacts and are coincident with the “hot-spots” of the PCE plume (Figure 6). TCE concentrations were detected in seven shallow monitoring wells and exceeded the MCL (5 µg/L) in five groundwater samples – MW-1 (8.1 µg/L), MW-8 (10.4 µg/L), MW-9 (46.5 µg/L), MW-10 (98.6 µg/L), and MW-21 (311 µg/L).

Cis-1,2-DCE was detected in seven shallow monitoring well locations and exceeded the MCL (70 µg/L) in two monitoring wells – MW-10 (136 µg/L), and MW-21 (777 µg/L; Figure 7). The detections of cis-1,2-DCE in the shallow aquifer generally correspond to “hot-spots” of PCE and TCE.

Chloroform was detected in two shallow aquifer monitoring wells and both concentrations exceeded the MCL (80 µg/L) - MW-19 (92.4 µg/L) and MW-21 (98.8 µg/L). Chloroform has been detected in site monitoring wells sporadically in the past, and has also been detected in samples collected from the on-site potable water source. It is a known byproduct of the chlorination process. Facility personnel have reported to AECOM that there have been previous and recent leaks in the water line and the Facility is currently in the process of replacing a portion of the line. The leaking water line is believed to be the source of chloroform detected in Site monitoring wells.

There were no exceedances of VOC MCLs in groundwater samples collected from off-Site wells screened in the shallow aquifer zone.

Indicator Parameters

Groundwater quality indicator parameters were monitored for all shallow monitoring wells during the groundwater purging process and recorded on the Field Data Logs for Groundwater Sampling, which are included in Appendix A. Select indicator parameters are summarized in the inset table below, along with their observed ranges and their optimal ranges for anaerobic biodegradation based on USEPA guidance (1998). Based on this information, dissolved oxygen is in the favorable range for the reductive pathway in three shallow monitoring wells sampled in May 2018 (i.e., MW-10, MW-15, and MW-21) and not tolerated in six shallow monitoring wells (MW-3, -5, -7, -14, -24, and -27). ORP is not favorable in any location. pH was outside the favorable range, except in down-gradient off-site wells MW-28 and MW-29. The low pH and elevated ORP levels observed over much of the shallow aquifer zone may inhibit natural degradation of chlorinated VOCs.

Analysis	Minimum	Maximum	Average	Optimal Range for Anaerobic Biodegradation Processes*
pH (S.U.)	3.56	7.10	4.16	5 < pH < 9 - Optimal range for reductive pathway 5 > pH > 9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.16	7.25	3.36	<0.5 mg/L - Tolerated, suppresses the reductive pathway at higher concentrations >5 mg/L - Not tolerated; however, VC may be oxidized aerobically
ORP (mV)	156.6	413.8	326.9	<50 millivolts (mV) - Reductive pathway possible <-100mV - Reductive pathway likely

* - from the *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (USEPA, 1998).
ND - not detected

Data Trends

As shown in the table of historical VOC results (Appendix C) and the trend plots (Appendix D), the VOC concentrations in many wells have decreased with time from their highest values. For instance, the PCE concentration in MW-1, located adjacent to the Former PCE Secondary Containment Area, has decreased from a historic high of 15,000 µg/L in June 2003 and has been relatively stable with concentrations between 380 µg/L and 785 µg/L since October 2014, with a current concentration of 298 µg/L. Similarly, the PCE concentration in MW-9 has decreased from a maximum of 7,500 µg/L detected in December 2003. Since that maximum in December 2003, concentrations have fluctuated with an overall decreasing pattern. Since spring 2015, concentrations in MW-9 have shown a more consistent downward trend, with a current concentration of 466 µg/L.

Other wells, such as MW-3, located immediately downgradient of the Former PCE UST and the Former PCE Secondary Containment Area, exhibit mixed trend results. The PCE concentration in MW-3 has decreased from a high of 391 µg/L in October 2010 to an estimated value of 0.92 µg/L in April 2015. The PCE concentration in MW-3 then increased to 199 µg/L in April 2017 before decreasing to 77.30 µg/L in October 2017. The current concentration (95.2 µg/L) is within the range of recent results. Similarly, PCE concentrations in MW-10, located in the northwestern wooded area of interest, have decreased from

a maximum of 5,800 µg/L detected in December 2003 to values less than 70 µg/L between April 2015 and April 2017. The concentrations in MW-10 increased to 149 µg/L in October 2017 and the current concentration is 180 µg/L. In addition, PCE concentrations in MW-8 decreased from their historic high (491µg/L) in May 2012 to 7.8 µg/L in April 2016. PCE concentrations in MW-8 have increased since then, with a current concentration of 81.6 µg/L.

Concentrations of PCE in groundwater from MW-19, located near the northern-most Former PCE Degreaser, exhibited an increasing trend between October 2014 (14,000 µg/L) and October 2016 (34,600 µg/L). The current concentration of MW-19 has decreased to 18,700 µg/L. The detected PCE concentration in down-gradient well MW-24, located on the western edge of the property, has increased from 344 µg/L in December 2015 to 2070 µg/L in April 2017, with a current concentration of 2,050 µg/L. This may be due to migration of mass from the hot-spot near MW-19, but it is too early in the monitoring of MW-24 to tell for certain. Other wells, such MW-20, which is located near the southern-most Former PCE Degreaser and has a current concentration of 388 µg/L, exhibit detected PCE concentration trends that seem to fluctuate with groundwater elevation changes (i.e., the concentrations decrease when water levels are low and increase when water levels are higher). This may indicate residual VOCs in the vadose zone near former source areas.

The VOC concentrations in groundwater from MW-21, located near the Former PCE UST, were relatively stable early in the monitoring history (i.e., detected PCE concentrations of 13,200 µg/L to 16,300 µg/L between March 2014 and April 2016), but was decreased to 181 µg/L during the October 2016 event. The October 2016 PCE concentration appears to be anomalously low, as the concentrations have been increasing since then, with a new high concentration of 25,600 µg/L in May 2018.

Deeper Aquifer Zone

VOCs

Thirteen groundwater samples were collected from deeper aquifer zone groundwater during the spring 2018 monitoring event, resulting in seven VOCs (PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon disulfide, and chloroform) that were detected (Table 3). Of these compounds, PCE and TCE exceeded their respective MCLs in one or more samples.

PCE was detected in 11 deeper aquifer zone groundwater samples (MW-3D, MW-12D, MW-13D, MW-14D, MW-21D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, and MW-32DR) and groundwater concentrations exceeded the MCL (5 µg/L) in all 11 of these samples (Figure 8). The detected PCE concentration was highest in the deeper limestone aquifer down-gradient of the southeast corner of the main building, down-gradient of areas where PCE has been used historically on-Site (299 µg/L at MW-3D). PCE concentrations exceeded the MCL (5 µg/L) in off-Site down-gradient wells MW-14D (59.9 µg/L), MW-22D (106 µg/L), MW-25D (123 µg/L), MW-26D (88.6 µg/L), MW-30D (86.7 µg/L), MW-31D (181 µg/L), and MW-32DR (30.4 µg/L).

TCE concentrations were detected in eight samples from the deeper aquifer zone in spring 2018. All of the detected concentrations were below the MCL of (5 µg/L), except for one sample in on-Site well MW-3D (7.4 µg/L) (Figure 9). TCE was detected in off-Site down-gradient wells MW-14D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, and MW-32DR but at low concentrations below the MCL.

Cis-1,2-DCE was detected in nine samples from deeper aquifer zone groundwater during the spring 2018 monitoring event (MW-3D, MW-14D, MW-21D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, MW-32DR), but none of the detected concentrations exceeded the MCL for cis-1,2-DCE (70 µg/L; Figure 10).

Other than PCE, the groundwater contaminant plumes in the deeper limestone aquifer are delineated off-Site by non-detects or concentrations below their respective MCLs.

Indicator Parameters

Groundwater quality indicator parameters were monitored in all deeper limestone aquifer monitoring wells during the groundwater purging process and recorded on the Field Data Logs for Groundwater Sampling, which are included in Appendix A. Select indicator parameters are summarized in the inset table below, along with their observed ranges and their optimal ranges for anaerobic biodegradation based on USEPA guidance (1998). Based on this information, measured pH values were favorable in all deeper aquifer monitoring wells. ORP values are also favorable in down-gradient well MW-21D. Dissolved oxygen values were optimal at monitoring wells MW-14D and MW-21D.

Analysis	Minimum	Maximum	Average	Optimal Range for Anaerobic Biodegradation Processes*
pH (S.U.)	7.24	8.90	7.52	5 < pH < 9 - Optimal range for reductive pathway 5 > pH > 9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.20	4.90	2.62	<0.5 mg/L - Tolerated, suppresses the reductive pathway at higher concentrations >5 mg/L - Not tolerated; however, VC may be oxidized aerobically
ORP (mV)	-44.8	253.5	148.9	<50 millivolts (mV) - Reductive pathway possible <-100mV - Reductive pathway likely

* - from the *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* (USEPA, 1998).

ND - not detected

Data Trends

As with the shallow aquifer zone, the historical VOC results (Appendix C) and trend plots (Appendix D) for deeper groundwater show that the VOC concentrations in many wells have decreased with time from their highest values. For instance, the PCE concentration in MW-3D has decreased from a maximum of 764 µg/L detected in April 2010, has been trending between approximately 200 µg/L and 380 µg/L since March 2014, and has a current concentration of 299 µg/L. PCE concentrations in MW-12D have decreased from a maximum of 451 µg/L detected in April 2010 to values between 12 µg/L and 66 µg/L through October 2015. After a brief increase to 140 µg/L in April 2016, concentrations have further

decreased to the current concentration (33.5 µg/L). PCE concentrations in MW-13D have decreased from a maximum of 292 µg/L in April 2010 and have been relatively steady at less than 100 µg/L since May 2011, until a recent increase to 151 µg/L in April 2016 and to 298 µg/L in October 2016. The current PCE concentration in MW-13D is 92.5 µg/L. The periodic increases in PCE in the deeper, down-gradient monitoring wells (e.g., MW-12D and MW-13D) may be a lagging response to increases observed in shallow monitoring wells near source areas in previous monitoring events.

PCE concentrations in MW-21D have decreased from 283 µg/L in March 2014 to 109 µg/L in May 2018. After the initial sampling event, the detected PCE concentration in this well has fluctuated from a low of 2 µg/L to as high as 169 µg/L. The variability in concentrations detected in MW-21D is likely related to similar variability observed in monitoring wells MW-19 and MW-20, located upgradient of MW-21D and in the shallow aquifer.

In down-gradient well MW-14D, concentrations have remained fairly consistent throughout the monitoring period before a recent decrease to the current concentration (59.9 µg/L). In other down-gradient monitoring wells, such as MW-25D, MW-26D, MW-30D, and MW-32DR, PCE concentrations have remained fairly consistent since the wells were installed.

VOC concentrations in some deeper aquifer wells exhibit trends that correspond to water level fluctuations, such as with MW-13D concentrations through April 2015 (Appendix D). Other wells, such as MW-14D and MW-21D, show no clear trend related to groundwater elevation or, in the case of off-Site down-gradient well MW-22D, trend opposite groundwater elevations (i.e., concentrations decrease when water levels increase) in some instances. It is unclear if the reduction in flow during periods of lower water levels simply leads to less dilution (i.e., higher concentrations in water) or if PCE trends are the result of lag-time in transport to the wells further down-gradient.

4.3 Investigation Derived Waste

Two drums of purge and decontamination water were generated as IDW during the semi-annual sampling activities and these are documented on the IDW management form in Appendix A. One composite IDW water sample was collected from the drum for analysis of VOCs by USEPA Method 8260B, SVOCs by USEPA Method 8270D, and metals by USEPA Methods 6010C and 7470B. IDW sample results were screened against maximum concentration for the Toxicity Characteristic listed in Code of Federal Regulations (40CFR§261.24). The results are summarized in Table 4. These results were used to generate waste profiles and identify appropriate disposal options for the IDW with a Delavan-approved disposal facility. Delavan Spray Technologies Site personnel are managing the disposal of IDW generated during the semi-annual monitoring event.

4.4 Quality Assurance / Quality Control

The analytical data (Appendix B) associated with the semi-annual sampling were validated in accordance with the procedures outlined in the RI Work Plan (H&H, 2013). Quality assurance / quality control (QA/QC) sample results are presented in Table 5 and data qualifiers added to the analytical data as a result of the validation process are defined in Table 6. The data assessment reports (DARs; Appendix B) explain data qualifiers added to the sample results as a result of the validation process.

Detections of chloroform associated with preparatory batch VJ5909 and $< 6.5 \mu\text{g/L}$ were qualified “/B/K” due to the presence of the analyte in the associated method blank sample. Non-detected results of benzoic acid associated with preparatory batch SX2514 were qualified “/R/c” due to low recovery in the associated laboratory control sample ($24\% < 25\text{-}150\%$). These qualifiers indicate the non-detections of these compounds are biased low and should be rejected. For all other samples and analytes, results of the validation process indicate that the data analyzed for this method are acceptable for their intended use and no data flags are required.

With the exception of non-detected results of benzoic acid in sample IDW-1, the QC excursions encountered during the validation of this data set did not result in the rejection of any data. Therefore, the remaining data associated with this laboratory batch should be considered compliant and adequate for its intended use.

Per the work plan, QA/QC samples collected include field duplicate samples, trip blank samples, and matrix spike/matrix spike duplicate (MS/MSD) samples. The results of these samples are discussed in the following sections. All duplicate, MS/MSD, and trip blank samples were analyzed by Accutest Laboratories located in Orlando, Florida.

Field Duplicates

Duplicate samples, designated with an “-A” suffix, were collected at the frequency of one per ten primary samples for groundwater samples. The results of the primary and field duplicate groundwater samples are provided in Table 5. During the validation process, no qualifiers were added to the data as a result of the relative percent difference (RPD) between the primary and field duplicate samples.

Trip Blanks

Trip blank samples, designated with a “-C” suffix, were submitted daily for coolers containing an aqueous sample for the analysis of VOCs. The results of the trip blank samples are provided in Table 5. No flags were added to primary samples in Table 3 based on the trip blank analyses.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSD samples were collected at a frequency of one per twenty primary samples and are included in the analytical data packages provided in Appendix B; however, these results were not tabulated as the information only pertains to the primary sample with which the MS/MSD is associated.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are submitted based on the evaluation of the spring 2018 semi-annual monitoring results and a limited comparison to previous sampling results:

- Shallow water levels were up to 3.6 feet higher than those collected during the fall 2017 groundwater monitoring event (October 2017) and within about a foot of those measured during the spring 2017 groundwater monitoring event (April 2017). The shape of the potentiometric surfaces and groundwater flow patterns in both the shallow and deeper aquifer zones are similar to those observed in the spring 2017 and fall 2017 monitoring events and previous investigations. Newly installed wells have helped to define the flow directions in off-site areas down-gradient of the Site between the western Site boundary and Halfmoon Branch.
- Concentrations of VOCs in the main plume in the shallow aquifer appear to be delineated on-site and bounded by non-detect values of PCE in off-site wells MW-27 and MW-28. There were no VOCs detected above their MCL in off-site monitoring wells screened in the shallow aquifer unit.
- With the exception of PCE, VOCs are delineated in deeper aquifer groundwater. PCE is the only VOC detected off-site in deeper aquifer groundwater. As illustrated on Figure 9, PCE occurs in groundwater at similar concentrations above the MCL to the south / southwest of the site at monitoring well locations MW-22D, MW-25D, MW-26D, and MW-30D, and at slightly lower concentrations at MW-14D and MW-32DR. The occurrence of PCE at these well locations is consistent with the inferred groundwater flow direction. The investigation work completed to date indicates that the PCE plume is migrating south / southwest of the existing well network and additional delineation will be required. The *Limestone Aquifer Assessment Work Plan* was submitted to SCDHEC on October 13, 2017 to address this additional delineation. Revisions to the work plan have been discussed with SCDHEC and a revised work plan is expected to be submitted in summer 2018.
- Detected concentrations of PCE in groundwater samples from the following monitoring wells were higher than those detected in the fall 2017 monitoring event:
 - o MW-3 (downgradient of the Facility building, former PCE UST, and former PCE Secondary Containment Area);
 - o MW-5 (along the fence line north of the warehouse)
 - o MW-8 (northeast of the Facility in the asphalt parking lot);
 - o MW-10 (in the Wooded Areas of Interest);
 - o MW-13D (outside the Facility fence, near the southwestern corner of the property)
 - o MW-20 (in the vicinity of the southern former PCE degreaser)
 - o MW-21 and MW-21D (located immediately downgradient from the former PCE UST);
 - o MW-24 (along the western fence line); and

- o MW-25D, MW-26D, MW-31D, and MW-32DR (located off-Site on the forested property south/southwest of the Site).

Some of these increases (e.g., MW-21 and MW-21D) may be a lagging response/migration of concentrations after recent increases at the hot spot at MW-19.

- PCE concentrations decreased compared to the fall 2017 monitoring event in groundwater samples from monitoring wells MW-1, MW-9, MW-12D, MW-14D, and MW-22D. For some of these wells (i.e., MW-12D and MW-22D), this may be as a result of normal seasonal fluctuation that has been observed in the data. However, many of these, such as MW-1 and MW-9, have decreased from historic high concentrations and appear to be on a stable or decreasing trend.
- The detected concentrations of PCE degradation products (i.e., TCE and cis-1,2-DCE) were similar to those detected during the fall 2017 semi-annual groundwater monitoring event, except in a few wells. Concentrations of TCE decreased in MW-1 and MW-9, and concentrations of cis-1,2-DCE decreased in MW-1, MW-9, and MW-10. TCE concentrations increased in MW-10.
- VC has not been detected in any Site monitoring wells since October 2015 and was not detected in any monitoring wells during the spring 2018 groundwater monitoring event.

Based on the data collected and reviewed since the RI, water levels and groundwater VOC concentrations fluctuate over time in some areas of the Site. Some wells, including MW-13D, and MW-20, exhibit trends in PCE concentration that track with water level fluctuations. Other wells, such as MW-3D, MW-9, MW-14D and MW-21D, exhibit mixed behavior or no trend with regard to VOC and water level trends. The cause for the observed trends is not completely clear and is complicated by the residual VOC mass that has been documented to be present beneath the hot-spots under the building footprint (i.e., in the vicinity of the Former PCE Degreasers). Delavan and AECOM recently completed a *Focused Feasibility Study Report* (AECOM, June 2017) to screen remedial alternatives to treat the residual source areas beneath the building. While AECOM and Delavan acknowledge that it is premature to complete a feasibility study for the entire Site before the PCE plume is completely delineated, the Focused Feasibility Study is designed to provide the framework to begin addressing residual source areas while the delineation is being completed. Delavan and AECOM are currently preparing a work plan for high resolution site characterization using MIP/HPT, which is expected to be submitted in Fall 2018. Data gained from the MIP/HPT investigation will be used to design a pilot study to test a remedy for the residual source areas beneath the Facility building.

Data generated from prior sampling events and investigations conducted in between 2014 and 2017 revealed data gaps in the delineation of the deeper limestone aquifer groundwater plumes associated with the Site. The *Limestone Aquifer Assessment Work Plan* was submitted to SCDHEC in October 2017 to address these data gaps and assess deeper limestone aquifer groundwater south/southwest of the existing groundwater monitoring network. Delavan and AECOM have participated in a conference call with SCDHEC to discuss revisions to the *Limestone Aquifer Assessment Work Plan* (AECOM, October 2017). Delavan and AECOM are currently addressing changes to the work plan and expect to submit the revisions later this month.

In accordance with the monitoring requirement of the VCC, the next semi-annual sampling event is scheduled to occur in October 2018. Groundwater monitoring will be conducted in accordance with the approved monitoring plan, which was included in the *Fall 2017 Semi-Annual Monitoring Report* (AECOM, 2018).

6.0 REFERENCES

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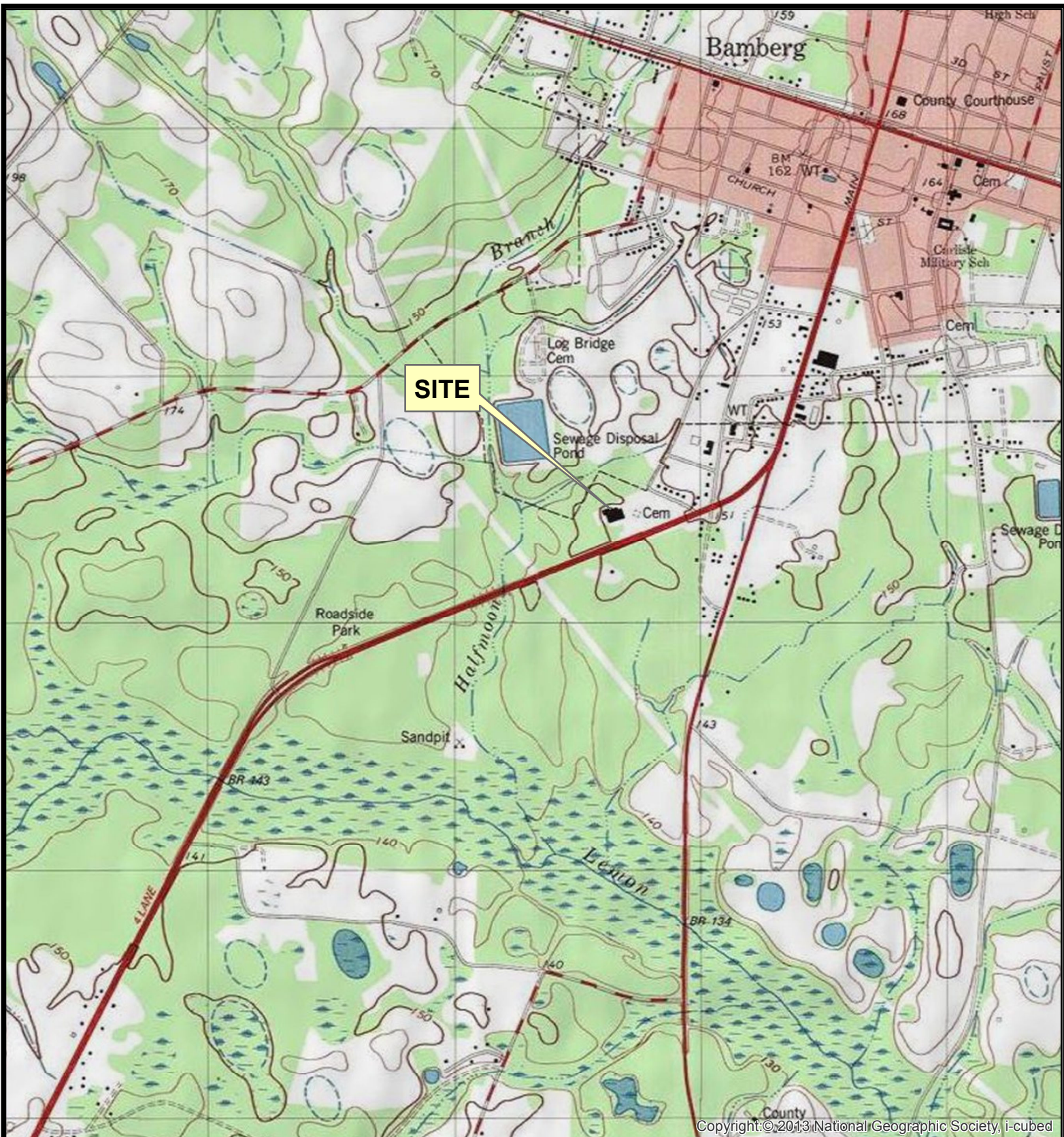
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FIGURES



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0 500 1,000 2,000 3,000 4,000 Feet

U.S.G.S. QUADRANGLE MAP
BAMBERG, SC 1979 (PHOTO REVISED 1987)

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

AECOM

10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

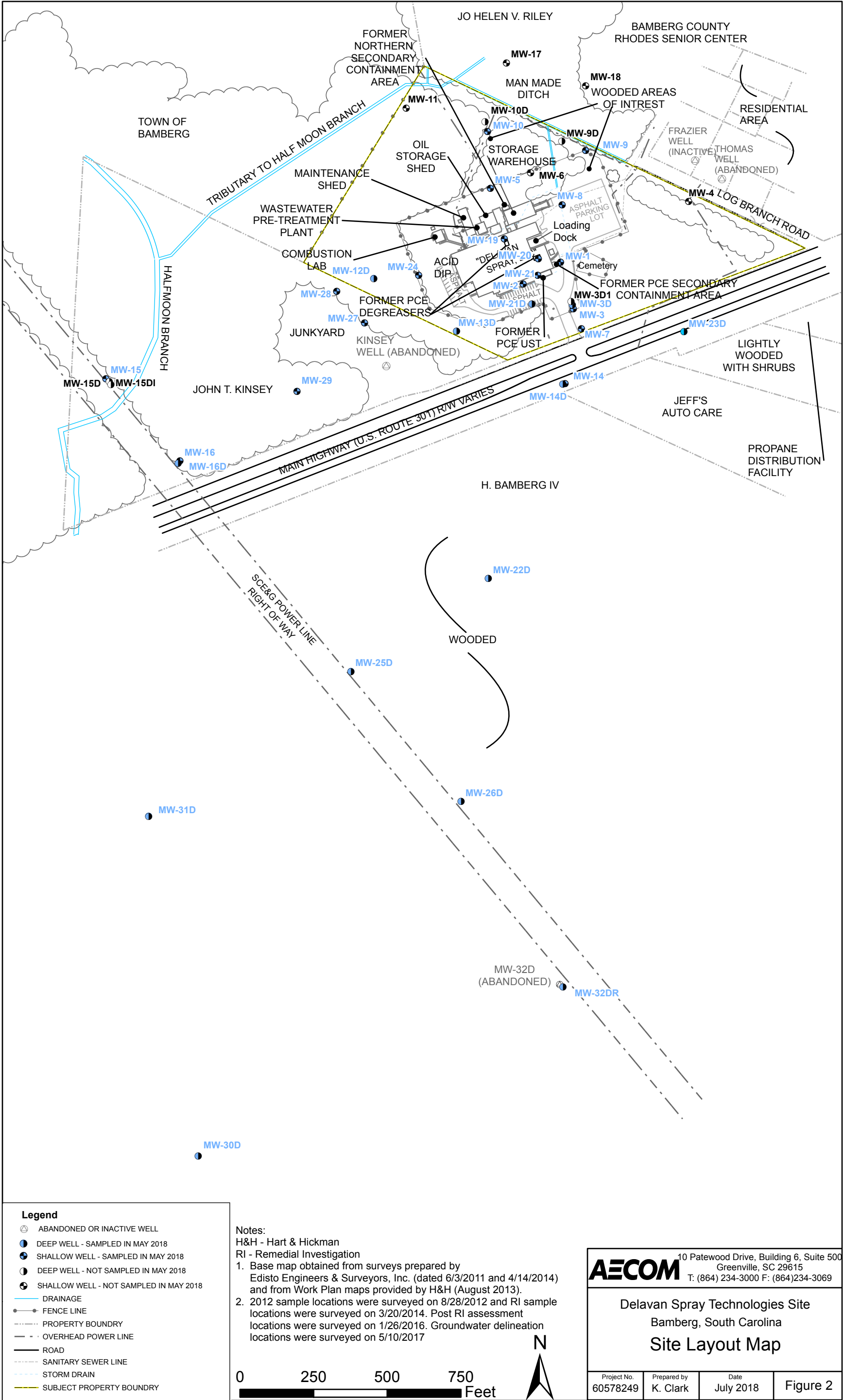
Site Location Map

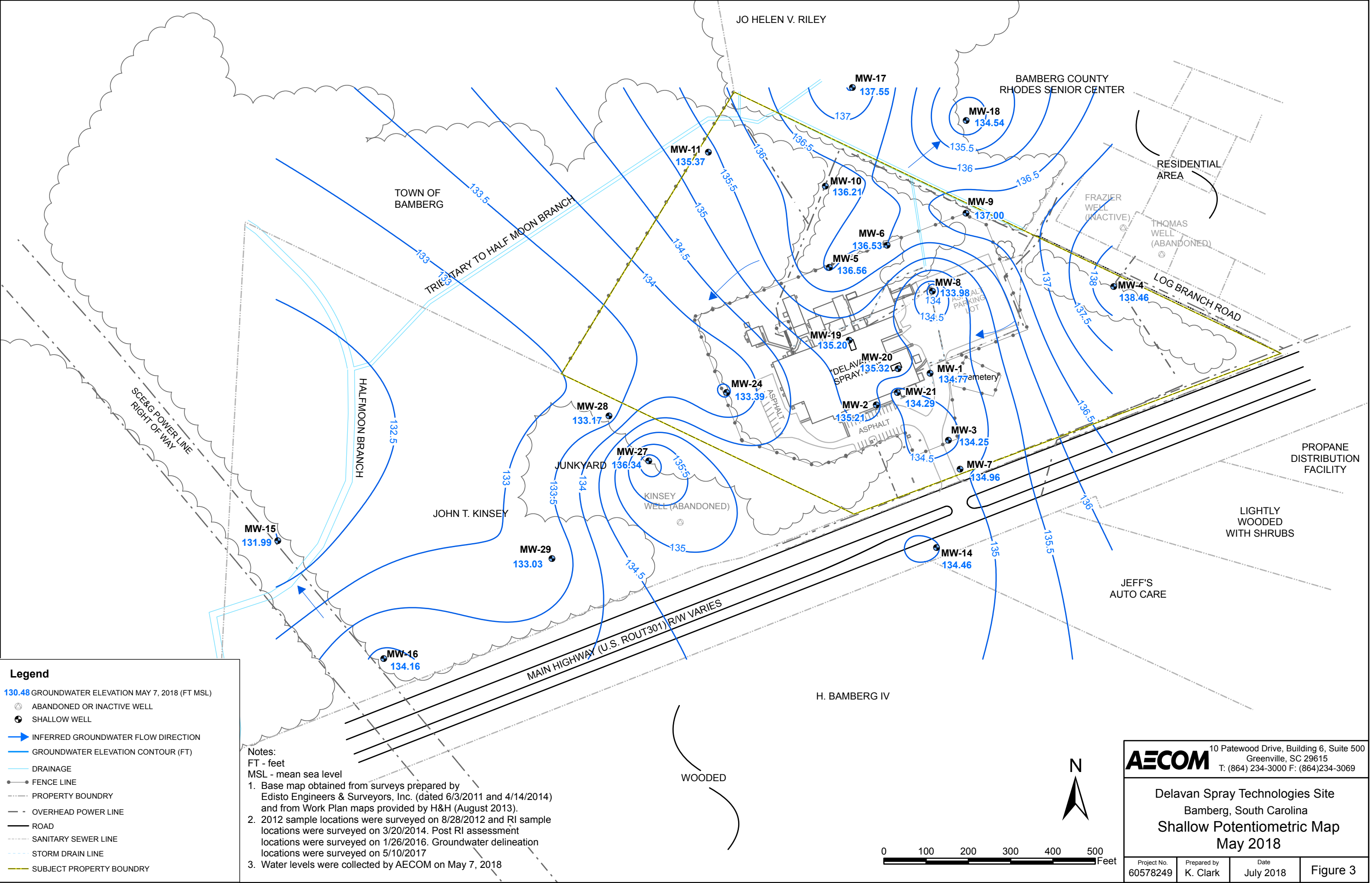
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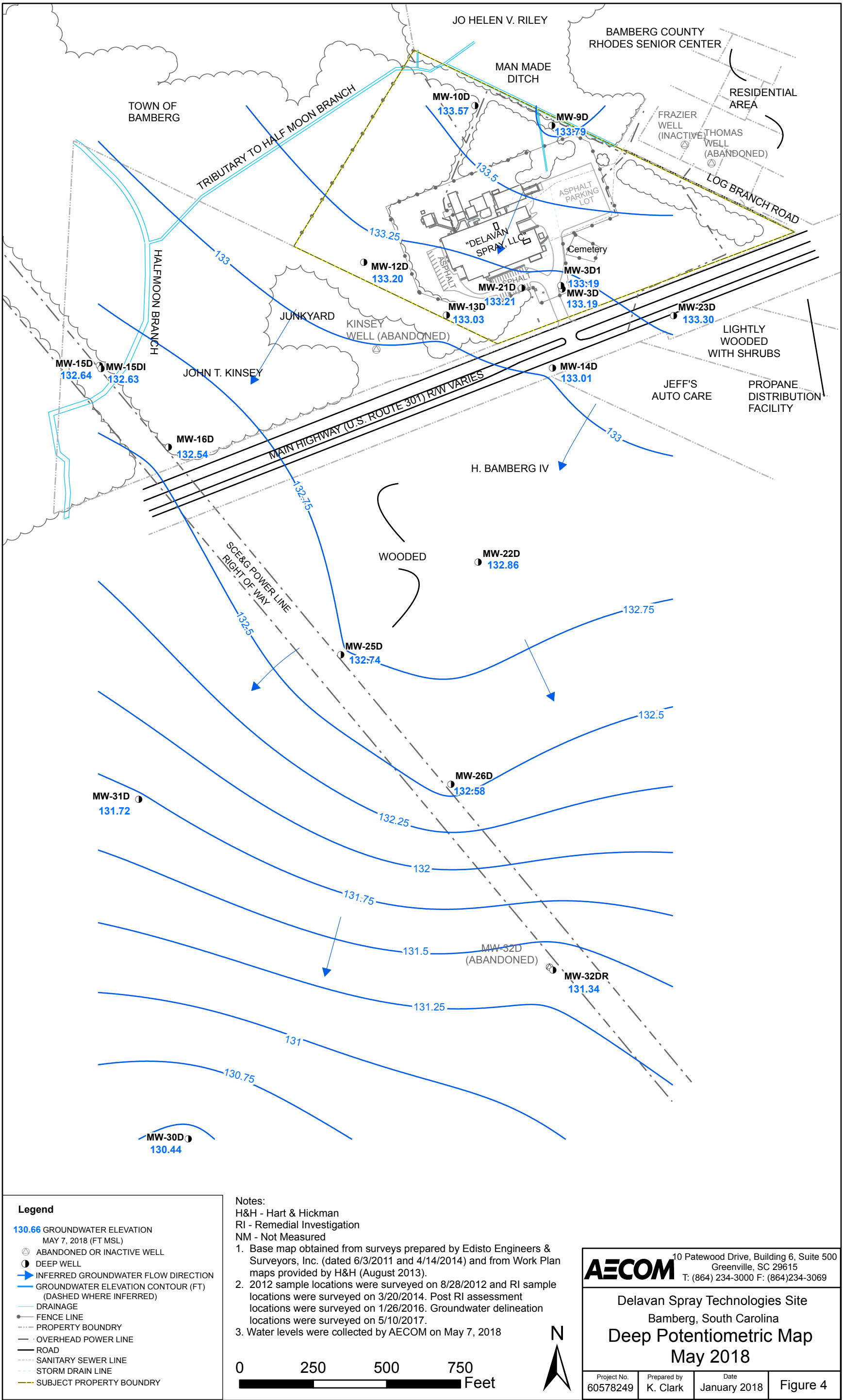
Prepared by
K. Clark

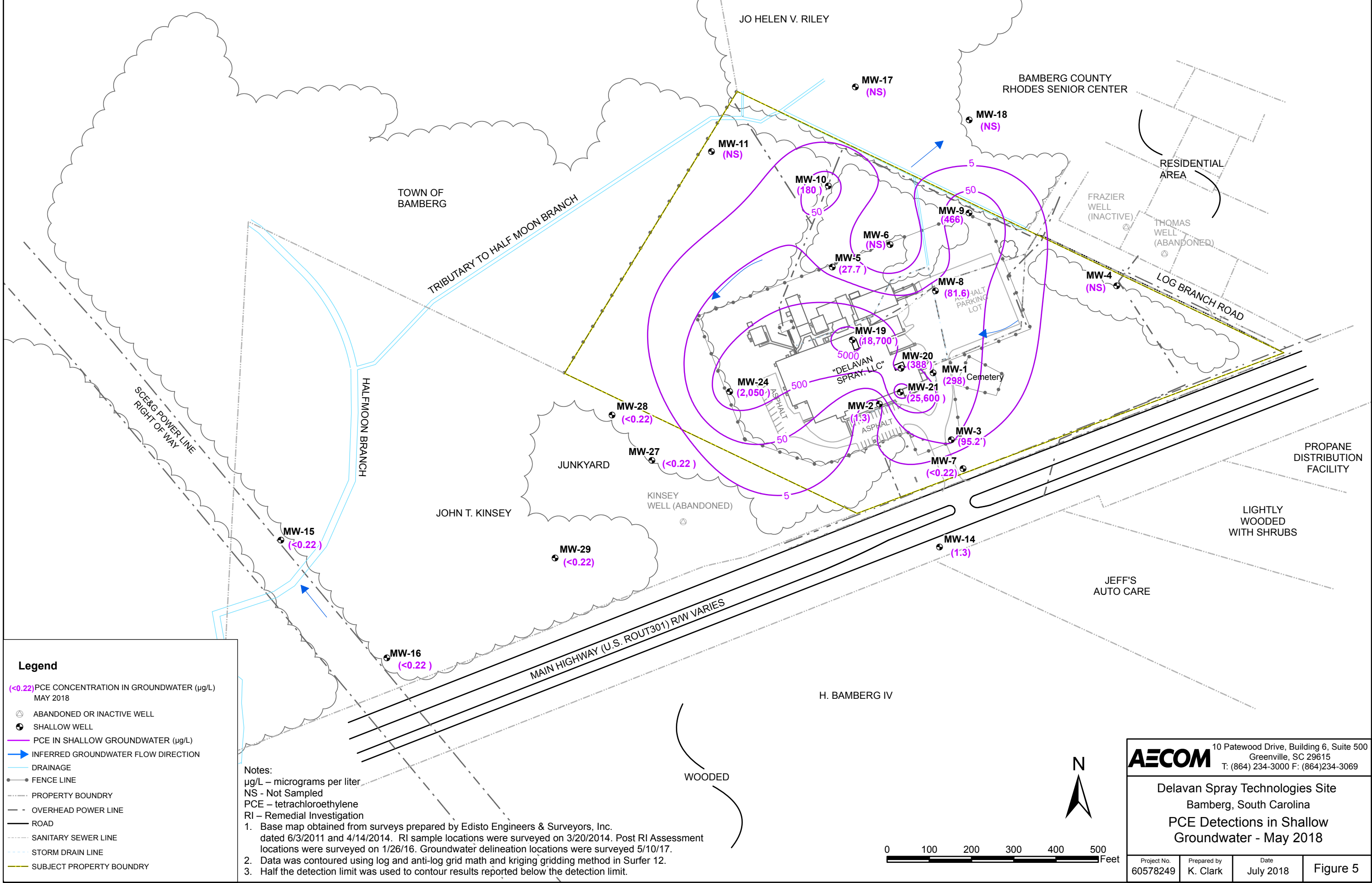
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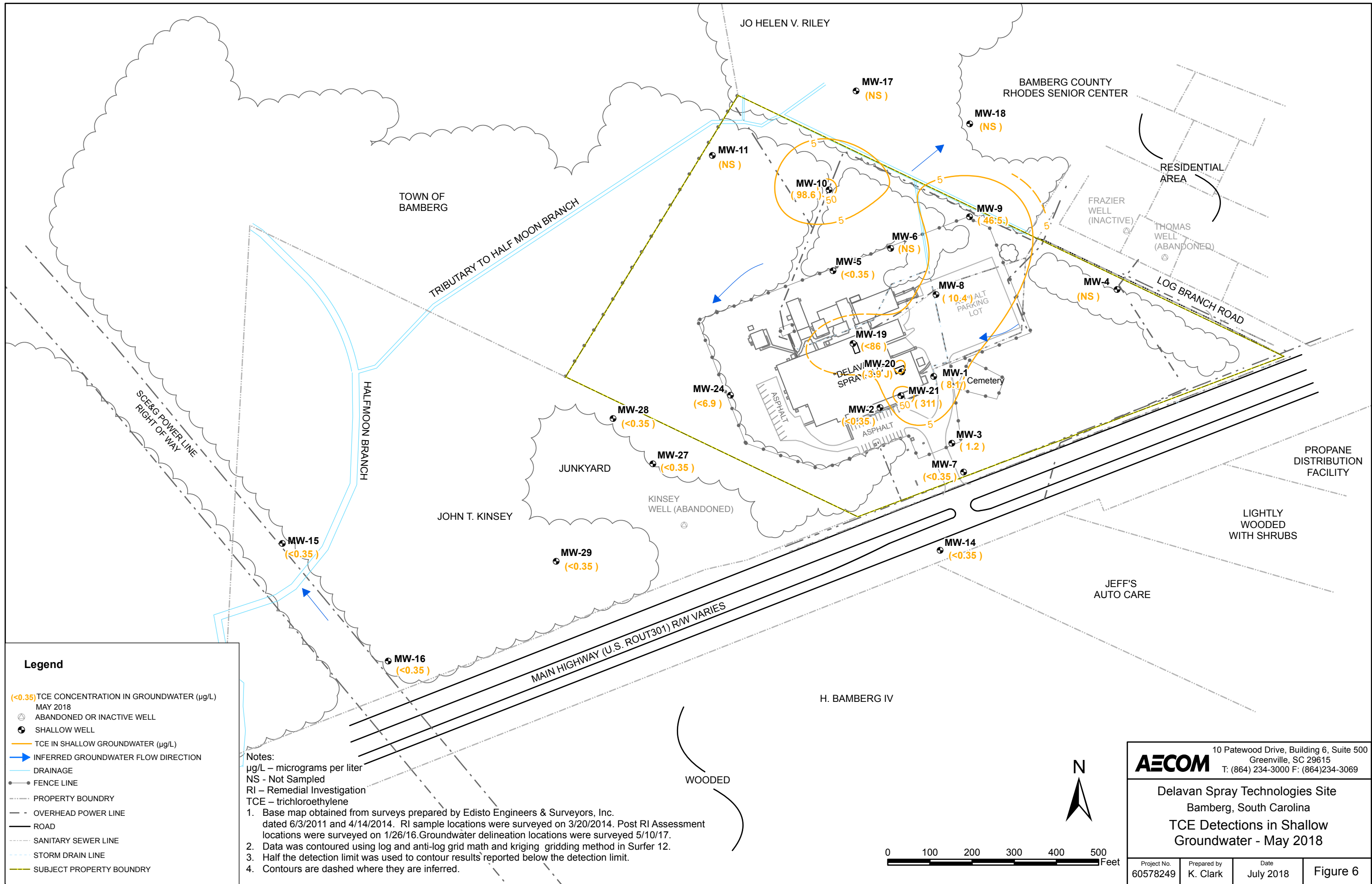
Figure 1

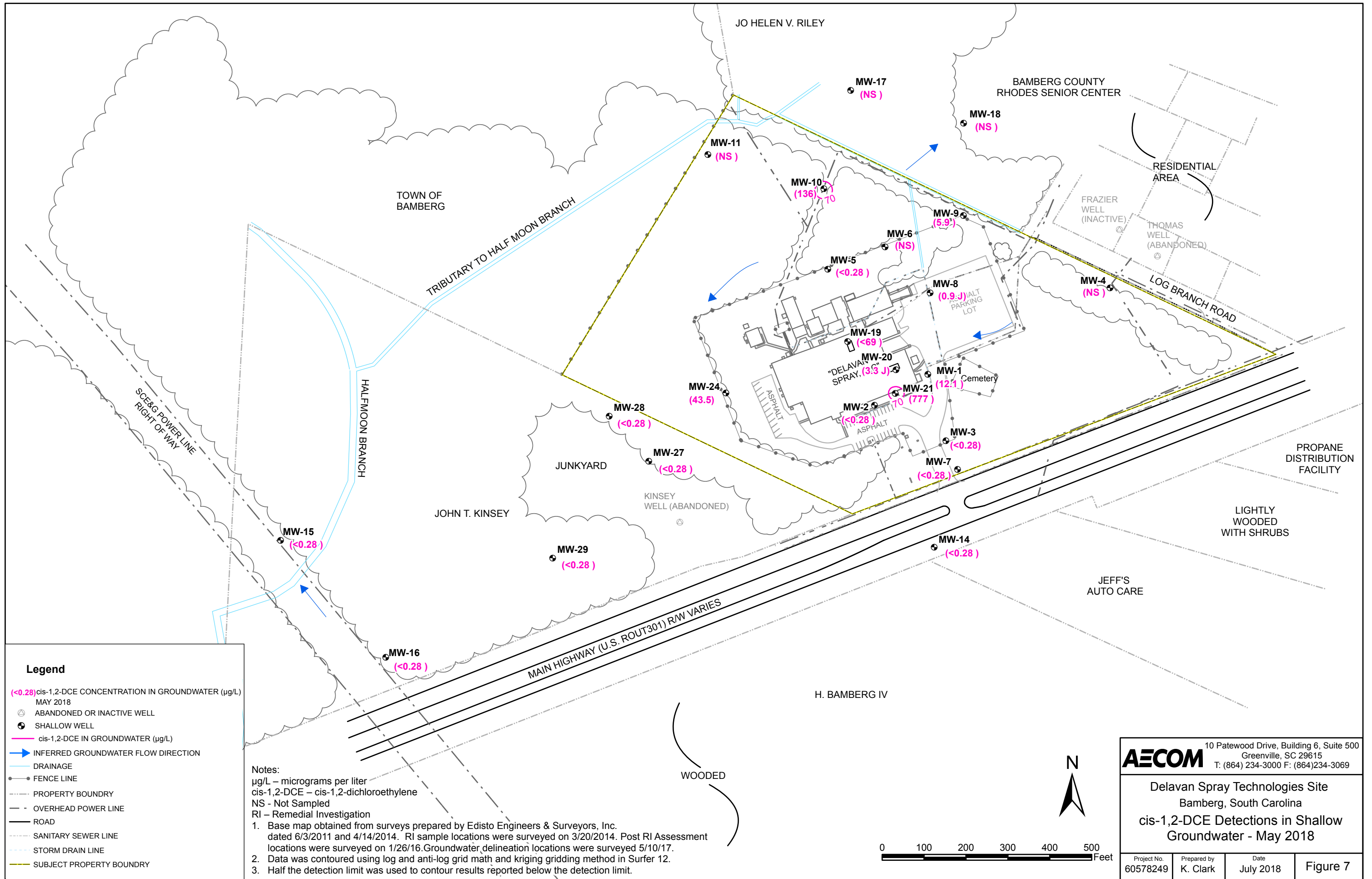


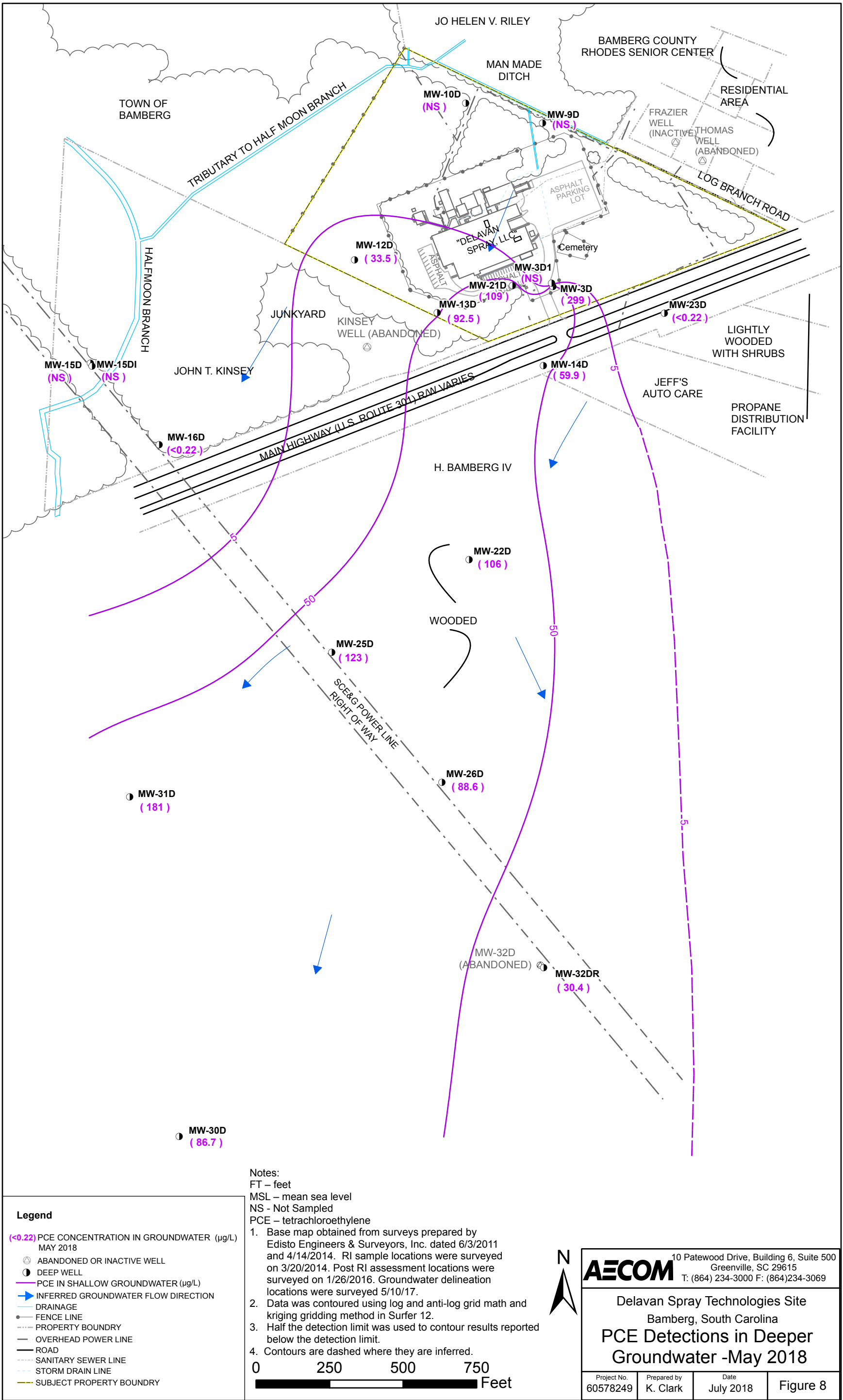


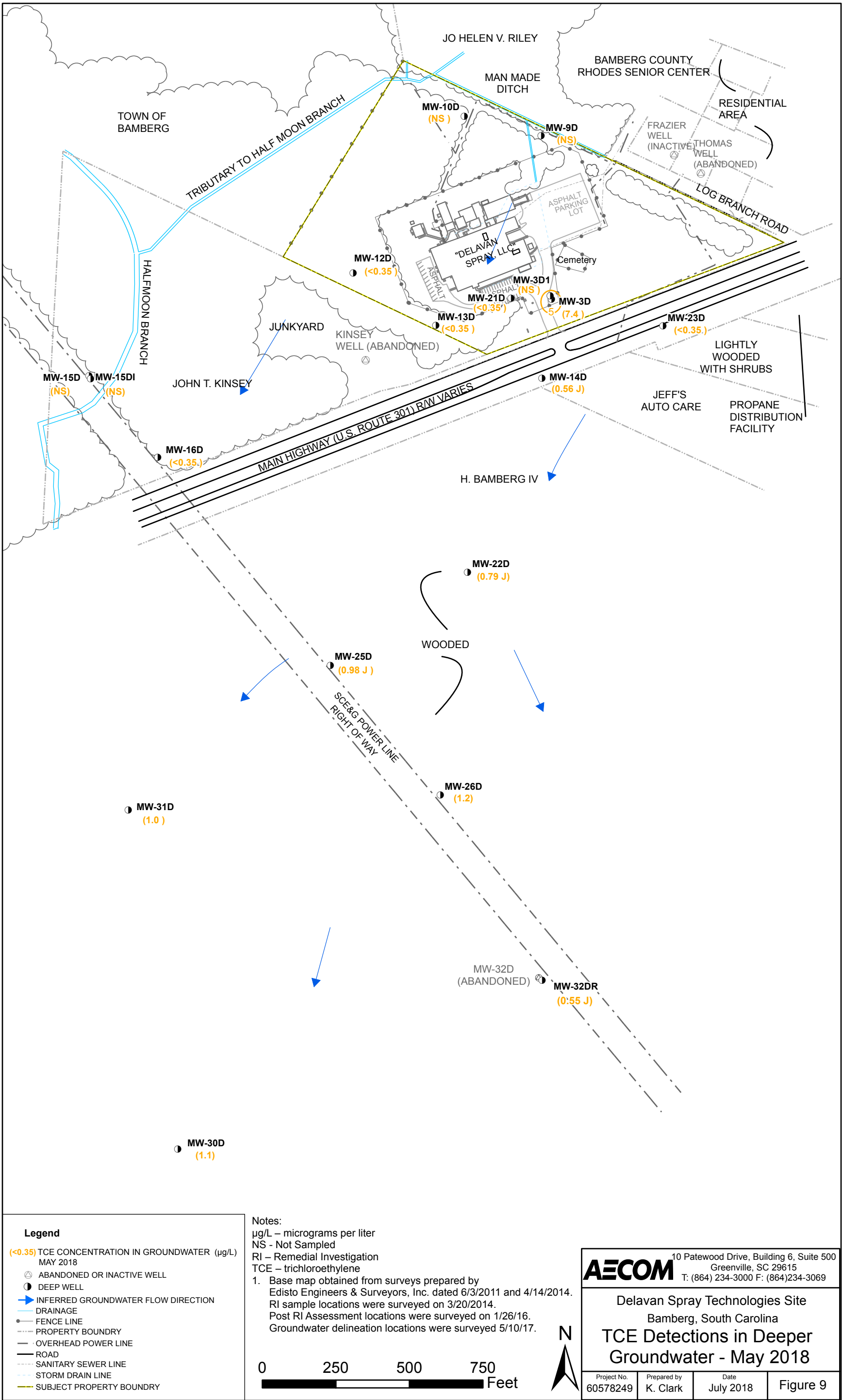


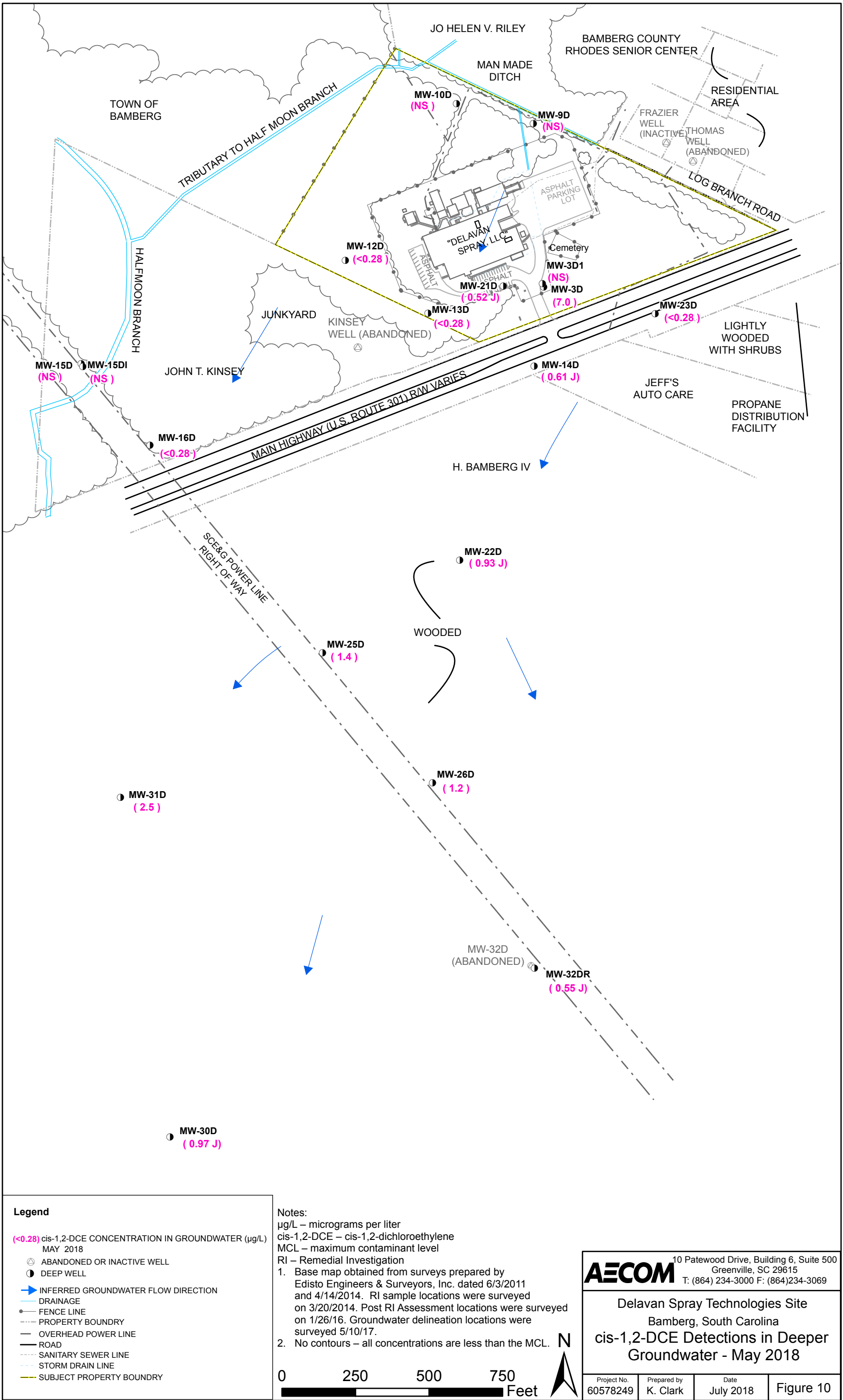












TABLES

Table 1
Groundwater Levels and Elevations
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Total Depth	Surface Casing Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer Designation	Ground Surface Elevation	Top of Casing Elevation	6/5/2003		7/9/2003		12/31/2003		1/16/2004		3/14/2005		6/1/2005		9/20/2005	
							Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	--	3-18	Shallow	147.56	147.19	9.70	137.49	8.42	138.77	12.88	134.31	13.02	134.17	12.54	134.65	12.31	134.88	12.66	134.53
MW-2	18	--	3-18	Shallow	147.81	147.63	5.81	141.82	4.76	142.87	12.52	135.11	12.73	134.90	11.95	135.68	10.56	137.07	12.37	135.26
MW-3	18	--	3-18	Shallow	148.34	148.11	11.41	136.70	9.20	138.91	14.11	134.00	14.11	134.00	13.54	134.57	13.86	134.25	13.94	134.17
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-4	14	--	4-14	Shallow	147.30	147.03	4.11	142.92	3.59	143.44	10.38	136.65	10.63	136.40	9.24	137.79	10.23	136.80	11.44	135.59
MW-5	14	--	4-14	Shallow	145.34	145.46	4.72	140.74	3.68	141.78	10.87	134.59	10.81	134.65	8.74	136.72	9.77	135.69	10.51	134.95
MW-6	14	--	4-14	Shallow	143.45	143.22	2.40	140.82	2.30	140.92	8.09	135.13	7.29	135.93	6.44	136.78	6.38	136.84	8.24	134.98
MW-7	20	--	5-20	Shallow	149.25	149.03	NI	NI	NI	NI	14.88	134.15	14.93	134.10	13.97	135.06	14.45	134.58	14.52	134.51
MW-8	20	--	5-20	Shallow	145.95	145.66	NI	NI	NI	NI	12.06	133.60	12.17	133.49	11.97	133.69	12.14	133.52	13.07	132.59
MW-9	20	--	5-20	Shallow	144.11	143.89	NI	NI	NI	NI	9.82	134.07	9.55	134.34	8.45	135.44	7.61	136.28	10.57	133.32
MW-9D	49	24	44-49	Deeper Limestone	144.80	144.20	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-10	18	--	3-18	Shallow	142.56	142.19	NI	NI	NI	NI	7.48	134.71	7.52	134.67	5.19	137.00	6.02	136.17	7.51	134.68
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-11	18	--	3-18	Shallow	143.77	143.16	NI	NI	NI	NI	8.00	135.16	8.12	135.04	7.48	135.68	7.87	135.29	8.90	134.26
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-14	20	--	5-20	Shallow	147.05	146.90	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-15	19	--	4-19	Shallow	136.13	135.73	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-16	19	--	4-19	Shallow	138.74	138.30	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-17	28.4	--	13-28	Shallow	142.07	141.66	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-18	26.4	--	11-26	Shallow	145.68	145.41	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	20.15	--	5-20	Shallow	148.47	148.22	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	15.15	--	5-15	Shallow	148.50	148.19	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	34.4	--	19-34	Shallow	148.43	147.97	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	21	--	6-21	Shallow	148.52	147.85	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-27	29	--	19 - 29	Shallow	145.93	145.78	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-28	29	--	19 - 29	Shallow	146.35	146.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-29	29	--	19 - 29	Shallow	141.03	140.55	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI

Table 1
Groundwater Levels and Elevations
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Total Depth	Surface Casing Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer Designation	Ground Surface Elevation	Top of Casing Elevation	12/12/2005		3/28/2006		6/26/2006		10/6/2006		1/12/2007		1/8/2008		11/4/2009	
							Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	--	3-18	Shallow	147.56	147.19	13.41	133.78	11.97	135.22	12.16	135.03	13.67	133.52	12.06	135.13	13.50	133.69	14.70	132.49
MW-2	18	--	3-18	Shallow	147.81	147.63	12.99	134.64	10.59	137.04	10.44	137.19	13.13	134.50	10.63	137.00	11.63	136.00	14.15	133.48
MW-3	18	--	3-18	Shallow	148.34	148.11	14.58	133.53	13.49	134.62	13.67	134.44	14.15	133.96	13.24	134.87	13.62	134.49	15.84	132.27
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	16.10	132.02	17.30	130.82
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	17.11	130.82
MW-4	14	--	4-14	Shallow	147.30	147.03	11.81	135.22	7.53	139.50	9.26	137.77	11.82	135.21	7.79	139.24	9.53	137.50	13.52	133.51
MW-5	14	--	4-14	Shallow	145.34	145.46	11.30	134.16	6.74	138.72	8.74	136.72	11.57	133.89	7.33	138.13	9.09	136.37	12.70	132.76
MW-6	14	--	4-14	Shallow	143.45	143.22	8.29	134.93	4.17	139.05	6.30	136.92	9.46	133.76	4.90	138.32	6.10	137.12	10.09	133.13
MW-7	20	--	5-20	Shallow	149.25	149.03	15.11	133.92	13.91	135.12	14.22	134.81	14.99	134.04	13.23	135.80	14.20	134.83	15.93	133.10
MW-8	20	--	5-20	Shallow	145.95	145.66	12.81	132.85	11.17	134.49	12.32	133.34	13.67	131.99	11.62	134.04	12.85	132.81	14.35	131.31
MW-9	20	--	5-20	Shallow	144.11	143.89	9.33	134.56	6.91	136.98	8.98	134.91	11.60	132.29	7.41	136.48	8.17	135.72	11.54	132.35
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.82	132.38	12.89	131.31
MW-10	18	--	3-18	Shallow	142.56	142.19	7.45	134.74	3.49	138.70	5.82	136.37	8.65	133.54	4.12	138.07	5.66	136.53	9.74	132.45
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.45	132.34	10.68	131.11
MW-11	18	--	3-18	Shallow	143.77	143.16	8.63	134.53	6.84	136.32	8.01	135.15	9.26	133.90	7.30	135.86	7.89	135.27	10.01	133.15
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	16.69	130.96
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	15.55	130.68
MW-14	20	--	5-20	Shallow	147.05	146.90	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	15.03	131.87
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	16.20	130.68
MW-15	18	--	4-19	Shallow	136.13	135.73	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-16	19	--	4-19	Shallow	138.74	138.30	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-17	28.4	--	13-28	Shallow	142.07	141.66	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-18	26.4	--	11-26	Shallow	145.68	145.41	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-19	20.15	--	5-20	Shallow	148.47	148.22	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-20	15.15	--	5-15	Shallow	148.50	148.19	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21	34.4	--	19-34	Shallow	148.43	147.97	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-24	21	--	6-21	Shallow	148.52	147.85	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-27	29	--	19 - 29	Shallow	145.93	145.78	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-28	29	--	19 - 29	Shallow	146.35	146.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-29	29	--	19 - 29	Shallow	141.03	140.55	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI

Table 1
Groundwater Levels and Elevations
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Total Depth	Surface Casing Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer Designation	Ground Surface Elevation	Top of Casing Elevation	4/29/2010		10/25/2010		12/15/2010		5/23/2011		11/8/2011		5/8/2012		3/20/2014	
							Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	--	3-18	Shallow	147.56	147.19	12.20	134.99	14.38	132.81	15.17	132.02	13.29	133.90	14.88	132.31	13.05	134.14	11.02	136.17
MW-2	18	--	3-18	Shallow	147.81	147.63	11.50	136.13	13.70	133.93	14.84	132.79	12.88	134.75	14.51	133.12	12.94	134.69	10.25	137.38
MW-3	18	--	3-18	Shallow	148.34	148.11	13.81	134.30	14.56	133.55	15.84	132.27	14.01	134.10	15.65	132.46	13.93	134.18	12.15	135.96
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	15.03	133.09	17.39	130.73	17.36	130.76	16.75	131.37	17.45	130.67	16.22	131.90	13.74	134.38
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	14.86	133.07	17.32	130.61	17.19	130.74	16.55	131.38	17.29	130.64	16.05	131.88	13.52	134.41
MW-4	14	--	4-14	Shallow	147.30	147.03	8.95	138.08	12.73	134.30	13.49	133.54	11.37	135.66	Dry	NA	9.44	137.59	4.7	142.33
MW-5	14	--	4-14	Shallow	145.34	145.46	9.50	135.96	12.31	133.15	13.51	131.95	11.05	134.41	13.45	132.01	8.97	136.49	4.76	140.70
MW-6	14	--	4-14	Shallow	143.45	143.22	6.50	136.72	10.00	133.22	11.32	131.90	8.40	134.82	11.15	132.07	6.20	137.02	3.04	140.18
MW-7	20	--	5-20	Shallow	149.25	149.03	14.30	134.73	15.33	133.70	15.89	133.14	14.65	134.38	15.73	133.30	14.39	134.64	11.87	137.16
MW-8	20	--	5-20	Shallow	145.95	145.66	11.79	133.87	14.35	131.31	14.52	131.14	13.50	132.16	14.60	131.06	12.88	132.78	10.27	135.39
MW-9	20	--	5-20	Shallow	144.11	143.89	6.81	137.08	11.65	132.24	12.55	131.34	9.20	134.69	12.60	131.29	6.25	137.64	4.87	139.02
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	10.58	133.62	12.99	131.21	12.98	131.22	12.26	131.94	13.12	131.08	11.78	132.42	9.15	135.05
MW-10	18	--	3-18	Shallow	142.56	142.19	6.14	136.05	9.73	132.46	10.66	131.53	7.98	134.21	10.57	131.62	5.88	136.31	2.63	139.56
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	8.38	133.41	10.76	131.03	10.76	131.03	10.02	131.77	10.89	130.90	9.59	132.20	6.99	134.80
MW-11	18	--	3-18	Shallow	143.77	143.16	8.15	135.01	9.98	133.18	10.92	132.24	9.11	134.05	10.82	132.34	8.39	134.77	6.39	136.77
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	14.62	133.03	16.92	130.73	16.87	130.78	16.18	131.47	16.99	130.66	15.69	131.96	13.28	134.37
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	13.33	132.90	15.65	130.58	15.61	130.62	14.99	131.24	15.71	130.52	14.44	131.79	12.02	134.21
MW-14	20	--	5-20	Shallow	147.05	146.90	12.69	134.21	13.99	132.91	14.67	132.23	13.38	133.52	14.52	132.38	12.97	133.93	10.49	136.41
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	14.01	132.87	16.34	130.54	16.26	130.62	15.69	131.19	16.37	130.51	15.09	131.79	12.71	134.17
MW-15	18	--	4-19	Shallow	136.13	135.73	NI	NI	NI	NI	NI	NI	5.44	130.29	6.68	129.05	3.77	131.96	1.71	134.02
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	NI	NI	NI	NI	NI	NI	4.55	131.04	5.23	130.36	4.15	131.44	1.92	133.67
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.25	131.44	2.04	133.65
MW-16	19	--	4-19	Shallow	138.74	138.30	NI	NI	NI	NI	NI	NI	6.40	131.90	8.15	130.15	5.26	133.04	2.54	135.76
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	NI	NI	NI	NI	NI	NI	7.49	130.89	8.30	130.08	7.05	131.33	4.79	133.59
MW-17	28.4	--	13-28	Shallow	142.07	141.66	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1.90	139.76
MW-18	26.4	--	11-26	Shallow	145.68	145.41	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.07	136.34
MW-19	20.15	--	5-20	Shallow	148.47	148.22	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.35	136.87
MW-20	15.15	--	5-15	Shallow	148.50	148.19	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.11	137.08
MW-21	34.4	--	19-34	Shallow	148.43	147.97	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.42	136.55
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	12.51	134.41
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.96	134.00
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	13.73	134.53
MW-24	21	--	6-21	Shallow	148.52	147.85	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-27	29	--	19 - 29	Shallow	145.93	145.78	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-28	29	--	19 - 29	Shallow	146.35	146.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-29	29	--	19 - 29	Shallow	141.03	140.55	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI

Table 1
Groundwater Levels and Elevations
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Total Depth	Surface Casing Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer Designation	Ground Surface Elevation	Top of Casing Elevation	10/27/2014		4/20/2015		10/26/2015		4/11/2016		10/24/2016		4/12/2017		4/13/2017	
							Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	--	3-18	Shallow	147.56	147.19	13.53	133.66	10.81	136.38	10.51	136.68	11.40	135.79	11.05	136.14	12.38	134.81	NM	NM
MW-2	18	--	3-18	Shallow	147.81	147.63	13.63	134.00	9.64	137.99	8.61	139.02	10.43	137.20	10.11	137.52	12.04	135.59	NM	NM
MW-3	18	--	3-18	Shallow	148.34	148.11	14.16	133.95	12.62	135.49	12.73	135.38	13.19	134.92	13.08	135.03	13.94	134.17	NM	NM
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	16.07	132.05	13.48	134.64	13.89	134.23	14.04	134.08	13.96	134.16	14.61	133.51	14.67	133.45
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	15.89	132.04	13.25	134.68	13.69	134.24	13.83	134.10	13.75	134.18	14.40	133.53	NM	NM
MW-4	14	--	4-14	Shallow	147.30	147.03	11.70	135.33	4.79	142.24	4.47	142.56	5.22	141.81	5.48	141.55	8.03	139.00	NM	NM
MW-5	14	--	4-14	Shallow	145.34	145.46	11.43	134.03	4.60	140.86	4.35	141.11	6.31	139.15	6.97	138.49	8.37	137.09	NM	NM
MW-6	14	--	4-14	Shallow	143.45	143.22	5.96	137.26	2.20	141.02	2.98	140.24	4.14	139.08	4.93	138.29	6.02	137.20	NM	NM
MW-7	20	--	5-20	Shallow	149.25	149.03	14.73	134.30	12.88	136.15	12.71	136.32	13.19	135.84	13.12	135.91	14.33	134.70	NM	NM
MW-8	20	--	5-20	Shallow	145.95	145.66	13.02	132.64	10.06	135.60	10.22	135.44	10.62	135.04	10.58	135.08	11.34	134.32	NM	NM
MW-9	20	--	5-20	Shallow	144.11	143.89	9.78	134.11	4.54	139.35	5.07	138.82	5.14	138.75	5.60	138.29	6.04	137.85	NM	NM
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	11.64	132.56	8.93	135.27	9.34	134.86	9.99	134.21	9.43	134.77	10.03	134.17	NM	NM
MW-10	18	--	3-18	Shallow	142.56	142.19	8.50	133.69	2.47	139.72	2.61	139.58	3.52	138.67	4.06	138.13	5.15	137.04	NM	NM
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	9.40	132.39	6.75	135.04	7.17	134.62	7.27	134.52	7.27	134.52	7.84	133.95	NM	NM
MW-11	18	--	3-18	Shallow	143.77	143.16	8.96	134.20	6.40	136.76	6.45	136.71	6.64	136.52	6.95	136.21	7.24	135.92	NM	NM
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	15.55	132.10	13.02	134.63	13.42	134.23	13.58	134.07	13.54	134.11	14.10	133.55	14.15	133.50
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	14.29	131.94	11.75	134.48	12.18	134.05	12.32	133.91	12.25	133.98	12.97	133.26	12.92	133.31
MW-14	20	--	5-20	Shallow	147.05	146.90	13.02	133.88	10.54	136.36	10.69	136.21	11.18	135.72	11.22	135.68	12.46	134.44	NM	NM
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	14.99	131.89	12.43	134.45	12.87	134.01	13.04	133.84	12.93	133.95	13.57	133.31	13.63	133.25
MW-15	18	--	4-19	Shallow	136.13	135.73	4.49	131.24	2.09	133.64	3.00	132.73	2.69	133.04	3.14	132.59	2.95	132.78	NM	NM
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	3.79	131.80	1.80	133.79	2.07	133.52	2.20	133.39	2.19	133.40	2.60	132.99	NM	NM
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	3.91	131.78	1.91	133.78	2.18	133.51	2.32	133.37	2.30	133.39	2.70	132.99	NM	NM
MW-16	19	--	4-19	Shallow	138.74	138.30	6.68	131.62	2.35	135.95	3.38	134.92	2.73	135.57	3.80	134.50	3.01	135.29	NM	NM
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	6.76	131.62	4.54	133.84	4.95	133.43	5.08	133.30	5.04	133.34	5.51	132.87	5.54	132.84
MW-17	28.4	--	13-28	Shallow	142.07	141.66	6.93	134.73	1.91	139.75	2.65	139.01	2.79	138.87	2.96	138.70	3.06	138.60	NM	NM
MW-18	26.4	--	11-26	Shallow	145.68	145.41	12.48	132.93	9.23	136.18	9.75	135.66	9.86	135.55	9.96	135.45	10.57	134.84	NM	NM
MW-19	20.15	--	5-20	Shallow	148.47	148.22	14.42	133.80	10.90	137.32	10.02	138.20	11.42	136.80	11.30	136.92	12.98	135.24	NM	NM
MW-20	15.15	--	5-15	Shallow	148.50	148.19	14.30	133.89	10.55	137.64	9.59	138.60	11.25	136.94	10.57	137.62	12.81	135.38	NM	NM
MW-21	34.4	--	19-34	Shallow	148.43	147.97	14.59	133.38	11.23	136.74	11.38	136.59	12.68	135.29	12.48	135.49	13.45	134.52	NM	NM
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	14.84	132.08	12.25	134.67	12.67	134.25	12.83	134.09	12.75	134.17	13.39	133.53	13.44	133.48
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	14.19	131.77	11.68	134.28	12.11	133.85	12.27	133.69	12.18	133.78	12.81	133.15	12.87	133.09
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	16.18	132.08	13.48	134.78	13.95	134.31	14.09	134.17	13.98	134.28	14.65	133.61	14.71	133.55
MW-24	21	--	6-21	Shallow	148.52	147.85	NI	NI	NI	NI	NI	NI	13.39	134.46	13.42	134.43	14.10	133.75	NM	NM
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	NI	NI	NI	NI	NI	NI	5.66	133.55	5.58	133.63	6.16	133.05	6.21	133.00
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	NI	NI	NI	NI	NI	NI	10.32	133.32	10.20	133.44	10.81	132.83	10.87	132.77
MW-27	29	--	19 - 29	Shallow	145.93	145.78	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.91	135.87	NM	NM
MW-28	29	--	19 - 29	Shallow	146.35	146.12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	12.60	133.52	NM	NM
MW-29	29	--	19 - 29	Shallow	141.03	140.55	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.17	133.38	NM	NM
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.35	130.66
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.42	131.97
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.49	131.43
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI

Table 1
Groundwater Levels and Elevations
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Total Depth	Surface Casing Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer Designation	Ground Surface Elevation	Top of Casing Elevation	10/16/2017		5/7/2018	
							Depth to Water	Elevation	Depth to Water	Elevation
MW-1	18	--	3-18	Shallow	147.56	147.19	13.51	133.68	12.42	134.77
MW-2	18	--	3-18	Shallow	147.81	147.63	13.82	133.81	12.42	135.21
MW-3	18	--	3-18	Shallow	148.34	148.11	14.12	133.99	13.86	134.25
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	16.16	131.96	14.93	133.19
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	15.98	131.95	14.74	133.19
MW-4	14	--	4-14	Shallow	147.30	147.03	11.49	135.54	8.57	138.46
MW-5	14	--	4-14	Shallow	145.34	145.46	12.10	133.36	8.90	136.56
MW-6	14	--	4-14	Shallow	143.45	143.22	10.02	133.20	6.69	136.53
MW-7	20	--	5-20	Shallow	149.25	149.03	14.57	134.46	14.07	134.96
MW-8	20	--	5-20	Shallow	145.95	145.66	13.16	132.50	11.68	133.98
MW-9	20	--	5-20	Shallow	144.11	143.89	10.11	133.78	6.89	137.00
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	11.73	132.47	10.41	133.79
MW-10	18	--	3-18	Shallow	142.56	142.19	9.33	132.86	5.98	136.21
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	9.50	132.29	8.22	133.57
MW-11	18	--	3-18	Shallow	143.77	143.16	9.63	133.53	7.79	135.37
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	15.65	132.00	14.45	133.20
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	14.38	131.85	13.20	133.03
MW-14	20	--	5-20	Shallow	147.05	146.90	13.24	133.66	12.44	134.46
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	15.08	131.80	13.87	133.01
MW-15	18	--	4-19	Shallow	136.13	135.73	5.25	130.48	3.74	131.99
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	3.85	131.74	2.95	132.64
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	3.96	131.73	3.06	132.63
MW-16	19	--	4-19	Shallow	138.74	138.30	7.02	131.28	4.14	134.16
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	6.83	131.55	5.84	132.54
MW-17	28.4	--	13-28	Shallow	142.07	141.66	7.75	133.91	4.11	137.55
MW-18	26.4	--	11-26	Shallow	145.68	145.41	12.65	132.76	10.87	134.54
MW-19	20.15	--	5-20	Shallow	148.47	148.22	14.62	133.60	13.02	135.20
MW-20	15.15	--	5-15	Shallow	148.50	148.19	14.50	133.69	12.87	135.32
MW-21	34.4	--	19-34	Shallow	148.43	147.97	15.12	132.85	13.68	134.29
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	14.93	131.99	13.71	133.21
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	14.29	131.67	13.10	132.86
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	16.28	131.98	14.96	133.30
MW-24	21	--	6-21	Shallow	148.52	147.85	15.69	132.16	14.46	133.39
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	7.59	131.62	6.47	132.74
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	12.19	131.45	11.06	132.58
MW-27	29	--	19 - 29	Shallow	145.93	145.78	12.44	133.34	9.44	136.34
MW-28	29	--	19 - 29	Shallow	146.35	146.12	14.13	131.99	12.95	133.17
MW-29	29	--	19 - 29	Shallow	141.03	140.55	8.60	131.95	7.52	133.03
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	5.92	130.09	5.57	130.44
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	10.32	131.07	9.67	131.72
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	Abandoned	Abandoned		
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	8.42	130.46	7.54	131.34

Notes:

bgs = below ground surface; btoc - below top of casing; H&H - Hart & Hickman; NI = Not Installed; NA = Not Applicable NI - Not installed on the date of the measurement. NM - No measurement collected.

1. Depth to water measured in feet btoc.
2. Top of casing and ground surface elevations for most wells surveyed by Edisto Engineers and Surveyors, Inc. on May 23, 2011 and March 20, 2014. MW-15D1 TOC elevation tied into existing site wells by H&H on April 30, 2012. Monitoring wells MW-24, MW-25D, and MW-26D were surveyed by AECOM on January 26, 2016. Monitoring wells MW-27 through MW-29 and MW-30D through MW-32DR were surveyed by AECOM on May 10, 2017.
3. Vertical positions are referenced to the North American Vertical Datum of 1988 (NAVD88).
4. Information for historic monitoring wells from Table 1 of the RI Workplan (H&H, 2013).

Table 2
Groundwater Quality Indicator Parameters
Delavan Spray Technologies Site
Bamberg, South Carolina

Well	pH (S.U.)	Conductivity (mS/cm)	Temperature (°C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Ferrous Iron (mg/L)
MW-1	4.05	0.034	21.92	7.16	3.42	372.1	NM
MW-2	3.90	0.021	21.89	7.23	4.66	400.1	NM
MW-3	4.05	0.020	19.76	2.99	5.44	344.7	NM
MW-3D	7.43	0.235	22.04	6.90	2.67	157.1	NM
MW-3D1	NS	NS	NS	NS	NS	NS	NS
MW-4	NS	NS	NS	NS	NS	NS	NS
MW-5	3.81	0.021	20.13	10.66	7.25	391.1	NM
MW-6	NS	NS	NS	NS	NS	NS	NS
MW-7	3.59	0.016	22.17	9.50	6.94	396.2	NM
MW-8	4.17	0.050	22.62	5.21	2.99	367.3	NM
MW-9	3.67	0.025	16.52	12.81	3.08	335.0	NM
MW-9D	NS	NS	NS	NS	NS	NS	NS
MW-10	3.73	0.023	15.98	4.55	0.33	169.8	NM
MW-10D	NS	NS	NS	NS	NS	NS	NS
MW-11	NS	NS	NS	NS	NS	NS	NS
MW-12D	8.90	0.214	18.89	1.79	4.90	110.7	NM
MW-13D	7.70	0.227	19.94	3.40	4.19	159.4	NM
MW-14	3.96	0.024	19.33	6.29	5.95	413.8	NM
MW-14D	7.55	0.234	21.81	3.99	0.33	166.0	NM
MW-15	3.75	0.312	19.88	4.86	0.16	156.6	NM
MW-15D	NS	NS	NS	NS	NS	NS	NS
MW-15D1	NS	NS	NS	NS	NS	NS	NS
MW-16	3.73	0.028	19.30	10.91	1.39	188.2	NM
MW-16D	7.33	0.282	19.60	4.89	4.30	109.3	NM
MW-17	NS	NS	NS	NS	NS	NS	NS
MW-18	NS	NS	NS	NS	NS	NS	NS
MW-19	4.17	0.105	21.93	9.73	1.38	391.2	NM
MW-20	3.98	0.028	21.14	4.01	3.08	390.7	NM
MW-21	3.99	0.022	21.20	7.67	0.22	371.0	NM
MW-21D	7.42	0.233	21.72	3.55	0.20	-44.8	NM
MW-22D	7.55	0.263	18.52	4.00	2.77	166.8	NM
MW-23D	7.34	0.308	20.77	6.98	1.66	165.7	NM
MW-24	3.56	0.016	20.59	5.03	6.03	406.2	NM
MW-25D	7.32	0.266	19.64	5.60	2.73	182.3	NM
MW-26D	7.31	0.273	19.22	3.73	2.50	183.3	NM
MW-27	4.31	0.034	21.60	3.89	5.50	354.1	NM
MW-28	7.10	0.336	22.36	10.82	1.60	176.0	NM
MW-29	5.33	0.060	20.51	19.49	1.02	260.5	NM
MW-30D	7.24	0.264	18.09	8.42	3.16	157.1	NM
MW-31D	7.31	0.250	17.84	6.05	3.53	253.5	NM
MW-32D	Abandoned						
MW-32DR	7.36	0.276	19.28	9.66	1.08	169.7	NM

Notes:

°C - degrees Celsius

mS/cm - milliSiemens per centimeter

ORP - oxidation-reduction potential

NS - not sampled

S.U. - standard units

mg/L - milligrams per liter

mV - millivolts

NM - not measured

NTUs - Nephelometric Turbidity Units

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-1 FA54151-2 5/9/2018	MW-2 FA54151-9 5/10/2018	MW-3 FA54121-21 5/9/2018	MW-3D FA54121-22 5/9/2018	MW-5 FA54121-24 5/9/2018
Volatile Organic Compounds by Method 8260B (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 1.2	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 1.5	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 2.3	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 1.7	< 0.34
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32	6.7	< 0.32
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 1.6	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 2.1	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 2	< 10	< 2
2-Hexanone	—	< 2	< 2	< 2	< 10	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 5	< 1
Acetone	—	< 10	< 10	< 10	< 50	< 10
Benzene	5	< 0.31	< 0.31	< 0.31	< 1.6	< 0.31
Bromodichloromethane	80 ¹	< 0.24	< 0.24	< 0.24	< 1.2	< 0.24
Bromoform	80 ¹	< 0.41	< 0.41	< 0.41	< 2	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	< 2.7	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 1.8	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 1	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 3.3	< 0.67
Chloroform	80 ¹	< 0.3	< 0.3	< 0.3	< 1.5	< 0.3
cis-1,2-Dichloroethylene	70	12.1	< 0.28	< 0.28	7	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 1.5	< 0.29
Dibromochloromethane	80 ¹	< 0.28	< 0.28	< 0.28	< 1.4	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 1.8	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 2.9	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 2.5	< 0.5
Methylene Chloride	5	< 2	< 2	< 2	< 10	< 2
Styrene	100	< 0.22	< 0.22	< 0.22	< 1.1	< 0.22
Tetrachloroethylene	5	298	1.3	95.2	299	27.7
Toluene	1000	< 0.3	< 0.3	< 0.3	< 1.5	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 1.1	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 1.1	< 0.21
Trichloroethylene	5	8.1	< 0.35	1.2	7.4	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 2	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 3.6	< 0.72

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-7 FA54121-26 5/9/2018	MW-8 FA54121-23 5/9/2018	MW-9 FA54121-20 5/9/2018	MW-10 FA54121-19 5/9/2018	MW-12D FA54121-16 5/8/2018
Volatile Organic Compounds by Method 8260B (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 1.2	0.26 J//	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 1.5	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 2.3	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 1.7	< 0.34	< 0.34
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 1.6	2.4	0.55 J//
1,2-Dichloroethane	5	< 0.31	< 0.31	< 1.6	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 2.1	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 10	< 2	< 2
2-Hexanone	—	< 2	< 2	< 10	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 5	< 1	< 1
Acetone	—	< 10	< 10	< 50	< 10	< 10
Benzene	5	< 0.31	< 0.31	< 1.6	< 0.31	< 0.31
Bromodichloromethane	80 ¹	< 0.24	< 0.24	< 1.2	< 0.24	< 0.24
Bromoform	80 ¹	< 0.41	< 0.41	< 2	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 2.7	< 0.53	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 1.8	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 1	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 3.3	< 0.67	< 0.67
Chloroform	80 ¹	< 0.3	< 0.3	< 1.5	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	< 0.28	0.9 J//	5.9	136	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 1.5	< 0.29	< 0.29
Dibromochloromethane	80 ¹	< 0.28	< 0.28	< 1.4	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 1.8	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 2.9	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 2.5	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 2	< 10	< 2	< 2
Styrene	100	< 0.22	< 0.22	< 1.1	< 0.22	< 0.22
Tetrachloroethylene	5	< 0.22	81.6	466	180	33.5
Toluene	1000	< 0.3	< 0.3	< 1.5	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 1.1	0.42 J//	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 1.1	< 0.21	< 0.21
Trichloroethylene	5	< 0.35	10.4	46.5	98.6	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 2	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 3.6	< 0.72	< 0.72

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-13D FA54121-17 5/8/2018	MW-14 FA54151-6 5/10/2018	MW-14D FA54151-7 5/10/2018	MW-15 FA54121-2 5/7/2018	MW-16 FA54121-3 5/7/2018
Volatile Organic Compounds by Method 8260B (µg/L)						
1,1,1-Trichloroethane	200	0.92 J//	< 0.25	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	7	2.9	< 0.32	1.1	< 0.32	< 0.32
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 2	< 2	< 2
2-Hexanone	—	< 2	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 1	< 1
Acetone	—	< 10	< 10	< 10	< 10	< 10
Benzene	5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Bromodichloromethane	80 ¹	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromoform	80 ¹	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	< 0.53	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	80 ¹	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	0.61 J//	< 0.28	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	80 ¹	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 2
Styrene	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	5	92.5	1.3	59.9	< 0.22	< 0.22
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethylene	5	< 0.35	< 0.35	0.56 J//	< 0.35	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-16D FA54121-4 5/7/2018	MW-19 FA54151-3 5/9/2018	MW-20 FA54151-4 5/9/2018	MW-21 FA54151-10 5/10/2018	MW-21D FA54151-5 5/9/2018
Volatile Organic Compounds by Method 8260B (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	69.5 J//	< 1.2	< 62	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 75	< 1.5	< 75	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 120	< 2.3	< 120	< 0.47
1,1-Dichloroethane	—	< 0.34	< 85	< 1.7	< 85	< 0.34
1,1-Dichloroethylene	7	< 0.32	< 81	< 1.6	< 81	1.6
1,2-Dichloroethane	5	< 0.31	< 78	< 1.6	< 78	< 0.31
1,2-Dichloropropane	5	< 0.43	< 110	< 2.1	< 110	< 0.43
2-Butanone (MEK)	—	< 2	< 500	< 10	< 500	< 2
2-Hexanone	—	< 2	< 500	< 10	< 500	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 250	< 5	< 250	< 1
Acetone	—	< 10	< 2,500	< 50	< 2,500	< 10
Benzene	5	< 0.31	< 78	< 1.6	< 78	< 0.31
Bromodichloromethane	80 ¹	< 0.24	< 61	< 1.2	< 61	< 0.24
Bromoform	80 ¹	< 0.41	< 100	< 2	< 100	< 0.41
Carbon Disulfide	—	< 0.53	< 130	< 2.7	< 130	< 0.53
Carbon Tetrachloride	5	< 0.36	< 89	< 1.8	< 89	< 0.36
Chlorobenzene	100	< 0.2	< 50	< 1	< 50	< 0.2
Chloroethane	—	< 0.67	< 170	< 3.3	< 170	< 0.67
Chloroform	80 ¹	< 0.3	92.4 J//	< 1.5	98.8 J/B/K	< 0.3
cis-1,2-Dichloroethylene	70	< 0.28	< 69	3.3 J//	777	0.52 J//
cis-1,3-Dichloropropene	—	< 0.29	< 73	< 1.5	< 73	< 0.29
Dibromochloromethane	80 ¹	< 0.28	< 69	< 1.4	< 69	< 0.28
Ethylbenzene	700	< 0.36	< 89	< 1.8	< 89	< 0.36
Methyl Bromide	—	< 0.59	< 150	< 2.9	< 150	< 0.59
Methyl Chloride	—	< 0.5	< 130	< 2.5	< 130	< 0.5
Methylene Chloride	5	< 2	< 500	< 10	< 500	< 2
Styrene	100	< 0.22	< 56	< 1.1	< 56	< 0.22
Tetrachloroethylene	5	< 0.22	18,700	388	25,600	109
Toluene	1000	< 0.3	< 75	< 1.5	< 75	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 55	< 1.1	< 55	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 54	< 1.1	< 54	< 0.21
Trichloroethylene	5	< 0.35	< 86	3.9 J//	311	< 0.35
Vinyl Chloride	2	< 0.41	< 100	< 2	< 100	< 0.41
Xylene (total)	10000	< 0.72	< 180	< 3.6	< 180	< 0.72

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-22D FA54121-7 5/8/2018	MW-23D FA54121-18 5/8/2018	MW-24 FA54121-25 5/9/2018	MW-25D FA54121-10 5/8/2018	MW-26D FA54121-9 5/8/2018
Volatile Organic Compounds by Method 8260B (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 5	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 6	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 9.3	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 6.8	< 0.34	< 0.34
1,1-Dichloroethylene	7	2.9	< 0.32	< 6.4	3.8	2
1,2-Dichloroethane	5	< 0.31	< 0.31	< 6.2	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 8.5	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 40	< 2	< 2
2-Hexanone	—	< 2	< 2	< 40	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 20	< 1	< 1
Acetone	—	< 10	< 10	< 200	< 10	< 10
Benzene	5	< 0.31	< 0.31	< 6.2	< 0.31	< 0.31
Bromodichloromethane	80 ¹	< 0.24	< 0.24	< 4.8	< 0.24	< 0.24
Bromoform	80 ¹	< 0.41	< 0.41	< 8.1	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 11	< 0.53	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 7.1	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 4	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 13	< 0.67	< 0.67
Chloroform	80 ¹	< 0.3	< 0.3	< 6	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	0.93 J//	< 0.28	43.5	1.4	1.2
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 5.8	< 0.29	< 0.29
Dibromochloromethane	80 ¹	< 0.28	< 0.28	< 5.5	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 7.1	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 12	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 10	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 2	< 40	< 2	< 2
Styrene	100	< 0.22	< 0.22	< 4.4	< 0.22	< 0.22
Tetrachloroethylene	5	106	< 0.22	2,050	123	88.6
Toluene	1000	< 0.3	< 0.3	< 6	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 4.4	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 4.3	< 0.21	< 0.21
Trichloroethylene	5	0.79 J//	< 0.35	< 6.9	0.98 J//	1.2
Vinyl Chloride	2	< 0.41	< 0.41	< 8.2	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 14	< 0.72	< 0.72

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-27 FA54121-14 5/8/2018	MW-28 FA54121-15 5/8/2018	MW-29 FA54121-13 5/8/2018	MW-30D FA54121-6 5/8/2018	MW-31D FA54121-5 5/8/2018
Volatile Organic Compounds by Method 8260B (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32	3.1	6
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 2	< 2	< 2
2-Hexanone	—	< 2	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 1	< 1
Acetone	—	< 10	< 10	< 10	< 10	< 10
Benzene	5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Bromodichloromethane	80 ¹	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromoform	80 ¹	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	0.65 J//	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	80 ¹	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28	0.97 J//	2.5
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	80 ¹	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 2
Styrene	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	5	< 0.22	< 0.22	< 0.22	86.7	181
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethylene	5	< 0.35	< 0.35	< 0.35	1.1	1
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72

Table 3
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-32DR FA54121-11 5/8/2018
Volatile Organic Compounds by Method 8260B (µg/L)		
1,1,1-Trichloroethane	200	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3
1,1,2-Trichloroethane	5	< 0.47
1,1-Dichloroethane	—	< 0.34
1,1-Dichloroethylene	7	0.97 J//
1,2-Dichloroethane	5	< 0.31
1,2-Dichloropropane	5	< 0.43
2-Butanone (MEK)	—	< 2
2-Hexanone	—	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1
Acetone	—	< 10
Benzene	5	< 0.31
Bromodichloromethane	80 ¹	< 0.24
Bromoform	80 ¹	< 0.41
Carbon Disulfide	—	< 0.53
Carbon Tetrachloride	5	< 0.36
Chlorobenzene	100	< 0.2
Chloroethane	—	< 0.67
Chloroform	80 ¹	0.56 J//
cis-1,2-Dichloroethylene	70	0.55 J//
cis-1,3-Dichloropropene	—	< 0.29
Dibromochloromethane	80 ¹	< 0.28
Ethylbenzene	700	< 0.36
Methyl Bromide	—	< 0.59
Methyl Chloride	—	< 0.5
Methylene Chloride	5	< 2
Styrene	100	< 0.22
Tetrachloroethylene	5	30.4
Toluene	1000	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22
trans-1,3-Dichloropropene	—	< 0.21
Trichloroethylene	5	0.55 J//
Vinyl Chloride	2	< 0.41
Xylene (total)	10000	< 0.72

Notes:

µg/L - micrograms per liter (parts per billion)

USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (March, 2018).

¹ 1998 Final Rule for Disinfectants and Disinfection By-products. The total for trihalomethanes (THM) is 80 µg/L.

— - Indicates No Standard (for screening criteria).

Bold font and shading indicate the concentration is detected.

Bold outline indicates the concentration exceeds the MCL.

South Carolina Department of Health and Environmental Control (SCDHEC) R.61-68 Water Classifications and Standards (June 27, 2014) were also identified for the list of detected chemicals in groundwater. In each case, however, they were the same values as the USEPA MCLs.

See Table 6 for explanation of data qualifiers.

Table 4
Summary of Analytical Results for Investigation-Derived Waste Samples
Delavan Spray Technologies Site
Bamberg, South Carolina

	USEPA Toxicity Characteristic	IDW-1 FA54151-11 5/10/2018
Volatile Organic Compounds by Method 8260B (µg/L)		
1,1,1-Trichloroethane	—	< 1.2
1,1,2,2-Tetrachloroethane	—	< 1.5
1,1,2-Trichloroethane	—	< 2.3
1,1-Dichloroethane	—	< 1.7
1,1-Dichloroethylene	700	< 1.6
1,2-Dichloroethane	500	< 1.6
1,2-Dichloropropane	—	< 2.1
2-Butanone (MEK)	200,000	< 10
2-Hexanone	—	< 10
4-Methyl-2-pentanone (MIBK)	—	< 5
Acetone	—	< 50
Benzene	500	< 1.6
Bromodichloromethane	—	< 1.2
Bromoform	—	< 2
Carbon Disulfide	—	< 2.7
Carbon Tetrachloride	500	< 1.8
Chlorobenzene	100,000	< 1
Chloroethane	—	< 3.3
Chloroform	6,000	3.3 JB/B/K
cis-1,2-Dichloroethylene	—	13.4
cis-1,3-Dichloropropene	—	< 1.5
Dibromochloromethane	—	< 1.4
Ethylbenzene	—	< 1.8
Methyl Bromide	—	< 2.9
Methyl Chloride	—	< 2.5
Methylene Chloride	—	< 10
Styrene	—	< 1.1
Tetrachloroethylene	700	400
Toluene	—	< 1.5
trans-1,2-Dichloroethylene	—	< 1.1
trans-1,3-Dichloropropene	—	< 1.1
Trichloroethylene	500	5.8
Vinyl Chloride	200	< 2
Xylene (total)	—	< 3.6
Semivolatile Organic Compounds by Method 8270D (µg/L)		
1,2,4-Trichlorobenzene	—	< 1
1,2-Dichlorobenzene	—	< 0.49
1,3-Dichlorobenzene	—	< 0.49
1,4-Dichlorobenzene	7,500	< 0.49
2,2'-Oxybis(1-chloropropane)	—	< 0.73
2,4,5-Trichlorophenol	400,000	< 0.72
2,4,6-Trichlorophenol	2,000	< 0.73
2,4-Dichlorophenol	—	< 0.81
2,4-Dimethylphenol	—	< 0.72
2,4-Dinitrophenol	—	< 4.9
2,4-Dinitrotoluene	130	< 0.79
2,6-Dinitrotoluene	—	< 0.69
2-Chloronaphthalene	—	< 0.49
2-Chlorophenol	—	< 0.61
2-Methylnaphthalene	—	< 0.58
2-Methylphenol	200,000	< 0.54
2-Nitroaniline	—	< 1.8
2-Nitrophenol	—	< 0.83
3&4-Methylphenol	200,000	< 0.95
3,3'-Dichlorobenzidine	—	< 0.62
3-Nitroaniline	—	< 0.85
4,6-Dinitro-o-cresol	—	< 1.9
4-Bromophenyl Phenyl Ether	—	< 0.82
4-Chloro-3-methyl Phenol	—	< 0.58
4-Chloroaniline	—	< 0.61
4-Chlorophenyl Phenyl Ether	—	< 0.52
4-Nitroaniline	—	< 1.1

Table 4
Summary of Analytical Results for Investigation-Derived Waste Samples
Delavan Spray Technologies Site
Bamberg, South Carolina

	USEPA Toxicity Characteristic	IDW-1 FA54151-11 5/10/2018
Semivolatile Organic Compounds by Method 8270D (µg/L)		
4-Nitrophenol	—	< 4.9
Acenaphthene	—	< 0.61
Acenaphthylene	—	< 0.62
Anthracene	—	< 0.77
Benzo(a)anthracene	—	< 0.74
Benzo(a)pyrene	—	< 0.76
Benzo(b)fluoranthene	—	< 0.75
Benzo(g,h,i)perylene	—	< 0.8
Benzo(k)fluoranthene	—	< 0.83
Benzoic Acid	—	< 9.7 /R/c
Benzyl Alcohol	—	< 0.6
bis(2-Chloroethoxy)methane	—	< 0.79
bis(2-Chloroethyl)ether	—	< 0.71
bis(2-Ethylhexyl)phthalate	—	< 0.97
Butyl Benzyl Phthalate	—	< 0.97
Carbazole	—	< 0.58
Chrysene	—	< 0.83
Di-n-butyl Phthalate	—	< 0.97
Di-n-octyl Phthalate	—	< 0.97
Dibenzo(a,h)anthracene	—	< 0.78
Dibenzofuran	—	< 0.58
Diethyl Phthalate	—	< 0.97
Dimethyl Phthalate	—	< 0.97
Fluoranthene	—	< 0.54
Fluorene	—	< 0.68
Hexachlorobenzene	130	< 0.67
Hexachlorobutadiene	500	< 0.49
Hexachlorocyclopentadiene	—	< 1.8
Hexachloroethane	3,000	< 1.6
Indeno(1,2,3-cd)pyrene	—	< 0.69
Isophorone	—	< 0.75
N-Nitrosodi-n-propylamine	—	< 0.65
N-Nitrosodiphenylamine	—	< 0.78
Naphthalene	—	< 0.49
Nitrobenzene	2,000	< 0.91
Pentachlorophenol	100,000	< 4.9
Phenanthrene	—	< 0.84
Phenol	—	< 0.49
Pyrene	—	< 0.66
Metals by Method 6010C/7470B (µg/L)		
Antimony	—	< 1
Arsenic	5,000	< 1.3
Beryllium	—	< 0.2
Cadmium	1,000	< 0.2
Chromium	5,000	3.9 J/I
Copper	—	< 1
Lead	5,000	< 1.1
Mercury	200	< 0.03
Nickel	—	< 0.4
Selenium	1,000	< 2.9
Silver	5,000	< 0.7
Thallium	—	< 1.4
Zinc	—	7.7 J/I

Notes:

— - No Standard

IDW - Investigation Derived Waste

µg/L - micrograms per liter (parts per billion)

USEPA Toxicity Characteristic - United States Environmental Protection

Agency Maximum Concentration of Contaminants for the Toxicity

Characteristic (40CFR§261.24 Toxicity Characteristic, July 1, 2007).

Bold font and shading indicates the analyte was detected.

See Table 6 for explanation of data qualifiers.

Table 5
Summary of QA/QC Sample Results
Delavan Spray Technologies Site
Bamberg, South Carolina

Field Duplicates

Sample ID Lab Sample ID Date Collected	MW-14D FA54151-7 5/10/2018	MW-14D-A FA54151-8 5/10/2018	Relative Percent Difference
Volatile Organic Compounds by Method 8260B (µg/L)			
1,1,1-Trichloroethane	< 0.25	< 0.25	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	NC
1,1-Dichloroethane	< 0.34	< 0.34	NC
1,1-Dichloroethylene	1.1	1.1	0
1,2-Dichloroethane	< 0.31	< 0.31	NC
1,2-Dichloropropane	< 0.43	< 0.43	NC
2-Butanone (MEK)	< 2	< 2	NC
2-Hexanone	< 2	< 2	NC
4-Methyl-2-pentanone (MIBK)	< 1	< 1	NC
Acetone	< 10	< 10	NC
Benzene	< 0.31	< 0.31	NC
Bromodichloromethane	< 0.24	< 0.24	NC
Bromoform	< 0.41	< 0.41	NC
Carbon Disulfide	< 0.53	< 0.53	NC
Carbon Tetrachloride	< 0.36	< 0.36	NC
Chlorobenzene	< 0.2	< 0.2	NC
Chloroethane	< 0.67	< 0.67	NC
Chloroform	< 0.3	< 0.3	NC
cis-1,2-Dichloroethylene	0.61 J//	0.57 J//	NC
cis-1,3-Dichloropropene	< 0.29	< 0.29	NC
Dibromochloromethane	< 0.28	< 0.28	NC
Ethylbenzene	< 0.36	< 0.36	NC
Methyl Bromide	< 0.59	< 0.59	NC
Methyl Chloride	< 0.5	< 0.5	NC
Methylene Chloride	< 2	< 2	NC
Styrene	< 0.22	< 0.22	NC
Tetrachloroethylene	59.9	64.4	7.2
Toluene	< 0.3	< 0.3	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	NC
Trichloroethylene	0.56 J//	0.51 J//	NC
Vinyl Chloride	< 0.41	< 0.41	NC
Xylene (total)	< 0.72	< 0.72	NC

Table 5
Summary of QA/QC Sample Results
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	MW-22D FA54121-7 5/8/2018	MW-22D-A FA54121-8 5/8/2018	Relative Percent Difference
Volatile Organic Compounds by Method 8260B (µg/L)			
1,1,1-Trichloroethane	< 0.25	< 0.25	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	NC
1,1-Dichloroethane	< 0.34	< 0.34	NC
1,1-Dichloroethylene	2.9	2.9	0
1,2-Dichloroethane	< 0.31	< 0.31	NC
1,2-Dichloropropane	< 0.43	< 0.43	NC
2-Butanone (MEK)	< 2	< 2	NC
2-Hexanone	< 2	< 2	NC
4-Methyl-2-pentanone (MIBK)	< 1	< 1	NC
Acetone	< 10	< 10	NC
Benzene	< 0.31	< 0.31	NC
Bromodichloromethane	< 0.24	< 0.24	NC
Bromoform	< 0.41	< 0.41	NC
Carbon Disulfide	< 0.53	< 0.53	NC
Carbon Tetrachloride	< 0.36	< 0.36	NC
Chlorobenzene	< 0.2	< 0.2	NC
Chloroethane	< 0.67	< 0.67	NC
Chloroform	< 0.3	< 0.3	NC
cis-1,2-Dichloroethylene	0.93 J//	0.9 J//	NC
cis-1,3-Dichloropropene	< 0.29	< 0.29	NC
Dibromochloromethane	< 0.28	< 0.28	NC
Ethylbenzene	< 0.36	< 0.36	NC
Methyl Bromide	< 0.59	< 0.59	NC
Methyl Chloride	< 0.5	< 0.5	NC
Methylene Chloride	< 2	< 2	NC
Styrene	< 0.22	< 0.22	NC
Tetrachloroethylene	106	99	6.8
Toluene	< 0.3	< 0.3	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	NC
Trichloroethylene	0.79 J//	0.91 J//	NC
Vinyl Chloride	< 0.41	< 0.41	NC
Xylene (total)	< 0.72	< 0.72	NC

Table 5
Summary of QA/QC Sample Results
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	MW-32DR FA54121-11 5/8/2018	MW-32DR-A FA54121-12 5/8/2018	Relative Percent Difference
Volatile Organic Compounds by Method 8260B (µg/L)			
1,1,1-Trichloroethane	< 0.25	< 0.25	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	NC
1,1-Dichloroethane	< 0.34	< 0.34	NC
1,1-Dichloroethylene	0.97 J//	0.82 J//	NC
1,2-Dichloroethane	< 0.31	< 0.31	NC
1,2-Dichloropropane	< 0.43	< 0.43	NC
2-Butanone (MEK)	< 2	< 2	NC
2-Hexanone	< 2	< 2	NC
4-Methyl-2-pentanone (MIBK)	< 1	< 1	NC
Acetone	< 10	< 10	NC
Benzene	< 0.31	< 0.31	NC
Bromodichloromethane	< 0.24	< 0.24	NC
Bromoform	< 0.41	< 0.41	NC
Carbon Disulfide	< 0.53	< 0.53	NC
Carbon Tetrachloride	< 0.36	< 0.36	NC
Chlorobenzene	< 0.2	< 0.2	NC
Chloroethane	< 0.67	< 0.67	NC
Chloroform	0.56 J//	0.68 J//	NC
cis-1,2-Dichloroethylene	0.55 J//	0.52 J//	NC
cis-1,3-Dichloropropene	< 0.29	< 0.29	NC
Dibromochloromethane	< 0.28	< 0.28	NC
Ethylbenzene	< 0.36	< 0.36	NC
Methyl Bromide	< 0.59	< 0.59	NC
Methyl Chloride	< 0.5	< 0.5	NC
Methylene Chloride	< 2	< 2	NC
Styrene	< 0.22	< 0.22	NC
Tetrachloroethylene	30.4	24.4	21.9
Toluene	< 0.3	< 0.3	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	NC
Trichloroethylene	0.55 J//	0.48 J//	NC
Vinyl Chloride	< 0.41	< 0.41	NC
Xylene (total)	< 0.72	< 0.72	NC

Notes:

-A - Indicates a field duplicate sample.

NC - Not Calculated

µg/L - micrograms per liter (parts per billion)

Bold font and shading indicate the concentration is detected.

See Table 6 for explanation of data qualifiers.

Table 5
Summary of QA/QC Sample Results
Delavan Spray Technologies Site
Bamberg, South Carolina

Trip Blanks

Sample ID Lab Sample ID Date Collected	TRIP BLANK FA54121-1 5/7/2018	TRIP BLANK FA54151-1 5/9/2018
Volatile Organic Compounds by Method 8260B (µg/L)		
1,1,1-Trichloroethane	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3
1,1,2-Trichloroethane	< 0.47	< 0.47
1,1-Dichloroethane	< 0.34	< 0.34
1,1-Dichloroethylene	< 0.32	< 0.32
1,2-Dichloroethane	< 0.31	< 0.31
1,2-Dichloropropane	< 0.43	< 0.43
2-Butanone (MEK)	< 2	< 2
2-Hexanone	< 2	< 2
4-Methyl-2-pentanone (MIBK)	< 1	< 1
Acetone	< 10	< 10
Benzene	< 0.31	< 0.31
Bromodichloromethane	< 0.24	< 0.24
Bromoform	< 0.41	< 0.41
Carbon Disulfide	< 0.53	< 0.53
Carbon Tetrachloride	< 0.36	< 0.36
Chlorobenzene	< 0.2	< 0.2
Chloroethane	< 0.67	< 0.67
Chloroform	< 0.3	< 0.3
cis-1,2-Dichloroethylene	< 0.28	< 0.28
cis-1,3-Dichloropropene	< 0.29	< 0.29
Dibromochloromethane	< 0.28	< 0.28
Ethylbenzene	< 0.36	< 0.36
Methyl Bromide	< 0.59	< 0.59
Methyl Chloride	< 0.5	< 0.5
Methylene Chloride	< 2	< 2
Styrene	< 0.22	< 0.22
Tetrachloroethylene	< 0.22	< 0.22
Toluene	< 0.3	< 0.3
trans-1,2-Dichloroethylene	< 0.22	< 0.22
trans-1,3-Dichloropropene	< 0.21	< 0.21
Trichloroethylene	< 0.35	< 0.35
Vinyl Chloride	< 0.41	< 0.41
Xylene (total)	< 0.72	< 0.72

Notes:

µg/L - micrograms per liter (parts per billion)

Table 6
Definitions of Data Qualifiers
Delavan Spray Technologies Site
Bamberg, South Carolina

<u>Modifier</u>	<u>Description</u>
<	Indicates not detected at the reporting limit indicated.
"/"	Separates the laboratory added data qualifiers from the validation data qualifiers. The laboratory added data qualifiers precede the first "/". The result qualifiers follow the first "/", and the analysis qualifiers follow the second "/". The result qualifiers are a product of the data validation process, and the analysis qualifiers define the type of QC excursion.

Laboratory Data Qualifiers

<u>Qualifier</u>	<u>Description</u>
B	Indicates analyte found in associated method blank.
J	Estimated concentration above the method detection limit and below the reporting limit.

Result Data Qualifiers

<u>Qualifier</u>	<u>Description</u>
B	The analyte was found in an associated blank as well as in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Analysis Data Qualifiers

<u>Qualifier</u>	<u>Description</u>
c	Laboratory control recovery below the established criteria.
K	An analyte detected in the sample at a concentration less than or equal to five times the concentration detected in the associated method blank. Professional judgment must be used to determine if the detect is site-related.

APPENDIX A

FIELD DOCUMENTATION

Daily Tailgate Safety Meeting Logs
Water Level Data Summary
Equipment Calibration Logs
Chain of Custody Forms
Field Data Information Logs for Groundwater Sampling
IDW Management Form
Log Books

WATER LEVEL DATA SUMMARY

PROJECT: UTC Delavan Spray Technologies Site

JOB NUMBER: 60314964

LOCATION: Bamberg, South Carolina

DATE: 5-7-2018

CLIENT: UTC

MEASURED BY: Randy Morgan

SURVEY DATUM:

MEASURING DEVICE: electronic water level indicator

MEASUREMENT POINT IDENTIFICATION	TOC ELEVATION (FT MSL)	DEPTH TO BOTTOM OF WELL (FT BTOC)	POINT OF MEASURE	DEPTH TO WATER (FT BTOC)	PID well Head	COMMENTS	PID Breathing Zone
MW-1				12.42	0.2		0.0
MW-2			(12.42)	12.42	0.0		0.0
MW-3				13.86	0.0		0.0
MW-3D				14.93	0.0		0.0
MW-3D1				14.74	0.0		0.0
MW-4				8.57	0.0		0.0
MW-5				8.90	0.0		0.0
MW-6				6.69	0.0		0.0
MW-7				14.07	0.0		0.0
MW-8				11.68	0.0		0.0
MW-9				6.89	2.3		0.0
MW-9D				10.41	0.0		0.0
MW-10				5.98	1.2		0.0
MW-10D				8.22	0.0		0.0
MW-11				7.79	0.0		0.0
MW-12D				14.45	0.0		0.0
MW-13D				13.20	0.0		0.0
MW-14				12.44	0.0		0.0
MW-14D				13.87	2.0		0.0
MW-15				3.74	0.0		0.0
MW-15D				2.95	0.0		0.0
MW-15D1				3.06	0.0		0.0
MW-16				4.14	0.0		0.0
MW-16D				5.84	0.0		0.0
MW-17				4.11	0.0		0.0
MW-18				10.87	0.0		0.0

Notes:

BTOC - Below Top of Casing

MSL - Mean Sea Level

TOC - Top of Casing

LLMH - Lower Lip of Man Hole

MEASURING DEVICE: electronic water level indicator

LLMH - Lower Lip of Man Hole

YSI 556 MPS / Water Quality Calibration Certificate

AECOMCal Standard Temp, LAB, C : 21.2 Temp, FIELD, C :

Conductivity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
1413 UMHO/CM @ 25°C	7710477	11/19	1278		(+/- .5%)

PH 4.00	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7612194	12/18	4.00		(+/- 0.2 units)

PH 7.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7612195	1/19	7.01		(+/- 0.2 units)

PH 10.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°C	7701115	1/19	10.04		(+/- 0.2 units)

ORP ZOBELLS	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
231.0 MV @ 25°C	7712081	3/18	237.5		(+/- 20 MV)

Dissolved Oxygen (Saturated Air)	Post-Cal, LAB	Temp, C	% Saturation	mg/L	Acceptable Range (+/- 2%) / (+/- 2%)
		22.53	97.4	8.43	
	Post-Cal, FIELD	Temp, C	% Saturation	mg/L	

New DO Membrane

☐ Yes ☒ No

Do Cap Color

☐ Black ☒ Blue ☐ YellowModel 556 S/N 08L101000 Cable 16K08

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
.02 NTU	71101	NOV-19	0.02		(.0196 to .0204)
10 NTU	70823	AUG-19	10.06		(9.8 to 10.2)
1000 NTU	71103	NOV-19	1002		(970 to 1031)

Model Micro TPW S/N 200703026Calibrated By Eric Olson Date of Calibration 5-4-18Project Name UTC Project number 60314964.17Signed : [Signature]

YSI 556 MPS / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp, LAB, C :	20.89	Temp, FIELD, C :		
Conductivity 1413 UMHO/CM @ 25°C	Lot #	7710477	Expiration	11/19	Post-Cal, LAB 1278
					Post-Cal, FIELD
					Acceptable Range (+/- .5%)
PH 4.00 @ 25°C	Lot #	7612194	Expiration	12/18	Post-Cal, LAB 4.00
					Post-Cal, FIELD
					Acceptable Range (+/- 0.2 units)
PH 7.01 @ 25°C	Lot #	7612195	Expiration	1/19	Post-Cal, LAB 7.01
					Post-Cal, FIELD
					Acceptable Range (+/- 0.2 units)
PH 10.01 @ 25°C	Lot #	7701115	Expiration	1/19	Post-Cal, LAB 10.02
					Post-Cal, FIELD
					Acceptable Range (+/- 0.2 units)
ORP ZOBELLS 231.0 MV @ 25°C	Lot #	7712081	Expiration	3/18	Post-Cal, LAB 237.5
					Post-Cal, FIELD
					Acceptable Range (+/- 20 MV)

Dissolved Oxygen (Saturated Air)	Post-Cal, LAB	Temp, C	% Saturation	mg/L	Acceptable Range (+/- 2%) / (+/- 2%)
		22.58	97.2	8.40	
	Post-Cal, FIELD	Temp, C	% Saturation	mg/L	

New DO Membrane

☐ Yes ☒ No

Do Cap Color

☐ Black ☒ Blue ☐ Yellow

Model 556 S/N 0541116AG Cable 16208

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
.02 NTU	60601	JUN-18	0.02		(.0196 to .0204)
10 NTU	70823	AUG-19	10.08		(9.8 to 10.2)
1000 NTU	60603	JUN-18	1002		(970 to 1031)

Model Micro TPW S/N 200711199

Calibrated By Eric Olson Date of Calibration 5-4-18

Project Name UTR Project number 60314964

Signed :

Photo / Flame-Ionization Detector Calibration Certificate



Cal Standard

PID	Lot #	Expiration	Post-Cal Reading	Acceptable Range
Isobutylene	KBG-248-100	10/20	100.4	98 - 102

100 ppm ▼

FID	Lot #	Expiration	Post-Cal Reading	Acceptable Range
Methane		N/A		98 - 102

100 ppm ▼

Pump Flow mL/min	Acceptable Range
375	350 - 450

Model	MiniRae 3K	▼	S/N	592-920986	▼
Lamp	10.6	▼			

Project Name UTC

Project # 60314964.17

Calibrated By Eric Olson ▼

Date of Calibration 4-19-18

Signed: Eric Olson

Project Name: UTC Deloren
 Project Number: _____
 Calibrated By: Randy Moriya
 Signature: Randy Moriya

YSI 556 SN: 084101000
 Turbidimeter Model/SN: MicroTPW 200703026
 Additional Equipment/SN: _____
 Date: 5-7-2018

Operation Notes:

1) Turn meter on in Run mode and allow to warm up 10-15 minutes prior to calibration. 2) Observe DO% for 2-3 minutes when meter is initially turned on 3) The unit should display decreasing values until it is stabilized near-100% 4) If the meter does not stabilize at/near 100%, indicates the D.O. sensor requires maintenance

These values should be keyed in when calibrating a water quality meter. Be sure to use the temperature of the standards not ambient temperature and the temperature sensor is submerged in solution.

Table 1: Calibration Values At Various Temperatures					
Temp., C	PH 4	PH 7	PH 10	Conductivity	ORP
5	4.00	7.07	10.19	896.00	257.00
10	4.00	7.06	10.16	1020.00	250.50
15	4.00	7.04	10.10	1147.00	244.00
20	4.00	7.02	10.05	1278.00	237.50
25	4.00	7.01	10.01	1413.00	231.00
30	4.00	6.99	9.96	1548.00	224.50

mm Hg = Millimeters of Mercury. Note that the YSI 556 uses this information ONLY when the DO calibration is being done. After calibration is complete it no longer corrects for pressure change. Verify the meter is correct for your altitude when calibrating.

Table 2: Atmospheric Pressure / Altitude Table					
Altitude feet (asl)	Pressure (mmHG)	Altitude feet (asl)	Pressure (mmHG)	Altitude feet (asl)	Pressure (mmHG)
0	760	1126	730	2290	699
278	752	1413	722	2587	692
558	745	1703	714	2887	684
841	737	1995	707	3190	676

Table 3: DO% Saturation VS. Temperature									
Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.457	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration				
Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	758.1		1510	mmHg
Temperature (Saturated Air)	25.19	26.85	1510	c
Temperature (Calibration Solution)	21.55	22.46	1530	c
D.O.	9.18	7.65	1510	mg/L
PH 7	6.95	7.02	1518	SU
PH 4	3.93	4.00	1522	SU
PH 10	9.97	10.04	1526	SU
Specific Conductance	1.280	1.278	1514	mS/cm
ORP	221.4	237.5	1530	mV

MicroTPW Calibration	
Calibrations performed 0.02, 10, and 1000 NTU	Calibrations accepted: ☒ YES ☐ NO Circle One



FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Dehuan
Project Number: 60314964.17
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 SN: 05H1116 AG
Turbidity Meter Model/SN: 20021199
Additional Equipment SN: _____
Date: 5-8-2018

Operation Notes:

- 1) Turn meter on in Run mode and allow to warm up 10 to 15 minutes prior to calibration.
- 2) Observe DO % for 2-3 minutes when meter is initially turned on. The unit should display decreasing values until it is stabilized near 100%.
- 3) If the meter does not stabilize at/near 100%, indicates the DO sensor requires maintenance

These values should be keyed in when calibrating a water quality meter. Be sure to use the temperature of the standards, not ambient temperature, and be sure the temperature sensor is submerged in the solution.

Table 1: Calibration Values At Various Temperatures

Temp. C	pH 4	pH 7	pH 10	Conductivity	ORP
5	4.00	7.07	10.19	896.00	257.00
10	4.00	7.06	10.16	1020.00	250.50
15	4.00	7.04	10.10	1147.00	244.00
20	4.00	7.02	10.05	1278.00	237.50
25	4.00	7.01	10.01	1413.00	231.00
30	4.00	6.99	9.96	1548.00	224.50

mm Hg = millimeters of mercury. Note that the YSI 556 uses this information ONLY when the DO calibration is being done. After calibration is complete it no longer corrects for pressure change. Verify the meter is correct for your altitude when calibrating.

Table 2: Atmospheric Pressure / Altitude Table

Altitude feet (asl)	Pressure (mmHg)	Altitude feet (asl)	Pressure (mmHg)	Altitude feet (asl)	Pressure (mmHg)
0	760	1126	730	2290	699
278	752	1413	722	2587	692
558	745	1703	714	2887	684
841	737	1995	707	3190	676

Table 3: DO % Saturation Vs. Temperature

Temp C.	DO	Temp C.	DO	Temp C.	DO	Temp C.	DO	Temp C.	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	755.6		0610	mmHg
Temperature (Saturated Air)	21.88	22.03	0610	C
Temperature (Calibration Solution)	22.19	22.42	0630	C
DO	8.31	8.69	0610	mg/L
pH 7	7.04	7.02	0618	SU
pH 4	3.85	4.00	0622	SU
pH 10	9.84	10.01	0626	SU
Specific Conductance	1.274	1.278	0614	mS/cm
ORP	242.6	237.5	0630	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: <u>Yes</u> (circle one)	No
--	--	----

Project Name: UTC Delaven
 Project Number: 60314964.17
 Calibrated By: Randy Murya
 Signature: Randy Murya

YSI 556 SN: 05H116AG
 Turbidimeter Model/SN: MicroTPW 200711199
 Additional Equipment/SN: _____
 Date: 5-9-2018

Operation Notes:
 1) Turn meter on in Run mode and allow to warm up 10-15 minutes prior to calibration. 2) Observe DO% for 2-3 minutes when meter is initially turned on 3) The unit should display decreasing values until it is stabilized near-100% 4) If the meter does not stabilize at/near 100%, indicates the D.O. sensor requires maintenance

These values should be keyed in when calibrating a water quality meter. Be sure to use the temperature of the standards not ambient temperature and the temperature sensor is submerged in solution.

Temp., C	PH 4	PH 7	PH 10	Conductivity	ORP
5	4.00	7.07	10.19	896.00	257.00
10	4.00	7.06	10.16	1020.00	250.50
15	4.00	7.04	10.10	1147.00	244.00
20	4.00	7.02	10.05	1278.00	237.50
25	4.00	7.01	10.01	1413.00	231.00
30	4.00	6.99	9.96	1548.00	224.50

mm Hg = Millimeters of Mercury. Note that the YSI 556 uses this information ONLY when the DO calibration is being done. After calibration is complete it no longer corrects for pressure change. Verify the meter is correct for your altitude when calibrating.

Altitude feet (asl)	Pressure (mmHG)	Altitude feet (asl)	Pressure (mmHG)	Altitude feet (asl)	Pressure (mmHG)
0	760	1126	730	2290	659
278	752	1413	722	2587	652
558	745	1703	714	2887	654
841	737	1995	707	3190	676

Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.457	23	8.578	28	7.827	33	7.183	38	6.520
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	755.8		0600	mmHg
Temperature (Saturated Air)	22.01	21.35	0600	c
Temperature (Calibration Solution)	20.82	20.99	0620	c
D.O.	8.75	8.81	0600	mg/L
PH 7	7.13	7.02	0608	SU
PH 4	3.91	4.00	0612	SU
PH 10	9.85	10.02	0616	SU
Specific Conductance	1.278	1.278	0604	mS/cm
ORP	239.3	237.5	0620	mV

Calibrations performed 0.02, 10, and 1000 NTU	Calibrations accepted: <u>YES</u> NO Circle One
---	--

Project Name: UTC Delavan
 Project Number: 60314964.17
 Calibrated By: Randy Moryan
 Signature: Randy Moryan

YSI 556 SN: 0541116 AG
 Turbidimeter Model/SN: MicroTPW 20711199
 Additional Equipment/SN: _____
 Date: 5-10-2018

Operation Notes:

1) Turn meter on in Run mode and allow to warm up 10-15 minutes prior to calibration. 2) Observe DO% for 2-3 minutes when meter is initially turned on 3) The unit should display decreasing values until it is stabilized near-100% 4) If the meter does not stabilize at/near 100%, indicates the D.O. sensor requires maintenance

These values should be keyed in when calibrating a water quality meter. Be sure to use the temperature of the standards not ambient temperature and the temperature sensor is submerged in solution.

Table 1: Calibration Values At Various Temperatures					
Temp., C	PH 4	PH 7	PH 10	Conductivity	ORP
5	4.00	7.07	10.19	896.00	257.00
10	4.00	7.06	10.16	1020.00	250.50
15	4.00	7.04	10.10	1147.00	244.00
20	4.00	7.02	10.05	1278.00	237.50
25	4.00	7.01	10.01	1413.00	231.00
30	4.00	6.99	9.96	1548.00	224.50

mm Hg = Millimeters of Mercury. Note that the YSI 556 uses this information ONLY when the DO calibration is being done. After calibration is complete it no longer corrects for pressure change. Verify the meter is correct for your altitude when calibrating

Table 2: Atmospheric Pressure / Altitude Table					
Altitude feet (asl)	Pressure (mmHG)	Altitude feet (asl)	Pressure (mmHG)	Altitude feet (asl)	Pressure (mmHG)
0	760	1126	730	2290	699
278	752	1413	722	2587	692
558	745	1703	714	2887	684
841	737	1995	707	3190	676

Table 3: DO% Saturation VS. Temperature									
Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.263	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.457	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration				
Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	755.7		0700	mmHg
Temperature (Saturated Air)	21.61	21.03	0706	c
Temperature (Calibration Solution)	20.71	20.77	0720	c
D.O.	8.67	8.86	0700	mg/L
PH 7	7.11	7.02	0708	SU
PH 4	3.90	4.00	0712	SU
PH 10	9.80	10.01	0716	SU
Specific Conductance	1.278	1.278	0704	mS/cm
ORP	239.4	237.5	0720	mV

MicroTPW Calibration	
Calibrations performed 0.02, 10, and 1000 NTU	Calibrations accepted: ☒ YES ☐ NO Circle One

AECOM**Chain of Custody and Analytical Request**Page 2 of 2Project Number: 60314964Chain of Custody Number ⁽¹⁾: _____

LIMS Number: _____

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC				Sample Analysis Requested										Quality Assurance Samples							
Client Name: UTC																					
Collected by: Randy Morgan			Project Manager: Walter Gerald 864-234-8925																		
Sample ID	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hh:mm)	See Comments			Sample Information	TCL VOC,s (8260B)	TCL SVOC,s (8270D)	P/P Metals (6010C/7470B)											COMMENTS	Cooler ID
			COMP	GRAB	WEL																
MW-12D	08-May-2018	1540		X		Groundwater	X													All VOC's are unpreserved 7 Day Holding Time	
MW-13D	08-May-2018	1642		X			X														
MW-23D	08-May-2018	1717		X			X														
MW-1D	09-May-2018	0750		X			X														
MW-9	09-May-2018	0835		X			X														
MW-9-ms	09-May-2018	0835		X			X														
MW-9-msd	09-May-2018	0835		X			X														
MW-3	09-May-2018	0922		X			X														
MW-3D	09-May-2018	0958		X			X														
MW-3D-ms	09-May-2018	0958		X			X														
MW-3D-msd	09-May-2018	0958		X			X														
MW-8	09-May-2018	1057		X			X														
MW-5	09-May-2018	1150		X			X														
MW-24	09-May-2018	1240		X			X														
MW-7	09-May-2018	1355		X			X														

Custody Transfers Prior to Receipt by Laboratory
Relinquished By (Signed) Randy Morgan Date 5-9-2018 Time 1400
Received by (signed) _____ Date _____ Time _____
1. _____
2. _____
3. _____

Sample Delivery Details / Laboratory Receipt
Delivered Directly to Lab: _____
Method of Shipment: Fed Ex
Analytical Lab: Accutest
Lab Recipient: _____
Shipped: XXXX
Airbill #: 8133 7208 2709
Location: Orlando FLA
Date: _____ Time: _____

Chain of Custody Number = date collected + custody number (E.G. 01-19-2004-01)

VOC's are unpreserved 7 Day Holding Time

AECOM CHEMIST - Dori Cullom 8 864-234-8928 doria.cullom@aecom.com



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>May 9, 2018</u>		
Field Personnel	<u>Randy Morgan</u>		
Site Name	<u>UTC Delavan Spray Technologies Site</u>		
AECOM Job #	<u>60314964</u>		
Sample ID*	<u>MW-1</u>		
Upgradient	Downgradient	Sidegradient	X Source
Weather Conditions	<u>partly cloudy</u>		
Air Temperature	<u>75</u> °F		
Total Well Depth (TWD) =	<u>18.00</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>12.42</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>5.58</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x 0.163	= <u>0.90</u>	gal	
3 Casing Volumes =	<u>2.72</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>		
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>		
Total Volume of Water Removed	<u>1.50</u>	gal	
Casing Diameter	<u>2.0</u>	inches	
Casing Material	<u>PVC</u>		
Measuring Point Elevation	<u>147.56</u>	1/100 ft	
Height of Riser (above land surface)	<u>-0.37</u>	1/100 ft	
Land Surface Elevation	<u>147.19</u>	1/100 ft	
Screened Interval	<u>3</u> - <u>18</u>	1/100 ft	
Dedicated Pump or Bailer	YES <u>X</u> NO	Type	<u>Tubing</u>
Steel Guard Pipe Around Casing	YES <u>X</u> NO		
Locking Cap	YES <u>X</u> NO		
Protective Post/Abutment	YES NO <u>X</u>		
Well Integrity Satisfactory	YES <u>X</u> NO		
Yield	LOW <u>X</u> MODERATE HIGH		
Comments/Observations	<u>1452</u>		
Sample Time:	<u>VOC'S</u>		
Sample Analytes:	<u>N/A</u> mg/L		

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	.25	.50	.75	1.0	1.25	1.50				
TIME (Military)	1420	1425	1430	1435	1440	1445	1450				
Water Level (ft BTOW)	12.78	12.92	13.15	13.38	13.63	13.76	13.98				
pH (S.U.)	4.29	4.11	3.82	3.91	3.95	3.93	4.05				
Sp. Cond. (mS/cm)	0.034	0.034	0.034	0.035	0.035	0.035	0.034				
Water Temp. (°C)	22.23	22.03	21.70	21.60	21.63	21.61	21.92				
Turbidity (NTUs)	17.14	17.05	9.30	5.69	7.86	6.59	7.16				
DO - (mg/L)	4.99	4.76	4.51	4.30	3.77	3.55	3.42				
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
ORP (mV)	344.8	360.2	376.1	378.5	377.1	379.2	372.1				

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>May 10, 2018</u>		
Field Personnel	<u>Randy Muryan</u>		
Site Name	UTC Delavan Spray Technologies Site		
AECOM Job #	60314964		
Sample ID*	MW-2		
Upgradient	☒	Downgradient	☐
Sidegradient	☐	Source	☐
Weather Conditions	<u>clear / sunny</u>		
Air Temperature	<u>65</u>	° F	
Total Well Depth (TWD) =	<u>18.00</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>12.42</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>5.58</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x	<u>0.163</u>	=	<u>0.90</u> gal
3 Casing Volumes =	<u>2.70</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	Purge with Peristaltic Pump		
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S		
Total Volume of Water Removed	<u>2.10</u>	gal	

Casing Diameter	<u>2.0</u>	inches
Casing Material	<u>PVC</u>	
Measuring Point Elevation	<u>147.63</u>	1/100 ft
Height of Riser (above land surface)	<u>-0.18</u>	1/100 ft
Land Surface Elevation	<u>147.81</u>	1/100 ft
Screened Interval	<u>3</u> - <u>18</u>	1/100 ft
Dedicated Pump or Bailor	YES ☒ NO ☐	Type <u> tubing </u>
Steel Guard Pipe Around Casing	YES ☒ NO ☐	
Locking Cap	YES ☒ NO ☐	
Protective Post/Abutment	YES ☐ NO ☒	
Well Integrity Satisfactory	YES ☒ NO ☐	
Yield	LOW ☐ MODERATE ☒ HIGH ☐	
Comments/Observations		
Sample Time:	<u>10:52</u>	
Sample Analytes:	<u>VOC'S</u>	
Hack Fe Kit:	<u>N/A</u> mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

VOLUME PURGED (gallons)	FIELD ANALYSES										
	Initial	.30	.60	.90	1.20	1.50	1.80	2.10			
TIME (Military)	<u>1015</u>	<u>1020</u>	<u>1025</u>	<u>1030</u>	<u>1035</u>	<u>1040</u>	<u>1045</u>	<u>1050</u>			
Water Level (ft BTOC)	<u>12.43</u>	<u>12.45</u>	<u>12.50</u>	<u>12.53</u>	<u>12.56</u>	<u>12.56</u>	<u>12.56</u>	<u>12.56</u>			
pH (S.U.)	<u>5.27</u>	<u>4.42</u>	<u>4.04</u>	<u>4.05</u>	<u>3.86</u>	<u>3.88</u>	<u>3.93</u>	<u>3.90</u>			
Sp. Cond. (mS/cm)	<u>0.023</u>	<u>0.022</u>	<u>0.020</u>	<u>0.021</u>	<u>0.021</u>	<u>0.021</u>	<u>0.021</u>	<u>0.021</u>			
Water Temp. (°C)	<u>22.40</u>	<u>21.97</u>	<u>21.78</u>	<u>21.76</u>	<u>21.82</u>	<u>21.81</u>	<u>21.89</u>	<u>21.89</u>			
Turbidity (NTUs)	<u>15.07</u>	<u>17.26</u>	<u>13.07</u>	<u>8.39</u>	<u>8.79</u>	<u>6.23</u>	<u>6.93</u>	<u>7.23</u>			
DO - (mg/L)	<u>5.30</u>	<u>5.10</u>	<u>5.09</u>	<u>4.74</u>	<u>4.73</u>	<u>4.55</u>	<u>4.52</u>	<u>4.66</u>			
Salinity (ppt)	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>			
ORP (mV)	<u>316.8</u>	<u>351.6</u>	<u>373.3</u>	<u>379.2</u>	<u>392.5</u>	<u>392.7</u>	<u>396.4</u>	<u>400.1</u>			

COMMENTS/OBSERVATIONS

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) <u>May 9, 2018</u>		Casing Diameter <u>2.0</u> inches	
Field Personnel <u>Randy Morgan</u>		Casing Material <u>PVC</u>	
Site Name <u>UTC Delavan Spray Technologies Site</u>		Measuring Point Elevation <u>148.11</u> 1/100 ft	
AECOM Job # <u>60314964</u>		Height of Riser (above land surface) <u>-0.23</u> 1/100 ft	
Sample ID* <u>MW-3</u>		Land Surface Elevation <u>148.34</u> 1/100 ft	
☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source		Screened Interval <u>3</u> - <u>18</u> 1/100 ft	
Weather Conditions <u>Clear Sunny</u>		Dedicated Pump or Bailor YES ☒ NO ☐ Type <u>Handy</u>	
Air Temperature <u>62</u> ° F		Steel Guard Pipe Around Casing YES ☒ NO ☐	
Total Well Depth (TWD) = <u>18.00</u> 1/100 ft		Locking Cap YES ☒ NO ☐	
Depth to Ground Water (DGW) = <u>13.86</u> 1/100 ft		Protective Post/Abutment YES ☐ NO ☒	
Length of Water Column (LWC) = TWD - DGW = <u>4.14</u> 1/100 ft		Well Integrity Satisfactory YES ☒ NO ☐	
1 Casing Volume (OCV)* = LWC x <u>0.163</u> = <u>0.67</u> gal		Yield LOW ☐ MODERATE ☐ HIGH ☒	
3 Casing Volumes = <u>2.02</u> gal = Standard Evacuation Volume		Comments/Observations	
Method of Sample Evacuation <u>Purge with Peristaltic Pump</u>		Sample Time: <u>0922</u>	
Method of Sample Collection <u>Peristaltic Pump Reverse Flow for VOC'S</u>		Sample Analytes: <u>VOC'S</u>	
Total Volume of Water Removed <u>2.0</u> gal		Hack Fe Kit: <u>N/A</u> mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0					
VOLUME PURGED (gallons)											
TIME (Military)	0855	0900	0905	0910	0915	0920					
Water Level (ft BTOC)	14.12	14.25	14.36	14.48	14.53	14.62					
pH (S.U.)	4.15	4.01	4.16	4.09	4.13	4.05					
Sp. Cond. (mS/cm)	0.020	0.020	0.020	0.020	0.020	0.020					
Water Temp. (°C)	19.08	19.31	19.59	19.74	19.73	19.76					
Turbidity (NTUs)	8.08	4.79	4.87	2.26	2.77	2.99					
DO - (mg/L)	6.04	5.48	5.42	5.39	5.40	5.44					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	314.4	328.2	329.6	338.7	338.9	344.7					

COMMENTS/OBSERVATIONS

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 7

Date (mo/day/yr) May 9, 2018
 Field Personnel Randy Morgan
 Site Name UTC Delavan Spray Technologies Site
 AECOM Job # 60314964
 Sample ID* MW-3D
 _____ Upgradient ☒ Downgradient _____ Sidegradient _____ Source _____
 Weather Conditions Clear / Sunny
 Air Temperature 63 ° F
 Total Well Depth (TWD) = 49.00 1/100 ft
 Depth to Ground Water (DGW) = 14.93 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 34.07 1/100 ft
 1 Casing Volume (OCV)* = LWC x 0.163 = 5.55 gal
 3 Casing Volumes = 16.66 gal = Standard Evacuation Volume
 Method of Sample Evacuation Purge with Peristaltic Pump
 Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
 Total Volume of Water Removed 2.0 gal

Casing Diameter 2.0 inches
 Casing Material PVC
 Measuring Point Elevation 148.12 1/100 ft
 Height of Riser (above land surface) -0.16 1/100 ft
 Land Surface Elevation 148.28 1/100 ft
 Screened Interval 44 - 49 1/100 ft
 Dedicated Pump or Bailer YES ☒ NO _____ Type tubing
 Steel Guard Pipe Around Casing YES ☒ NO _____
 Locking Cap YES ☒ NO _____
 Protective Post/Abutment YES _____ NO ☒
 Well Integrity Satisfactory YES ☒ NO _____
 Yield LOW _____ MODERATE _____ HIGH ☒
 Comments/Observations
 Sample Time: 0958
 Sample Analytes: VOC'S MS/MSD
 Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0					
VOLUME PURGED (gallons)											
TIME (Military)	0930	0935	0940	0945	0950	0955					
Water Level (ft BTOC)	15.05	15.05	15.05	15.05	15.05	15.05					
pH (S.U.)	6.62	7.38	7.36	7.36	7.43	7.43					
Sp. Cond. (mS/cm)	0.240	0.235	0.235	0.235	0.236	0.235					
Water Temp. (°C)	20.68	21.55	21.60	22.04	22.10	22.04					
Turbidity (NTUs)	14.48	12.71	11.47	7.57	5.97	6.90					
DO - (mg/L)	3.89	2.99	2.79	2.69	2.67	2.67					
Salinity (ppt)	0.11	0.11	0.11	0.11	0.11	0.11					
ORP (mV)	225.0	172.5	171.4	169.1	161.5	157.1					

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9, 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-5
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions Clear / sunny
Air Temperature 68 °F
Total Well Depth (TWD) = 14.00 1/100 ft
Depth to Ground Water (DGW) = 8.90 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 5.10 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 0.83 gal
3 Casing Volumes = 2.49 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.0 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 145.46 1/100 ft
Height of Riser (above land surface) 0.12 1/100 ft
Land Surface Elevation 145.34 1/100 ft
Screened Interval 4 - 14 1/100 ft
Dedicated Pump or Bailer YES X NO ____ Type Tubing
Steel Guard Pipe Around Casing YES X NO ____
Locking Cap YES X NO ____
Protective Post/Abutment YES ____ NO X
Well Integrity Satisfactory YES X NO ____
Yield LOW X MODERATE ____ HIGH ____
Comments/Observations
Sample Time: 11:50
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	.30	.60	.90	1.20	1.50	1.75	2.0			
TIME (Military)	1113	1118	1123	1128	1133	1138	1143	1148			
Water Level (ft BTOW)	9.49	9.82	10.20	10.43	10.84	11.10	11.25	11.40			
pH (S.U.)	7.17	7.63	7.54	7.62	7.52	7.72	7.77	7.81			
Sp. Cond. (mS/cm)	0.021	0.020	0.020	0.020	0.020	0.021	0.021	0.021			
Water Temp. (°C)	20.0	19.69	19.63	19.35	19.61	19.87	20.02	20.13			
Turbidity (NTUs)	9.20	10.41	8.69	11.70	13.35	15.51	9.45	10.66			
DO - (mg/L)	7.61	7.49	7.42	7.39	7.24	7.33	7.23	7.25			
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
ORP (mV)	370.5	403.2	407.0	401.7	406.4	396.5	395.4	391.1			

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-7
☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source
Weather Conditions partly cloudy
Air Temperature 74 °F
Total Well Depth (TWD) = 20.00 1/100 ft
Depth to Ground Water (DGW) = 14.07 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 5.93 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 0.96 gal
3 Casing Volumes = 2.89 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 1.80 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 149.03 1/100 ft
Height of Riser (above land surface) -0.22 1/100 ft
Land Surface Elevation 149.25 1/100 ft
Screened Interval 5 - 20 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☒ MODERATE ☐ HIGH ☐
Comments/Observations Sample Time: 1355
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	1.30	1.60	1.90	1.20	1.50	1.80				
VOLUME PURGED (gallons)											
TIME (Military)	1323	1328	1333	1338	1343	1348	1353				
Water Level (ft BTOC)	14.57	14.88	15.38	15.81	16.27	16.49	16.74				
pH (S.U.)	4.40	3.62	3.59	3.62	3.61	3.60	3.59				
Sp. Cond. (mS/cm)	0.016	0.014	0.014	0.014	0.015	0.016	0.016				
Water Temp. (°C)	22.88	22.08	21.86	21.82	22.01	22.06	22.17				
Turbidity (NTUs)	16.59	11.96	7.48	4.69	8.75	9.18	9.50				
DO - (mg/L)	7.03	7.26	7.25	7.25	7.15	6.97	6.94				
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
ORP (mV)	344.2	384.1	382.9	387.1	389.6	392.2	396.2				

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 2

Date (mo/day/yr) May 9, 2015
Field Personnel Randy Mergo
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-8
Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source ☐
Weather Conditions Clear / Sunny
Air Temperature 65 ° F
Total Well Depth (TWD) = 20.00 1/100 ft
Depth to Ground Water (DGW) = 6.89 11.68 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 13.11 8.32 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 2.13 1.35 gal
3 Casing Volumes = 6.39 4.06 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.40 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 145.66 1/100 ft
Height of Riser (above land surface) -0.29 1/100 ft
Land Surface Elevation 145.95 1/100 ft
Screened Interval 5 - 20 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Feeding
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☐ MODERATE ☒ HIGH ☐
Comments/Observations
Sample Time: 1057
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)

TIME (Military)

Water Level (ft BTOC)

pH (S.U.)

Sp. Cond. (mS/cm)

Water Temp. (°C)

Turbidity (NTUs)

DO - (mg/L)

Salinity (ppt)

ORP (mV)

Initial	.40	.80	1.20	1.60	2.0	2.40				
1025	1030	1035	1040	1045	1050	1055				
12.09	12.23	12.32	12.40	12.48	12.53	12.58				
5.04	4.52	4.21	4.13	4.14	4.23	4.17				
0.050	0.064	0.056	0.054	0.051	0.049	0.050				
22.67	22.59	22.66	22.67	22.72	22.68	22.62				
20.39	11.32	5.63	4.45	4.18	4.24	5.21				
4.07	3.90	3.55	3.28	3.10	2.97	2.99				
0.02	0.03	0.03	0.02	0.02	0.02	0.02				
282.5	307.7	342.1	352.5	357.0	360.4	367.3				

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9, 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-9
☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source
Weather Conditions Clear (Sunny)
Air Temperature 58 ° F
Total Well Depth (TWD) = 20.00 1/100 ft
Depth to Ground Water (DGW) = 6.89 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 13.11 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 2.13 gal
3 Casing Volumes = 6.41 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.40 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 143.89 1/100 ft
Height of Riser (above land surface) -0.22 1/100 ft
Land Surface Elevation 144.11 1/100 ft
Screened Interval 5 - 20 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☒ MODERATE ☒ HIGH ☐
Comments/Observations
Sample Time: 0835
Sample Analytes: VOC'S MS/MSD
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	.40	.80	1.20	1.60	2.0	2.40				
TIME (Military)	0803	0808	0813	0818	0823	0828	0833				
Water Level (ft BTOC)	7.44	7.69	7.97	8.12	8.38	8.45	8.57				
pH (S.U.)	3.78	3.66	3.70	3.69	3.64	3.63	3.67				
Sp. Cond. (mS/cm)	0.024	0.025	0.024	0.024	0.024	0.025	0.025				
Water Temp. (°C)	16.23	16.39	16.49	16.47	16.47	16.51	16.52				
Turbidity (NTUs)	32.10	24.99	25.29	23.07	16.02	13.82	12.81				
DO - (mg/L)	4.53	3.54	3.22	3.16	3.09	3.05	3.08				
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
ORP (mV)	235.2	266.7	292.3	305.1	322.6	331.0	335.0				

COMMENTS/OBSERVATIONS

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9 2018
 Field Personnel Randy Morgan
 Site Name UTC Delavan Spray Technologies Site
 AECOM Job # 60314964
 Sample ID* MW-10
 _____ Upgradient ☒ Downgradient _____ Sidegradient _____ Source _____
 Weather Conditions Clear / Sunny
 Air Temperature 56 ° F
 Total Well Depth (TWD) = 18.00 1/100 ft
 Depth to Ground Water (DGW) = 5.98 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 12.02 1/100 ft
 1 Casing Volume (OCV)* = LWC x 0.163 = 1.95 gal
 3 Casing Volumes = 5.87 gal = Standard Evacuation Volume
 Method of Sample Evacuation Purge with Peristaltic Pump
 Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
 Total Volume of Water Removed 2.80 gal

Casing Diameter 2.0 inches
 Casing Material PVC
 Measuring Point Elevation 142.19 1/100 ft
 Height of Riser (above land surface) -0.37 1/100 ft
 Land Surface Elevation 142.56 1/100 ft
 Screened Interval 3 - 18 1/100 ft
 Dedicated Pump or Bailer YES ☒ NO _____ Type tubing
 Steel Guard Pipe Around Casing YES ☒ NO _____
 Locking Cap YES ☒ NO _____
 Protective Post/Abutment YES _____ NO ☒
 Well Integrity Satisfactory YES ☒ NO _____
 Yield LOW _____ MODERATE _____ HIGH ☒
 Comments/Observations
 Sample Time: 0750
 Sample Analytes: VOC'S
 Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	.40	.80	1.20	1.60	2.0	2.40	2.80			
TIME (Military)	0713	0718	0723	0728	0733	0738	0743	0748			
Water Level (ft BTOC)	6.49	6.49	6.49	6.49	6.49	6.49	6.49	6.49			
pH (S.U.)	2.03	3.13	3.58	3.62	3.66	3.75	3.77	3.73			
Sp. Cond. (mS/cm)	0.026	0.025	0.025	0.024	0.024	0.023	0.023	0.023			
Water Temp. (°C)	15.72	15.80	15.88	15.88	15.91	15.95	15.95	15.98			
Turbidity (NTUs)	5.44	8.13	5.45	4.08	5.68	4.60	4.97	4.55			
DO - (mg/L)	2.13	1.51	1.16	0.66	0.54	0.45	0.39	0.33			
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
ORP (mV)	254.1	188.2	150.2	155.1	160.0	176.6	168.9	169.8			

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 8, 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-12D
☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source
Weather Conditions clear sunny
Air Temperature 78 ° F
Total Well Depth (TWD) = 50.00 1/100 ft
Depth to Ground Water (DGW) = 14.45 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 35.55 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 5.79 gal
3 Casing Volumes = 17.38 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 4.4 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 147.65 1/100 ft
Height of Riser (above land surface) -0.21 1/100 ft
Land Surface Elevation 147.86 1/100 ft
Screened Interval 40 - 50 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Fishing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☐ MODERATE ☐ HIGH ☒
Comments/Observations
Sample Time: 1540
Sample Analytes: VOC'S
Hack Fe Kit: NA mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	0.80	1.60	2.40	3.20	3.60	4.0	4.4			
VOLUME PURGED (gallons)											
TIME (Military)	1443	1453	1503	1513	1523	1528	1533	1538			
Water Level (ft BTOC)	13.57	16.34	16.55	16.54	16.52	16.50	16.50	16.50			
pH (S.U.)	10.74	10.51	9.84	9.44	9.12	9.03	8.97	8.90			
Sp. Cond. (mS/cm)	0.268	0.237	0.192	0.197	0.206	0.207	0.211	0.214			
Water Temp. (°C)	19.50	18.98	18.91	18.78	18.89	18.90	18.95	18.89			
Turbidity (NTUs)	18.05	8.52	7.14	6.06	5.85	5.35	4.94	1.79			
DO - (mg/L)	6.41	6.15	5.88	5.25	5.18	5.03	4.97	4.90			
Salinity (ppt)	0.13	0.11	0.09	0.09	0.10	0.10	0.10	0.10			
ORP (mV)	122.6	108.6	104.6	106.2	106.3	109.7	110.0	110.7			

COMMENTS/OBSERVATIONS

start w/ readings every 10 minutes then back to 5 minutes

Ph and Conductivity are high stabilize after 5 gals



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 7

Date (mo/day/yr)	<u>May 8 2018</u>
Field Personnel	<u>Randy Meyer</u>
Site Name	<u>UTC Delavan Spray Technologies Site</u>
AECOM Job #	<u>60314964</u>
Sample ID*	<u>MW-13D</u>
☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source	
Weather Conditions	<u>Clear / Sunny</u>
Air Temperature	<u>80</u> °F
Total Well Depth (TWD) =	<u>50.00</u> 1/100 ft
Depth to Ground Water (DGW) =	<u>13.20</u> 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	<u>36.80</u> 1/100 ft
1 Casing Volume (OCV)* = LWC x	<u>0.163</u> = <u>5.99</u> gal
3 Casing Volumes =	<u>17.99</u> gal = Standard Evacuation Volume
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>
Total Volume of Water Removed	gal

Casing Diameter	<u>2.0</u>	inches
Casing Material	<u>PVC</u>	
Measuring Point Elevation	<u>146.23</u>	1/100 ft
Height of Riser (above land surface)	<u>-0.18</u>	1/100 ft
Land Surface Elevation	<u>146.41</u>	1/100 ft
Screened Interval	<u>40</u> - <u>50</u>	1/100 ft
Dedicated Pump or Bailer	YES ☒ NO ☐	Type <u> tubing</u>
Steel Guard Pipe Around Casing	☒ YES ☒ NO ☐	
Locking Cap	YES ☐ NO ☐	
Protective Post/Abutment	YES ☐ NO ☒	
Well Integrity Satisfactory	YES ☒ NO ☐	
Yield	LOW ☐ MODERATE ☐ HIGH ☒	
Comments/Observations	<u>Sample Time: 1642</u>	
	<u>Sample Analytes: VOC'S</u>	
Hack Fe Kit:	<u>N/A</u> mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	<u>1.40</u>	<u>1.80</u>	<u>1.20</u>	<u>1.60</u>	<u>2.0</u>	<u>2.4</u>	<u>2.8</u>	<u>3.20</u>		
VOLUME PURGED (gallons)	<u>1600</u>	<u>1605</u>	<u>1610</u>	<u>1615</u>	<u>1620</u>	<u>1625</u>	<u>1630</u>	<u>1635</u>	<u>1640</u>		
TIME (Military)	<u>13.25</u>	<u>13.27</u>	<u>13.27</u>	<u>13.27</u>	<u>13.27</u>	<u>13.27</u>	<u>13.27</u>	<u>13.27</u>	<u>13.27</u>		
Water Level (ft BTOC)	<u>8.29</u>	<u>7.90</u>	<u>7.76</u>	<u>7.51</u>	<u>7.88</u>	<u>7.76</u>	<u>7.73</u>	<u>7.72</u>	<u>7.70</u>		
pH (S.U.)	<u>0.218</u>	<u>0.225</u>	<u>0.225</u>	<u>0.225</u>	<u>0.226</u>	<u>0.226</u>	<u>0.227</u>	<u>0.227</u>	<u>0.227</u>		
Sp. Cond. (mS/cm)	<u>20.07</u>	<u>19.86</u>	<u>19.91</u>	<u>19.96</u>	<u>19.89</u>	<u>19.84</u>	<u>19.80</u>	<u>19.86</u>	<u>19.94</u>		
Water Temp. (°C)	<u>11.67</u>	<u>7.62</u>	<u>6.37</u>	<u>4.55</u>	<u>6.25</u>	<u>1.71</u>	<u>3.43</u>	<u>4.30</u>	<u>3.40</u>		
Turbidity (NTUs)	<u>5.27</u>	<u>4.38</u>	<u>4.18</u>	<u>4.11</u>	<u>4.15</u>	<u>4.13</u>	<u>4.25</u>	<u>4.22</u>	<u>4.19</u>		
DO - (mg/L)	<u>0.10</u>	<u>0.11</u>	<u>0.11</u>	<u>0.11</u>	<u>0.11</u>	<u>0.11</u>	<u>0.11</u>	<u>0.11</u>	<u>0.11</u>		
Salinity (ppt)	<u>135.2</u>	<u>142.9</u>	<u>150.8</u>	<u>165.7</u>	<u>190.0</u>	<u>187.3</u>	<u>155.4</u>	<u>157.7</u>	<u>154.4</u>		
ORP (mV)											

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>May 10, 2018</u>		
Field Personnel	<u>Randy Morgan</u>		
Site Name	<u>UTC Delavan Spray Technologies Site</u>		
AECOM Job #	<u>60314964</u>		
Sample ID*	<u>MW-14</u>		
Upgradient	☒	Downgradient	☐
Sidegradient	☐	Source	☐
Weather Conditions	<u>clear / sunny</u>		
Air Temperature	<u>58</u>	° F	
Total Well Depth (TWD) =	<u>20.00</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>12.44</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>7.56</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x	<u>0.163</u>	=	<u>1.23</u> gal
3 Casing Volumes =	<u>3.69</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>		
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>		
Total Volume of Water Removed	<u>3.0</u>	gal	

Casing Diameter	<u>2.0</u>	inches
Casing Material	<u>PVC</u>	
Measuring Point Elevation	<u>146.90</u>	1/100 ft
Height of Riser (above land surface)	<u>-0.15</u>	1/100 ft
Land Surface Elevation	<u>147.05</u>	1/100 ft
Screened Interval	<u>5</u> - <u>20</u>	1/100 ft
Dedicated Pump or Bailer	YES ☒ NO ☐	Type <u>tubing</u>
Steel Guard Pipe Around Casing	YES ☒ NO ☐	
Locking Cap	YES ☒ NO ☐	
Protective Post/Abutment	YES ☐ NO ☒	
Well Integrity Satisfactory	YES ☒ NO ☐	
Yield	LOW ☒ MODERATE ☐ HIGH ☐	
Comments/Observations		
Sample Time:	<u>0907</u>	
Sample Analytes:	<u>VOC'S</u>	
Hack Fe Kit:	<u>N/A</u> mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h$ (7.48), where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	30	60	90	1.20	1.50	1.80	2.10	2.40	2.70	3.0
TIME (Military)	0815	0820	0825	0830	0835	0840	0845	0850	0855	0900	0905
Water Level (ft BTOC)	12.91	13.12	13.53	13.81	14.18	14.40	14.68	15.01	15.39	15.72	15.89
pH (S.U.)	4.09	3.14	3.44	3.49	3.62	3.67	3.72	3.78	3.99	3.98	3.96
Sp. Cond. (mS/cm)	0.023	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.024	0.024
Water Temp. (°C)	18.40	18.40	18.48	18.56	18.70	18.83	18.88	18.97	19.12	19.27	19.33
Turbidity (NTUs)	14.44	6.92	2.41	3.09	3.43	3.89	4.88	6.06	6.15	6.40	6.29
DO - (mg/L)	6.93	6.92	6.65	6.63	6.49	6.47	6.37	6.23	6.05	5.98	5.95
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ORP (mV)	424.4	443.3	427.4	427.9	423.8	421.3	419.2	419.2	409.2	412.9	413.8

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	May 10, 2018		
Field Personnel	Randy Morgan		
Site Name	UTC Delavan Spray Technologies Site		
AECOM Job #	60314964		
Sample ID*	MW-14D		
Upgradient	X	Downgradient	Sidegradient
Weather Conditions	Clear Sunny		
Air Temperature	60	° F	
Total Well Depth (TWD) =	50.00	1/100 ft	
Depth to Ground Water (DGW) =	13.87	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	36.13	1/100 ft	
1 Casing Volume (OCV)* = LWC x	0.163	= 5.88	gal
3 Casing Volumes =	17.66	gal = Standard Evacuation Volume	
Method of Sample Evacuation	Purge with Peristaltic Pump		
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S		
Total Volume of Water Removed	3.20	gal	

Casing Diameter	2.0	inches
Casing Material	PVC	
Measuring Point Elevation	146.88	1/100 ft
Height of Riser (above land surface)	-0.23	1/100 ft
Land Surface Elevation	147.11	1/100 ft
Screened Interval	40 - 50	1/100 ft
Dedicated Pump or Bailer	YES ☒ NO ☐	Type <u>Subing</u>
Steel Guard Pipe Around Casing	YES ☒ NO ☐	
Locking Cap	YES ☒ NO ☐	
Protective Post/Abutment	YES ☐ NO ☒	
Well Integrity Satisfactory	YES ☒ NO ☐	
Yield	LOW ☐ MODERATE ☐ HIGH ☒	
Comments/Observations	Sample Time: 1000	
Sample Analytes:	VOC'S Dup MW-14D-a	
Hack Fe Kit:	N/A mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0	2.40	2.80	3.20		
VOLUME PURGED (gallons)	0918	0923	0928	0933	0938	0943	0948	0953	0958		
TIME (Military)	14.05	14.07	14.08	14.08	14.08	14.08	14.08	14.08	14.08		
Water Level (ft BTOW)	10.16	9.11	7.91	7.24	7.59	7.54	7.56	7.59	7.55		
pH (S.U.)	0.156	0.197	0.233	0.234	0.234	0.233	0.233	0.233	0.234		
Sp. Cond. (mS/cm)	20.94	21.34	21.32	21.46	21.45	21.55	21.68	21.69	21.81		
Water Temp. (°C)	7.46	9.08	8.56	6.44	5.81	6.64	4.14	3.85	3.99		
Turbidity (NTUs)	3.52	1.79	1.59	0.82	0.48	0.39	0.34	0.31	0.33		
DO - (mg/L)	0.07	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11		
Salinity (ppt)	236.5	223.7	222.7	213.5	197.5	186.8	169.4	167.5	166.0		
ORP (mV)											

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>5-27-2018</u>	Casing Diameter	<u>2.0</u>	inches
Field Personnel	<u>Randy Mergo</u>	Casing Material	<u>PVC</u>	
Site Name	<u>UTC Delavan Spray Technologies Site</u>	Measuring Point Elevation	<u>135.73</u>	1/100 ft
AECOM Job #	<u>60314964</u>	Height of Riser (above land surface)	<u>-0.40</u>	1/100 ft
Sample ID*	<u>MW-15</u>	Land Surface Elevation	<u>136.13</u>	1/100 ft
Upgradient ☐ Downgradient ☒ Sidegradient ☐ Source ☐		Screened Interval	<u>4 - 19</u>	1/100 ft
Weather Conditions	<u>Clear Sunny</u>	Dedicated Pump or Bailer	YES ☐ NO ☒	Type <u> </u>
Air Temperature	<u>85</u> °F	Steel Guard Pipe Around Casing	YES ☒ NO ☐	
Total Well Depth (TWD) =	<u>19.00</u>	Locking Cap	YES ☒ NO ☐	
Depth to Ground Water (DGW) =	<u>3.74</u>	Protective Post/Abutment	YES ☐ NO ☒	
Length of Water Column (LWC) = TWD - DGW =	<u>15.26</u>	Well Integrity Satisfactory	YES ☒ NO ☐	
1 Casing Volume (OCV)* = LWC x 0.163	= <u>2.48</u>	Yield	LOW ☐ MODERATE ☐ HIGH ☒	
3 Casing Volumes =	<u>7.46</u> gal = Standard Evacuation Volume	Comments/Observations		
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>	Sample Time:	<u>1627</u>	
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>	Sample Analytes:	<u>VOC'S</u>	
Total Volume of Water Removed	<u>3.20</u> gal	Hack Fe Kit:	<u>NA</u> mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h$ (7.48), where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0	2.40	2.80	3.20		
VOLUME PURGED (gallons)											
TIME (Military)	<u>1545</u>	<u>1550</u>	<u>1555</u>	<u>1600</u>	<u>1605</u>	<u>1610</u>	<u>1615</u>	<u>1620</u>	<u>1625</u>		
Water Level (ft BTOW)	<u>4.14</u>	<u>4.19</u>	<u>4.25</u>	<u>4.27</u>	<u>4.28</u>	<u>4.30</u>	<u>4.32</u>	<u>4.33</u>	<u>4.35</u>		
pH (S.U.)	<u>6.15</u>	<u>4.00</u>	<u>3.54</u>	<u>3.66</u>	<u>3.72</u>	<u>3.73</u>	<u>3.75</u>	<u>3.77</u>	<u>3.75</u>		
Sp. Cond. (mS/cm)	<u>0.407</u>	<u>0.373</u>	<u>0.358</u>	<u>0.351</u>	<u>0.345</u>	<u>0.334</u>	<u>0.323</u>	<u>0.318</u>	<u>0.312</u>		
Water Temp. (°C)	<u>21.69</u>	<u>19.50</u>	<u>19.05</u>	<u>18.97</u>	<u>19.95</u>	<u>20.02</u>	<u>19.89</u>	<u>19.60</u>	<u>19.58</u>		
Turbidity (NTUs)	<u>15.03</u>	<u>19.41</u>	<u>19.93</u>	<u>25.43</u>	<u>14.05</u>	<u>12.93</u>	<u>8.63</u>	<u>6.53</u>	<u>4.86</u>		
DO - (mg/L)	<u>6.11</u>	<u>0.31</u>	<u>0.26</u>	<u>0.23</u>	<u>0.19</u>	<u>0.20</u>	<u>0.18</u>	<u>0.18</u>	<u>0.16</u>		
Salinity (ppt)	<u>0.19</u>	<u>0.18</u>	<u>0.28</u>	<u>0.17</u>	<u>0.16</u>	<u>0.16</u>	<u>0.13</u>	<u>0.13</u>	<u>0.13</u>		
ORP (mV)	<u>20.0</u>	<u>111.6</u>	<u>170.7</u>	<u>145.0</u>	<u>153.3</u>	<u>166.7</u>	<u>168.2</u>	<u>160.8</u>	<u>156.6</u>		

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 2 of 1

Date (mo/day/yr)	<u>Nov 8, 2018</u>		
Field Personnel	<u>Randy Morgan</u>		
Site Name	UTC Delavan Spray Technologies Site		
AECOM Job #	60314964		
Sample ID*	MW-16		
Upgradient	☒	Downgradient	☐
Sidegradient	☐	Source	☐
Weather Conditions	<u>Clear Sunny</u>		
Air Temperature	<u>85</u>	° F	
Total Well Depth (TWD) =	<u>19.00</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>4.22</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>14.78</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x	<u>0.163</u>	=	<u>2.40</u> gal
3 Casing Volumes =	<u>7.22</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	Purge with Peristaltic Pump		
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S		
Total Volume of Water Removed	<u>40</u>	gal	
Casing Diameter	<u>2.0</u>	inches	
Casing Material	PVC		
Measuring Point Elevation	<u>138.30</u>	1/100 ft	
Height of Riser (above land surface)	<u>-0.44</u>	1/100 ft	
Land Surface Elevation	<u>138.74</u>	1/100 ft	
Screened Interval	<u>4</u>	-	<u>19</u> 1/100 ft
Dedicated Pump or Bailer	YES ☒	NO ☐	Type <u>Tubing</u>
Steel Guard Pipe Around Casing	YES ☒	NO ☐	
Locking Cap	YES ☒	NO ☐	
Protective Post/Abutment	YES ☐	NO ☒	
Well Integrity Satisfactory	YES ☒	NO ☐	
Yield	LOW ☐	MODERATE ☐	HIGH ☒
Comments/Observations	<u>1740</u>		
Sample Time:	<u>1740</u>		
Sample Analytes:	<u>VOC'S</u>		
Hack Fe Kit:	<u>NA</u>	mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0	2.4	2.80	3.20	3.60	4.0
VOLUME PURGED (gallons)											
TIME (Military)	1647	1652	1657	1702	1707	1712	1717	1722	1727	1732	1737
Water Level (ft BTOC)	4.40	4.50	4.58	4.62	4.62	4.63	4.63	4.63	4.63	4.63	4.63
pH (S.U.)	3.75	2.75	2.93	2.92	2.94	3.81	3.60	3.75	3.71	3.76	3.73
Sp. Cond. (mS/cm)	0.030	0.029	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Water Temp. (°C)	19.57	19.30	19.39	19.51	19.53	19.71	19.61	19.54	19.41	19.35	19.30
Turbidity (NTUs)	140.3	261.3	132.4	193.2	13.46	11.71	12.06	10.82	10.56	10.75	10.91
DO - (mg/L)	0.36	0.19	0.24	0.33	0.29	2.25	1.89	1.64	1.50	1.41	1.39.6
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ORP (mV)	199.4	261.0	295.4	246.3	237.1	185.3	184.5	179.7	184.4	182.2	188.2

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 7, 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-16D
Upgradient ☐ Downgradient ☒ Sidegradient ☐ Source ☐
Weather Conditions Clear Sunny
Air Temperature 85 ° F
Total Well Depth (TWD) = 45.00 1/100 ft
Depth to Ground Water (DGW) = 5.88 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 39.12 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 6.37 gal
3 Casing Volumes = 19.12 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.80 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 138.38 1/100 ft
Height of Riser (above land surface) -0.32 1/100 ft
Land Surface Elevation 138.70 1/100 ft
Screened Interval 35 - 45 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☐ MODERATE ☐ HIGH ☒
Comments/Observations
Sample Time: 1820
Sample Analytes: VOC'S
Hack Fe Kit: NA mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	40	80	120	160	200	240	280			
VOLUME PURGED (gallons)											
TIME (Military)	1743	1748	1753	1758	1803	1808	1813	1818			
Water Level (ft BTOC)	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89			
pH (S.U.)	6.77	6.82	6.58	6.68	6.82	7.30	7.31	7.33			
Sp. Cond. (mS/cm)	0.280	0.281	0.282	0.282	0.282	0.282	0.282	0.282			
Water Temp. (°C)	19.96	19.76	19.74	19.65	19.69	19.62	19.63	19.60			
Turbidity (NTUs)	11.45	5.15	2.36	4.65	3.42	4.98	3.97	4.89			
DO - (mg/L)	4.61	4.36	4.33	4.36	4.30	4.49	4.25	4.30			
Salinity (ppt)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13			
ORP (mV)	70.9	93.7	121.6	132.5	127.4	105.1	108.1	109.3			

COMMENTS/OBSERVATIONS

1805 emptied flow thru had bubbles on probes



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9, 2018
Field Personnel Randy Mingo
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-19
☐ Upgradient ☐ Downgradient ☐ Sidegradient ☒ Source
Weather Conditions partly cloudy
Air Temperature 80 °F
Total Well Depth (TWD) = 20.15 1/100 ft
Depth to Ground Water (DGW) = 13.02 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 7.13 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 = 0.29 RM gal
3 Casing Volumes = 0.87 3.48 RM gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 1.50 gal

Casing Diameter 1.0 inches
Casing Material PVC
Measuring Point Elevation 148.22 1/100 ft
Height of Riser (above land surface) -0.25 1/100 ft
Land Surface Elevation 148.47 1/100 ft
Screened Interval 5 - 20 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☒ MODERATE ☐ HIGH ☐
Comments/Observations
Sample Time: 1550
Sample Analytes: VOC'S
Hack Fe Kit N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	.25	.50	.75	1.0	1.25	1.50				
TIME (Military)	1518	1523	1528	1533	1538	1543	1548				
Water Level (ft BTOC)	13.78	13.88	14.10	14.22	14.18	14.12	14.10				
pH (S.U.)	4.30	4.24	4.13	4.08	4.13	4.14	4.17				
Sp. Cond. (mS/cm)	0.109	0.111	0.108	0.106	0.105	0.105	0.105				
Water Temp. (°C)	22.66	22.35	21.99	21.85	21.86	21.89	21.93				
Turbidity (NTUs)	46.25	37.88	41.14	21.24	11.27	15.39	9.73				
DO - (mg/L)	2.73	2.14	1.66	1.48	1.42	1.41	1.38				
Salinity (ppt)	0.05	0.05	0.05	0.05	0.05	0.05	0.05				
ORP (mV)	359.7	372.1	383.1	388.7	389.4	390.8	391.2				

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9, 2018
Field Personnel Randy Morup
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-20
☐ Upgradient ☐ Downgradient ☐ Sidegradient ☒ Source
Weather Conditions partly cloudy
Air Temperature 80 ° F
Total Well Depth (TWD) = 15.15 1/100 ft
Depth to Ground Water (DGW) = 12.87 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 2.28 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 = 0.09 gal
3 Casing Volumes = 0.28 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 1.50 gal

Casing Diameter 1.0 inches
Casing Material PVC
Measuring Point Elevation 148.19 1/100 ft
Height of Riser (above land surface) -0.31 1/100 ft
Land Surface Elevation 148.50 1/100 ft
Screened Interval 5 - 15 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☒ MODERATE ☐ HIGH ☐
Comments/Observations
Sample Time: 1642
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	.25	.50	.75	1.0	1.25	1.50				
TIME (Military)	1610	1615	1620	1625	1630	1635	1640				
Water Level (ft BTOC)	13.66	13.82	14.05	13.93	13.94	14.09	14.18				
pH (S.U.)	3.98	3.95	3.87	3.93	3.93	3.96	3.98				
Sp. Cond. (mS/cm)	0.030	0.029	0.028	0.028	0.029	0.028	0.028				
Water Temp. (°C)	21.40	21.28	21.05	20.95	20.93	21.07	21.14				
Turbidity (NTUs)	19.33	9.03	6.00	3.94	4.00	3.83	4.01				
DO - (mg/L)	5.29	3.90	3.36	3.06	3.08	3.07	3.08				
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
ORP (mV)	392.6	399.5	426.3	395.3	393.3	392.7	390.7				

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 10, 2018
Field Personnel Randy Morano
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-21
____ Upgradient ____ Downgradient ____ Sidegradient ____ X Source
Weather Conditions Clear / Sunny
Air Temperature Clear / Sunny 70 ° F
Total Well Depth (TWD) = 34.40 1/100 ft
Depth to Ground Water (DGW) = 13.68 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 20.72 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 3.37 gal
3 Casing Volumes = 10.13 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.0 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 147.97 1/100 ft
Height of Riser (above land surface) -0.20 1/100 ft
Land Surface Elevation 148.17 1/100 ft
Screened Interval 19 - 34 1/100 ft
Dedicated Pump or Bailer YES X NO ____ Type Submersible
Steel Guard Pipe Around Casing YES X NO ____
Locking Cap YES X NO ____
Protective Post/Abutment YES ____ NO X
Well Integrity Satisfactory YES X NO ____
Yield LOW ____ MODERATE ____ HIGH X
Comments/Observations Sample Time: 1125
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)

TIME (Military)

Water Level (ft BTWC)

pH (S.U.)

Sp. Cond. (mS/cm)

Water Temp. (°C)

Turbidity (NTUs)

DO - (mg/L)

Salinity (ppt)

ORP (mV)

Initial	.40	.80	1.20	1.60	2.0					
1058	1103	1108	1113	1118	1123					
14.60	15.19	15.56	15.73	15.82	15.83					
3.91	3.81	3.85	3.82	3.93	3.99					
0.021	0.021	0.021	0.021	0.021	0.022					
21.56	21.28	21.26	21.19	21.16	21.20					
57.20	18.29	10.08	9.31	7.89	7.67					
1.74	0.72	0.52	0.47	0.37	0.22					
0.01	0.01	0.01	0.01	0.01	0.01					
383.2	405.0	404.5	379.5	373.1	371.0					

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9 2015
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-21D
☐ Upgradient ☐ Downgradient ☐ Sidegradient ☒ Source
Weather Conditions partly cloudy
Air Temperature 53 ° F
Total Well Depth (TWD) = 53.40 1/100 ft
Depth to Ground Water (DGW) = 13.71 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 39.69 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 6.46 gal
3 Casing Volumes = 19.40 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 3.20 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 146.92 1/100 ft
Height of Riser (above land surface) -0.31 1/100 ft
Land Surface Elevation 147.23 1/100 ft
Screened Interval 43 - 53 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☐ MODERATE ☐ HIGH ☒
Comments/Observations 1742
Sample Time: 1742
Sample Analytes: VOC'S
Hack Fe Kit: NA mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)

TIME (Military)

Water Level (ft BTOC)

pH (S.U.)

Sp. Cond. (mS/cm)

Water Temp. (°C)

Turbidity (NTUs)

DO - (mg/L)

Salinity (ppt)

ORP (mV)

Initial	.40	.80	1.20	1.60	2.0	2.40	2.80	3.20		
1700	1705	1710	1715	1720	1725	1730	1735	1740		
13.85	13.84	13.84	13.84	13.84	13.84	13.84	13.84	13.84		
8.72	9.00	8.48	7.70	7.51	7.49	7.49	7.40	7.42		
0.219	0.231	0.229	0.232	0.232	0.232	0.232	0.232	0.233		
22.00	22.06	21.93	21.89	21.88	21.83	21.76	21.73	21.72		
9.22	7.22	6.13	4.41	4.00	3.08	2.76	4.31	3.55		
2.68	1.30	0.63	0.53	0.26	0.22	0.20	0.21	0.20		
0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11		
253.0	225.6	213.6	167.5	146.5	-19.1	-44.2	-37.7	-44.8		

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 8, 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-22D
☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source
Weather Conditions Clear/sunny
Air Temperature 64 °F
Total Well Depth (TWD) = 48.40 1/100 ft
Depth to Ground Water (DGW) = 13.10 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 35.30 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 5.75 gal
3 Casing Volumes = 17.26 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 1.60 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 145.96 1/100 ft
Height of Riser (above land surface) -0.10 1/100 ft
Land Surface Elevation 146.06 1/100 ft
Screened Interval 38 - 48 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Tubing
Steel Guard Pipe Around Casing YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☐ MODERATE ☐ HIGH ☒
Comments/Observations 0925
Sample Time: 0925
Sample Analytes: VOC's Dup MW-22D-a
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)

TIME (Military)

Water Level (ft BTOC)

pH (S.U.)

Sp. Cond. (mS/cm)

Water Temp. (°C)

Turbidity (NTUs)

DO - (mg/L)

Salinity (ppt)

ORP (mV)

Initial	.40	.80	1.20	1.60					
0903	0908	0913	0918	0923					
13.17	13.18	13.18	13.18	13.18					
7.62	7.64	7.60	7.56	7.55					
0.233	0.234	0.255	0.259	0.263					
18.32	18.40	18.49	18.50	18.52					
10.63	7.57	5.61	5.44	4.00					
4.00	3.40	2.89	2.81	2.77					
0.11	0.11	0.12	0.12	0.12					
171.8	170.3	167.4	166.8	166.8					

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>May 8, 2018</u>		
Field Personnel	<u>Randy Morgan</u>		
Site Name	<u>UTC Delavan Spray Technologies Site</u>		
AECOM Job #	<u>60314964</u>		
Sample ID*	<u>MW-23D</u>		
Upgradient	☒	Downgradient	☐
Sidegradient	☐	Source	☐
Weather Conditions	<u>Clear / Sunny</u>		
Air Temperature	<u>81</u> ° F		
Total Well Depth (TWD) =	<u>50.40</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>14.96</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>35.44</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x	<u>0.163</u>	= <u>5.77</u>	gal
3 Casing Volumes =	<u>17.33</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>		
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>		
Total Volume of Water Removed	<u>1.60</u>	gal	

Casing Diameter	<u>2.0</u>	inches
Casing Material	<u>PVC</u>	
Measuring Point Elevation	<u>148.26</u>	1/100 ft
Height of Riser (above land surface)	<u>-0.09</u>	1/100 ft
Land Surface Elevation	<u>148.35</u>	1/100 ft
Screened Interval	<u>40</u> - <u>50</u>	1/100 ft
Dedicated Pump or Bailer	YES ☒ NO ☐	Type <u>Fabing</u>
Steel Guard Pipe Around Casing	YES ☒ NO ☐	
Locking Cap	YES ☒ NO ☐	
Protective Post/Abutment	YES ☐ NO ☒	
Well Integrity Satisfactory	YES ☒ NO ☐	
Yield	LOW ☐ MODERATE ☐ HIGH ☒	
Comments/Observations		
Sample Time:	<u>1717</u>	
Sample Analytes:	<u>VOC'S</u>	
Hack Fe Kit:	<u>N/A</u> mg/L	

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)

TIME (Military)

Water Level (ft BTOC)

pH (S.U.)

Sp. Cond. (mS/cm)

Water Temp. (°C)

Turbidity (NTUs)

DO - (mg/L)

Salinity (ppt)

ORP (mV)

Initial	<u>.40</u>	<u>.80</u>	<u>1.20</u>	<u>1.60</u>					
	<u>1655</u>	<u>1700</u>	<u>1705</u>	<u>1710</u>	<u>1715</u>				
	<u>15.07</u>	<u>15.07</u>	<u>15.07</u>	<u>15.07</u>	<u>15.07</u>				
	<u>7.62</u>	<u>7.45</u>	<u>7.40</u>	<u>7.37</u>	<u>7.34</u>				
	<u>0.299</u>	<u>0.304</u>	<u>0.307</u>	<u>0.308</u>	<u>0.308</u>				
	<u>20.85</u>	<u>20.81</u>	<u>20.76</u>	<u>20.71</u>	<u>20.71</u>				
	<u>11.66</u>	<u>7.05</u>	<u>5.68</u>	<u>5.96</u>	<u>6.98</u>				
	<u>3.10</u>	<u>2.13</u>	<u>1.80</u>	<u>1.68</u>	<u>1.66</u>				
	<u>0.14</u>	<u>0.14</u>	<u>0.15</u>	<u>0.15</u>	<u>0.15</u>				
	<u>175.9</u>	<u>173.8</u>	<u>169.9</u>	<u>166.8</u>	<u>165.7</u>				

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 9, 2018
Field Personnel Randy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-24
Upgradient ☐ Downgradient ☒ Sidegradient ☐ Source ☐
Weather Conditions Clear / Sunny
Air Temperature 70 °F
Total Well Depth (TWD) = 21.00 1/100 ft
Depth to Ground Water (DGW) = 17.46 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 6.54 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 1.06 gal
3 Casing Volumes = 3.19 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.4 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation 147.85 1/100 ft
Height of Riser (above land surface) -0.67 1/100 ft
Land Surface Elevation 148.52 1/100 ft
Screened Interval 6 - 21 1/100 ft
Dedicated Pump or Bailer YES ☒ NO ☐ Type Pumping
Steel Guard Pipe Around Casing ☒ YES ☒ NO ☐
Locking Cap YES ☒ NO ☐
Protective Post/Abutment YES ☐ NO ☒
Well Integrity Satisfactory YES ☒ NO ☐
Yield LOW ☐ MODERATE ☐ HIGH ☒
Comments/Observations
Sample Time: 1240
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	40	80	1.20	1.60	2.0	2.4				
VOLUME PURGED (gallons)	12.08	12.13	12.18	12.23	12.28	12.33	12.38				
TIME (Military)	14.79	14.82	14.82	14.82	14.82	14.82	14.82				
Water Level (ft BTOC)	3.84	3.61	3.45	3.61	3.63	3.60	3.56				
pH (S.U.)	0.016	0.016	0.016	0.016	0.016	0.016	0.016				
Sp. Cond. (mS/cm)	20.57	20.38	20.29	20.36	20.30	20.40	20.59				
Water Temp. (°C)	55.73	21.16	14.51	8.60	9.10	6.75	5.03				
Turbidity (NTUs)	6.25	6.12	5.92	5.90	5.94	5.89	6.03				
DO - (mg/L)	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
Salinity (ppt)	381.2	399.1	405.9	402.8	401.9	408.8	406.2				
ORP (mV)											

COMMENTS/OBSERVATIONS

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 8 2018
 Field Personnel Randy Morgan
 Site Name UTC Delavan Spray Technologies Site
 AECOM Job # 60314964
 Sample ID* MW-25D
 Upgradient ☐ Downgradient ☒ Sidegradient ☐ Source ☐
 Weather Conditions Clear 15404
 Air Temperature 68 ° F
 Total Well Depth (TWD) = 62.00 1/100 ft
 Depth to Ground Water (DGW) = 6.47 1/100 ft
 Length of Water Column (LWC) = TWD - DGW = 55.53 1/100 ft
 1 Casing Volume (OCV)* = LWC x 0.163 = 9.05 gal
 3 Casing Volumes = 27.15 gal = Standard Evacuation Volume
 Method of Sample Evacuation Purge with Peristaltic Pump
 Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
 Total Volume of Water Removed 2.0 gal

Casing Diameter 2.0 inches
 Casing Material PVC
 Measuring Point Elevation 139.21 1/100 ft
 Height of Riser (above land surface) -0.09 1/100 ft
 Land Surface Elevation 139.30 1/100 ft
 Screened Interval 52 - 62 1/100 ft
 Dedicated Pump or Bailer YES ☒ NO ☐ Type Tubing
 Steel Guard Pipe Around Casing YES ☒ NO ☐
 Locking Cap YES ☒ NO ☐
 Protective Post/Abutment YES ☐ NO ☒
 Well Integrity Satisfactory YES ☒ NO ☐
 Yield LOW ☐ MODERATE ☐ HIGH ☒
 Comments/Observations
 Sample Time: 1055
 Sample Analytes: VOC'S
 Hack Fe Kit N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0					
VOLUME PURGED (gallons)	1028	10.33	1038	1043	1048	1053					
TIME (Military)	6.54	6.54	6.54	6.54	6.54	6.54					
Water Level (ft BTOC)	7.44	7.29	7.33	7.36	7.35	7.32					
pH (S.U.)	6.267	0.266	0.266	0.267	0.267	0.266					
Sp. Cond. (mS/cm)	18.95	19.34	19.51	19.58	19.64	19.64					
Water Temp. (°C)	16.43	17.57	10.76	7.34	26.10	5.60					
Turbidity (NTUs)	3.57	2.23	2.70	2.72	2.72	2.73					
DO - (mg/L)	0.13	0.13	0.13	0.13	0.13	0.13					
Salinity (ppt)	186.8	189.2	183.5	180.4	180.0	182.3					
ORP (mV)											

COMMENTS/OBSERVATIONS

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr) <u>May 8, 2018</u> Field Personnel <u>Randy Nargo</u> Site Name <u>UTC Delavan Spray Technologies Site</u> AECOM Job # <u>60314964</u> Sample ID* <u>MW-26D</u> ☐ Upgradient ☒ Downgradient ☐ Sidegradient ☐ Source Weather Conditions <u>Clear Buggy</u> Air Temperature <u>65</u> °F Total Well Depth (TWD) = <u>48.00</u> 1/100 ft Depth to Ground Water (DGW) = <u>11.06</u> 1/100 ft Length of Water Column (LWC) = TWD - DGW = <u>36.94</u> 1/100 ft 1 Casing Volume (OCV)* = LWC x <u>0.163</u> = <u>6.02</u> gal 3 Casing Volumes = <u>18.06</u> gal = Standard Evacuation Volume Method of Sample Evacuation <u>Purge with Peristaltic Pump</u> Method of Sample Collection <u>Peristaltic Pump Reverse Flow for VOC'S</u> Total Volume of Water Removed <u>2.40</u> gal	Casing Diameter <u>2.0</u> inches Casing Material <u>PVC</u> Measuring Point Elevation <u>143.64</u> 1/100 ft Height of Riser (above land surface) <u>-0.19</u> 1/100 ft Land Surface Elevation <u>143.83</u> 1/100 ft Screened Interval <u>38</u> - <u>48</u> 1/100 ft Dedicated Pump or Bailer YES ☒ NO ☐ Type <u>Testing</u> Steel Guard Pipe Around Casing YES ☒ NO ☐ Locking Cap YES ☒ NO ☐ Protective Post/Abutment YES ☐ NO ☒ Well Integrity Satisfactory YES ☒ NO ☐ Yield LOW ☐ MODERATE ☐ HIGH ☒ Comments/Observations <u>1017</u> Sample Time: <u>1017</u> Sample Analytes: <u>VOC'S</u> Hack Fe Kit: <u>N/A</u> mg/L
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* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0	2.40				
VOLUME PURGED (gallons)	0945	0950	0955	1000	1005	1010	1015				
TIME (Military)	11.12	11.11	11.11	11.11	11.11	11.11	11.11				
Water Level (ft BTOC)	7.25	6.96	7.15	7.05	7.36	7.35	7.31				
pH (S.U.)	0.272	0.273	0.273	0.273	0.272	0.273	0.273				
Sp. Cond. (mS/cm)	18.87	19.00	19.09	19.09	19.12	19.14	19.22				
Water Temp. (°C)	16.57	16.50	14.98	2.82	3.95	3.70	3.73				
Turbidity (NTUs)	3.48	2.92	2.58	2.57	2.49	2.60	2.50				
DO - (mg/L)	0.13	0.13	0.13	0.13	0.13	0.13	0.13				
Salinity (ppt)	190.9	201.1	190.1	195.6	179.3	177.7	183.3				
ORP (mV)											

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr) May 8, 2018
Field Personnel Randy Marga
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-27
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions Clear Sunny
Air Temperature 75 ° F
Total Well Depth (TWD) = 29.00 1/100 ft
Depth to Ground Water (DGW) = 9.44 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 19.56 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 3.18 gal
3 Casing Volumes = 9.56 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed 2.0 gal

Casing Diameter 2.0 inches
Casing Material PVC
Measuring Point Elevation _____ 1/100 ft
Height of Riser (above land surface) _____ 1/100 ft
Land Surface Elevation _____ 1/100 ft
Screened Interval 19 - 29 1/100 ft
Dedicated Pump or Bailer YES X NO _____ Type tubing
Steel Guard Pipe Around Casing YES X NO _____
Locking Cap YES X NO _____
Protective Post/Abutment YES _____ NO X
Well Integrity Satisfactory YES X NO _____
Yield LOW _____ MODERATE _____ HIGH X
Comments/Observations
Sample Time: 1335
Sample Analytes: VOC'S
Hack Fe Kit: N/A mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	1.40	1.80	2.20	2.60	3.00				
VOLUME PURGED (gallons)	1307	1312	1317	1322	1327	1332				
TIME (Military)	9.86	10.43	10.58	10.64	10.69	10.72				
Water Level (ft BTWC)	4.83	4.34	4.23	4.24	4.33	4.31				
pH (S.U.)	0.034	0.034	0.035	0.035	0.035	0.034				
Sp. Cond. (mS/cm)	21.78	21.41	21.41	21.39	21.56	21.60				
Water Temp. (°C)	16.00	11.85	11.03	10.81	4.96	3.89				
Turbidity (NTUs)	5.89	5.57	5.53	5.51	5.50	5.50				
DO - (mg/L)	0.01	0.01	0.01	0.01	0.01	0.01				
Salinity (ppt)	344.3	349.7	355.1	357.3	352.5	354.1				
ORP (mV)										

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 7 of 7

Date (mo/day/yr)	<u>May 8, 2018</u>	Casing Diameter	<u>2.0</u>	Inches
Field Personnel	<u>Randy Morgan</u>	Casing Material	<u>PVC</u>	
Site Name	<u>UTC Delavan Spray Technologies Site</u>	Measuring Point Elevation		1/100 ft
AECOM Job #	<u>60314964</u>	Height of Riser (above land surface)		1/100 ft
Sample ID*	<u>MW-28</u>	Land Surface Elevation		1/100 ft
Upgradient		Screened Interval	<u>19</u> - <u>29</u>	1/100 ft
Downgradient		Dedicated Pump or Bailer	YES ☒ NO ☒	Type <u>Fuging</u>
Sidegradient		Steel Guard Pipe Around Casing	YES ☒ NO ☒	
Source		Locking Cap	YES ☒ NO ☒	
Weather Conditions	<u>Clear/Sunny</u>	Protective Post/Abutment	YES ☒ NO ☒	
Air Temperature	<u>78</u> °F	Well Integrity Satisfactory	YES ☒ NO ☒	
Total Well Depth (TWD) =	<u>29.00</u>	Yield	LOW ☒ MODERATE ☒ HIGH ☒	
Depth to Ground Water (DGW) =	<u>12.95</u>	Comments/Observations		
Length of Water Column (LWC) = TWD - DGW =	<u>16.05</u>	Sample Time:	<u>1420</u>	
1 Casing Volume (OCV)* = LWC x 0.163	<u>2.61</u>	Sample Analytes:	<u>VOCs</u>	
3 Casing Volumes =	<u>7.84</u>	Hack Fe Kit:	<u>NA</u>	mg/L
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>			
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>			
Total Volume of Water Removed	<u>2.4</u>			

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.50	.80	1.20	1.60	2.0	2.4				
VOLUME PURGED (gallons)	<u>1348</u>	<u>1353</u>	<u>1358</u>	<u>1403</u>	<u>1408</u>	<u>1413</u>	<u>1418</u>				
TIME (Military)	<u>13.83</u>	<u>14.23</u>	<u>14.40</u>	<u>14.44</u>	<u>14.51</u>	<u>14.50</u>	<u>14.50</u>				
Water Level (ft BTOC)	<u>6.88</u>	<u>7.03</u>	<u>7.07</u>	<u>7.12</u>	<u>7.09</u>	<u>7.13</u>	<u>7.10</u>				
pH (S.U.)	<u>0.300</u>	<u>0.304</u>	<u>0.315</u>	<u>0.318</u>	<u>0.327</u>	<u>0.331</u>	<u>0.336</u>				
Sp. Cond. (mS/cm)	<u>22.35</u>	<u>22.09</u>	<u>22.07</u>	<u>22.36</u>	<u>22.28</u>	<u>22.33</u>	<u>22.36</u>				
Water Temp. (°C)	<u>41.41</u>	<u>36.40</u>	<u>28.47</u>	<u>26.41</u>	<u>21.19</u>	<u>16.42</u>	<u>10.82</u>				
Turbidity (NTUs)	<u>2.67</u>	<u>1.75</u>	<u>1.60</u>	<u>1.57</u>	<u>1.61</u>	<u>1.62</u>	<u>1.66</u>				
DO - (mg/L)	<u>0.14</u>	<u>0.14</u>	<u>0.15</u>	<u>0.15</u>	<u>0.16</u>	<u>0.16</u>	<u>0.16</u>				
Salinity (ppt)	<u>256.4</u>	<u>234.9</u>	<u>216.3</u>	<u>197.7</u>	<u>190.6</u>	<u>180.0</u>	<u>176.0</u>				
ORP (mV)											

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>May 8 2008</u>		
Field Personnel	<u>Randy Morgan</u>		
Site Name	<u>UTC Delavan Spray Technologies Site</u>		
AECOM Job #	<u>60314964</u>		
Sample ID*	<u>MW-29</u>		
Upgradient	Downgradient	Sidegradient	Source
Weather Conditions	<u>Clear / sunny</u>		
Air Temperature	<u>72</u>	° F	
Total Well Depth (TWD) =	<u>29.00</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>7.52</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>21.48</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x 0.163	<u>3.50</u>	gal	
3 Casing Volumes =	<u>10.50</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>		
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>		
Total Volume of Water Removed	<u>3.20</u>	gal	
Casing Diameter	<u>2.0</u>	inches	
Casing Material	<u>PVC</u>		
Measuring Point Elevation		1/100 ft	
Height of Riser (above land surface)		1/100 ft	
Land Surface Elevation		1/100 ft	
Screened Interval	<u>19</u> - <u>29</u>	1/100 ft	
Dedicated Pump or Bailer	YES <u>X</u> NO <u> </u>	Type	<u>Tubing</u>
Steel Guard Pipe Around Casing	YES <u>X</u> NO <u> </u>		
Locking Cap	YES <u> </u> NO <u> </u>		
Protective Post/Abutment	YES <u> </u> NO <u>X</u>		
Well Integrity Satisfactory	YES <u>X</u> NO <u> </u>		
Yield	LOW <u> </u> MODERATE <u> </u> HIGH <u>X</u>		
Comments/Observations	<u>1252</u>		
Sample Time:	<u>VOC'S</u>		
Sample Analytes:	<u>VOC'S</u>		
Hack Fe Kit:	<u>N/A</u> mg/L		

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	.40	.80	1.20	1.60	2.0	2.4	2.8	3.20		
VOLUME PURGED (gallons)	1210	1215	1220	1225	1230	1235	1240	1245	1250		
TIME (Military)	7.43	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99		
Water Level (ft BTOC)	6.21	5.38	5.31	5.40	5.30	5.27	5.32	5.28	5.33		
pH (S.U.)	0.053	0.052	0.054	0.055	0.055	0.056	0.058	0.059	0.060		
Sp. Cond. (mS/cm)	19.95	20.17	20.29	20.39	20.25	20.28	20.46	20.48	20.51		
Water Temp. (°C)	61.07	79.54	114.4	112.2	77.40	53.63	38.85	22.39	19.99		
Turbidity (NTUs)	2.86	1.58	1.22	1.21	1.20	1.09	1.05	1.03	1.02		
DO - (mg/L)	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03		
Salinity (ppt)	226.3	261.6	267.5	2680	271.3	270.6	263.9	265.8	260.5		
ORP (mV)											

COMMENTS/OBSERVATIONS



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	<u>May 8, 2018</u>		
Field Personnel	<u>Randy Morgan</u>		
Site Name	<u>UTC Delavan Spray Technologies Site</u>		
AECOM Job #			
Sample ID*	<u>MW-30D</u>		
Upgradient	Downgradient	Sidegradient	Source
Weather Conditions <u>Clear Sunny</u>			
Air Temperature	<u>62</u>	° F	
Total Well Depth (TWD) =	<u>59.78</u>	1/100 ft	
Depth to Ground Water (DGW) =	<u>5.59</u>	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	<u>54.21</u>	1/100 ft	
1 Casing Volume (OCV)* = LWC x	<u>0.163</u>	=	<u>8.83</u> gal
3 Casing Volumes =	<u>26.50</u>	gal = Standard Evacuation Volume	
Method of Sample Evacuation	<u>Purge with Peristaltic Pump</u>		
Method of Sample Collection	<u>Peristaltic Pump Reverse Flow for VOC'S</u>		
Total Volume of Water Removed	<u>2-80</u>	gal	
Casing Diameter	<u>2.0</u>	inches	
Casing Material	<u>PVC</u>		
Measuring Point Elevation	<u>N/A</u>	1/100 ft	
Height of Riser (above land surface)	<u>N/A</u>	1/100 ft	
Land Surface Elevation	<u>N/A</u>	1/100 ft	
Screened Interval	<u>49</u>	-	<u>59</u> 1/100 ft
Dedicated Pump or Bailer	YES <u>X</u>	NO	Type <u> tubing</u>
Steel Guard Pipe Around Casing	YES <u>X</u>	NO	
Locking Cap	YES <u>X</u>	NO	
Protective Post/Abutment	YES	NO <u>X</u>	
Well Integrity Satisfactory	YES <u>X</u>	NO	
Yield	LOW	MODERATE	HIGH <u>X</u>
Comments/Observations			
Sample Time: <u>0842</u>			
Sample Analytes: <u>VO C'S</u>			
Hack Fe Kit: <u>N/A</u> mg/L			

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial	1.40	1.80	1.20	1.60	2.0	2.4	2.80			
VOLUME PURGED (gallons)	0805	0810	0815	0820	0825	0830	0835	0840			
TIME (Military)	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59			
Water Level (ft BTOW)	7.46	7.42	7.43	7.41	7.32	7.32	7.27	7.24			
pH (S.U.)	0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264			
Sp. Cond. (mS/cm)	17.82	17.81	17.90	17.91	18.03	18.05	18.07	18.09			
Water Temp. (°C)	17.10	51.55	30.89	24.82	14.82	9.68	8.63	8.42			
Turbidity (NTUs)	4.43	3.73	3.24	3.08	3.13	3.15	3.16	3.16			
DO - (mg/L)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13			
Salinity (ppt)	88.3	100.6	116.5	126.3	139.8	143.1	150.9	152.1			
ORP (mV)											

COMMENTS/OBSERVATIONS

150' past deer feeder, pink flagging



FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	May 8, 2018		
Field Personnel	Randy Morgan		
Site Name	UTC Delavan Spray Technologies Site		
AECOM Job #	60314964		
Sample ID*	MW-32D R		
Upgradient	Downgradient	Sidegradient	Source
Weather Conditions Clear Sunny			
Air Temperature	68	° F	
Total Well Depth (TWD) =	53.65	1/100 ft	
Depth to Ground Water (DGW) =	7.54	1/100 ft	
Length of Water Column (LWC) = TWD - DGW =	46.11	1/100 ft	
1 Casing Volume (OCV)* = LWC x 0.163	= 7.51	gal	
3 Casing Volumes =	22.54	gal = Standard Evacuation Volume	
Method of Sample Evacuation	Purge with Peristaltic Pump		
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S		
Total Volume of Water Removed	2.0	gal	

Casing Diameter	2.0	inches
Casing Material	PVC	
Measuring Point Elevation	N/A	1/100 ft
Height of Riser (above land surface)	N/A	1/100 ft
Land Surface Elevation	N/A	1/100 ft
Screened Interval		1/100 ft
Dedicated Pump or Bailer	YES ☒ NO ☐	Type Tubing
Steel Guard Pipe Around Casing	YES ☒ NO ☐	
Locking Cap	YES ☒ NO ☐	
Protective Post/Abutment	YES ☐ NO ☒	
Well Integrity Satisfactory	YES ☒ NO ☐	
Yield	LOW ☐ MODERATE ☐ HIGH ☒	
Comments/Observations		
Sample Time: 1138		
Sample Analytes: VOCs Dup MW-320R-a		
Hack Fe Kit: N/A mg/L		

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.

Volume (in gallons) = $\pi r^2 h (7.48)$, where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)

TIME (Military)

Water Level (ft BTOC)

pH (S.U.)

Sp. Cond. (mS/cm)

Water Temp. (°C)

Turbidity (NTUs)

DO - (mg/L)

Salinity (ppt)

ORP (mV)

Initial	.40	.80	1.20	1.60	2.0					
	1111	1116	1121	1126	1131	1136				
	7.60	7.60	7.60	7.60	7.60	7.60				
	7.56	7.34	7.37	7.39	7.37	7.36				
	0.286	0.285	0.283	0.280	0.278	0.276				
	19.49	19.41	19.40	19.31	19.31	19.28				
	19.95	10.77	9.21	8.91	9.81	9.66				
	2.32	1.17	0.81	0.98	1.16	1.08				
	0.14	0.14	0.13	0.13	0.13	0.13				
	191.3	196.1	184.0	178.3	172.4	169.7				

COMMENTS/OBSERVATIONS

PROJECT: UTC Delavan
SITE NAME: UTC Delavan
LOCATION: Bamberg SC

[illegible]

PROJECT NUMBER: 60319964.17 DATE: 5-7-2018 REPORT NUMBER: 1 of 2

PROJECT & LOCATION: UTC Delavan Bamberg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Mayan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: mob to site from Greenville SC, open wells to equilibrate then comprehensive round of water levels, groundwater sampling. VOC's only this event PID reading now required of water level events.

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
		loaded equipment on Sunday 5-6-2018
0615		leave Greenville for UTC Delavan Bamberg SC
	0930	arrived on site - sign in get badge - Kenithsa is out working today - Wes no longer works for UTC our new contact is Devane Thomas - He is unfamiliar with responsibilities of GW sampling, where to put the drums ect. Devane will contact Kenithsa to find out where to put the drums, ect I will begin to open the wells to equilibrate and collect water levels
	1400	complete all except MW19 & MW20 contact Devane to see where to put IDW drums and get access to MW-19 & MW-20
		will continue to put IDW drums in waste disposal area (secured) the 2-IDW drums from last event are still on site.
		unload 3 drums into waste disposal area
		collect water levels at MW-19 & 20
1510	1530	calibrate YSI 556 S/N 082101000
1535		carry equipment across ditch with water flowing to MW-15
1545		begin to micro purge MW-15 with peristaltic pump
	1627	sampled MW-15 reverse flow
1633		carry equipment back across ditch to truck
1647		at MW-16 begin to micro purge w/ peristaltic pump
1712		had to change water quality meter due to bad pH readings

FIELD REPRESENTATIVES SIGNATURE: Randy Mayan DATE: 5-7-2018



PROJECT NUMBER: 60314964.17 DATE: 5-7-2018 REPORT NUMBER: 20f2

groundwater sampling

Page #:

[illegible]

FIELD REPRESENTATIVES SIGNATURE:

Randy Morgan

DATE:

5-7-2018

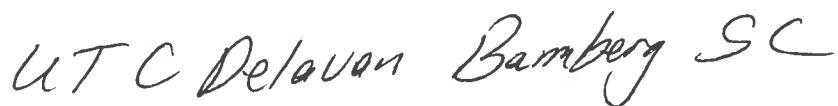
PROJECT NUMBER: 60314964.17 DATE: May 8, 2018 REPORT NUMBER: 1072
 PROJECT & LOCATION: UTC Delavan Bamberg SC
 CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan
 SUBCONTRACTOR: _____
 SUBCONTRACTOR PERSONNEL ON SITE: _____
 BRIEF SUMMARY OF WORK PERFORMED: groundwater sampling

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0610		Calibrate YSI 556 OH5116 AG in motel room before leaving
	0630	leave Fairfield Inn for UTC Delavan Bamberg SC
	0705	arrive on site - sign in
0715		at MW-310 begin to micro purge w/ peristaltic pump
	0747	sampled MW-310 reverse flow
0805		at MW-300 begin to micro purge w/ peristaltic pump
	0842	sampled MW-300 reverse flow
0903		at MW-220 begin to micro purge w/ peristaltic pump
	0925	sampled MW-220 reverse flow also dup MW-220-a
0945		at MW-260 begin to micro purge with peristaltic pump
	1017	sampled MW-260 reverse flow
1028		at MW-250 begin to micro purge with peristaltic pump
	1055	sampled MW-250 reverse flow
1111		at MW-320R begin to micro purge with peristaltic pump
	1138	sampled MW-320R reverse flow dup MW-320R-a
1245		empty purge water into 55 gal steel drum in waste disposal bldg.
1210		at MW-29 begin to micro purge w/ peristaltic pump
	1252	sampled MW-29 reverse flow
1307		at MW-27 begin to micro purge w/ peristaltic pump
		need to carry all equipment into MW-27 & 28 no access
	1335	sampled MW-27 reverse flow
1348		at MW-28 begin to micro purge w/ peristaltic pump

FIELD REPRESENTATIVES SIGNATURE: _____

Randy Morgan

DATE: 5-8-2018



PROJECT NUMBER: 60314964.17 DATE: May 8, 2018 REPORT NUMBER: 2012

groundwater sampling

Page #:

FIELD REPRESENTATIVES SIGNATURE:

Randy Merga

DATE:

5-8-2018

PROJECT NUMBER: 60314964.17 DATE: May 9, 2018 REPORT NUMBER: 1 of 2PROJECT & LOCATION: UTC Delavan Bamberg SCCLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: groundwater sampling

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0600		calibrate YSI 556 05H1116 AG in motel room before leaving
	0630	leave for UTC Delavan from Motel in Orangeburg
	0705	arrive on site sign in
0713		at MW-10 begin to micro purge w/ peristaltic pump
	0750	sampled MW-10 reverse flow
0803		at MW-9 begin to micro purge w/ peristaltic pump
	0835	sampled MW-9 reverse flow also collect MS/MSD sets
0855		at MW-3 begin to micro purge with peristaltic pump
	0922	sampled MW-3 reverse flow
0930		at MW-3D begin to micro purge with peristaltic pump
	0958	sampled MW-3D reverse flow also MS/MSD sets
1025		at MW-8 begin to micro purge with peristaltic pump
	1059	sampled MW-8 reverse flow
1113		at MW-5 begin to micro purge with peristaltic pump
	1150	sampled MW-5 reverse flow
1208		at MW-24 begin to micro purge with peristaltic pump
	1240	sampled MW-24 reverse flow
1245		empty purge water into 55 gal steel drum in waste disposal area
1255		off site to get ice to pack sampler for Fed Excavator to pick up today - bag ice & pack cooler.
1323		at MW-7 begin to micro purge with peristaltic pump
	1355	sampled MW-7 reverse flow
	1400	relinquish samples to shipping/recycling dept.

FIELD REPRESENTATIVES SIGNATURE: _____

Randy MorganDATE: 5-9-2018

Page #:

groundwater

FIELD REPRESENTATIVES SIGNATURE:

Randy Moya

DATE: _____

May 9, 2019

PROJECT NUMBER: 60314964.17 DATE: May 10, 2018 REPORT NUMBER: 101

PROJECT & LOCATION: UTC Delavan Bamberg SC

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Merga

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: groundwater sampling

START TIME	STOP TIME	DESCRIPTION OF ACTIVITIES: REMARKS
0700		calibrate YSI 536, SM 05H1116 AG water quality meter in motel room before leaving for site
	0730	leave for UTC Delavan
	0805	arrive on site - sign in
0815		at MW-14 begin to micro purge w/ peristaltic pump, low yield
	0907	sampled MW-14 reverse flow
0918		at MW-14D begin to micro purge w/ peristaltic pump
	1000	sampled MW-14D also dup MW-14D-a
1015		at MW-2 begin to micro purge w/ peristaltic pump
	1052	sampled MW-2 reverse flow
1058		at MW-21 begin to micro purge w/ peristaltic pump
	1125	sampled MW-21 reverse flow
		empty purge water into 55 gal steel drum in waste disposal area
	1155	collect composite IDW sample from the 2 drums called IDW-1
	1205	return badge leave site for lunch
	1400	relinquish samples to Fed Ex overnight delivery
	1600	return to Greenville and return equipment

FIELD REPRESENTATIVES SIGNATURE: _____

Randy Merga

DATE: 5/10/2018

APPENDIX B

ANALYTICAL DATA

Laboratory Reports – Accutest Southeast
Data Assessment Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

United Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60314964

SGS Job Number: FA54121

Sampling Dates: 05/07/18 - 05/09/18

Report to:

AECOM Environment
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com

ATTN: Doria Cullom

Total number of pages in report: **91**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	6
Section 3: Summary of Hits	9
Section 4: Sample Results	13
4.1: FA54121-1: TRIP BLANK	14
4.2: FA54121-2: MW-15	16
4.3: FA54121-3: MW-16	18
4.4: FA54121-4: MW-16D	20
4.5: FA54121-5: MW-31D	22
4.6: FA54121-6: MW-30D	24
4.7: FA54121-7: MW-22D	26
4.8: FA54121-8: MW-22D-A	28
4.9: FA54121-9: MW-26D	30
4.10: FA54121-10: MW-25D	32
4.11: FA54121-11: MW-32DR	34
4.12: FA54121-12: MW-32DR-A	36
4.13: FA54121-13: MW-29	38
4.14: FA54121-14: MW-27	40
4.15: FA54121-15: MW-28	42
4.16: FA54121-16: MW-12D	44
4.17: FA54121-17: MW-13D	46
4.18: FA54121-18: MW-23D	48
4.19: FA54121-19: MW-10	50
4.20: FA54121-20: MW-9	52
4.21: FA54121-21: MW-3	54
4.22: FA54121-22: MW-3D	56
4.23: FA54121-23: MW-8	58
4.24: FA54121-24: MW-5	60
4.25: FA54121-25: MW-24	62
4.26: FA54121-26: MW-7	64
Section 5: Misc. Forms	66
5.1: Chain of Custody	67
Section 6: MS Volatiles - QC Data Summaries	70
6.1: Method Blank Summary	71
6.2: Blank Spike Summary	78
6.3: Matrix Spike/Matrix Spike Duplicate Summary	85



Sample Summary

United Technologies Corporation

Job No: FA54121

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60314964

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA54121-1	05/07/18	00:00 RM	05/10/18	AQ	Trip Blank Water	TRIP BLANK
FA54121-2	05/07/18	16:27 RM	05/10/18	AQ	Ground Water	MW-15
FA54121-3	05/07/18	17:40 RM	05/10/18	AQ	Ground Water	MW-16
FA54121-4	05/07/18	18:20 RM	05/10/18	AQ	Ground Water	MW-16D
FA54121-5	05/08/18	07:47 RM	05/10/18	AQ	Ground Water	MW-31D
FA54121-6	05/08/18	08:42 RM	05/10/18	AQ	Ground Water	MW-30D
FA54121-7	05/08/18	09:25 RM	05/10/18	AQ	Ground Water	MW-22D
FA54121-8	05/08/18	09:25 RM	05/10/18	AQ	Ground Water	MW-22D-A
FA54121-9	05/08/18	10:17 RM	05/10/18	AQ	Ground Water	MW-26D
FA54121-10	05/08/18	10:55 RM	05/10/18	AQ	Ground Water	MW-25D
FA54121-11	05/08/18	11:38 RM	05/10/18	AQ	Ground Water	MW-32DR
FA54121-12	05/08/18	11:38 RM	05/10/18	AQ	Ground Water	MW-32DR-A
FA54121-13	05/08/18	12:52 RM	05/10/18	AQ	Ground Water	MW-29



Sample Summary
(continued)

United Technologies Corporation

Job No: FA54121

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60314964

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA54121-14	05/08/18	13:35 RM	05/10/18	AQ	Ground Water	MW-27
FA54121-15	05/08/18	14:20 RM	05/10/18	AQ	Ground Water	MW-28
FA54121-16	05/08/18	15:40 RM	05/10/18	AQ	Ground Water	MW-12D
FA54121-17	05/08/18	16:42 RM	05/10/18	AQ	Ground Water	MW-13D
FA54121-18	05/08/18	17:17 RM	05/10/18	AQ	Ground Water	MW-23D
FA54121-19	05/09/18	07:50 RM	05/10/18	AQ	Ground Water	MW-10
FA54121-20	05/09/18	08:35 RM	05/10/18	AQ	Ground Water	MW-9
FA54121-20D	05/09/18	08:35 RM	05/10/18	AQ	Water Dup/MSD	MW-9
FA54121-20S	05/09/18	08:35 RM	05/10/18	AQ	Water Matrix Spike	MW-9
FA54121-21	05/09/18	09:22 RM	05/10/18	AQ	Ground Water	MW-3
FA54121-22	05/09/18	09:58 RM	05/10/18	AQ	Ground Water	MW-3D
FA54121-22D	05/09/18	09:58 RM	05/10/18	AQ	Water Dup/MSD	MW-3D
FA54121-22S	05/09/18	09:58 RM	05/10/18	AQ	Water Matrix Spike	MW-3D



Sample Summary
(continued)

United Technologies Corporation

Job No: FA54121

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60314964

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA54121-23	05/09/18	10:57 RM	05/10/18	AQ	Ground Water	MW-8
FA54121-24	05/09/18	11:50 RM	05/10/18	AQ	Ground Water	MW-5
FA54121-25	05/09/18	12:40 RM	05/10/18	AQ	Ground Water	MW-24
FA54121-26	05/09/18	13:55 RM	05/10/18	AQ	Ground Water	MW-7

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: United Technologies Corporation

Job No: FA54121

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Report Date: 5/17/2018 9:49:31

25 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected between 05/07/2018 and 05/09/2018 and were received at SGS North America Inc - Orlando on 05/10/2018 properly preserved, at 2.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA54121. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ

Batch ID: V5E315

All samples were analyzed within the recommended method holding time.

Sample(s) FA54121-22MS, FA54121-22MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

FA54121-21: Sample was not preserved to a pH < 2.

FA54121-22: Sample was not preserved to a pH < 2.

FA54121-23: Sample was not preserved to a pH < 2.

FA54121-24: Sample was not preserved to a pH < 2.

FA54121-25: Sample was not preserved to a pH < 2.

FA54121-26: Sample was not preserved to a pH < 2.

Matrix: AQ

Batch ID: V5E317

All samples were analyzed within the recommended method holding time.

Sample(s) FA53944-13MS, FA53944-13MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

FA54121-21: Sample was not preserved to a pH < 2.

FA54121-23: Sample was not preserved to a pH < 2.

FA54121-25: Sample was not preserved to a pH < 2.

Matrix: AQ

Batch ID: VJ5905

All samples were analyzed within the recommended method holding time.

Sample(s) FA54121-20MS, FA54121-20MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

FA54121-1: Sample was not preserved to a pH < 2.

FA54121-1 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-1 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-2 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-2 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-2: Sample was not preserved to a pH < 2.

FA54121-3 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-3 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-3: Sample was not preserved to a pH < 2.

FA54121-4 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-4: Sample was not preserved to a pH < 2.

FA54121-4 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-5: Sample was not preserved to a pH < 2.

FA54121-5 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-5 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-6: Sample was not preserved to a pH < 2.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5905

FA54121-6 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-6 for Carbon Disulfide: Associated CCV outside of control limits high.

FA54121-7 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-7: Sample was not preserved to a pH < 2.

FA54121-7 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-8: Sample was not preserved to a pH < 2.

FA54121-8 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-8 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-9 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-9: Sample was not preserved to a pH < 2.

FA54121-9 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-10 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-10: Sample was not preserved to a pH < 2.

FA54121-10 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-11 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-11 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-11: Sample was not preserved to a pH < 2.

FA54121-12 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-12 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-12: Sample was not preserved to a pH < 2.

FA54121-13 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-13 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-13: Sample was not preserved to a pH < 2.

FA54121-14 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-14: Sample was not preserved to a pH < 2.

FA54121-14 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-15 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-15 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-15: Sample was not preserved to a pH < 2.

FA54121-16 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-16 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-16: Sample was not preserved to a pH < 2.

FA54121-17 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-17: Sample was not preserved to a pH < 2.

FA54121-17 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-18 for Chloroethane: Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

FA54121-18: Sample was not preserved to a pH < 2.

FA54121-18 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-19: Sample was not preserved to a pH < 2.

FA54121-20: Sample was not preserved to a pH < 2. Confirmation run.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5907

All samples were analyzed within the recommended method holding time.

Sample(s) FA54121-17MS, FA54121-17MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

FA54121-19 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54121-19 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-19 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54121-20 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54121-20 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54121-20 for Chloroethane: Associated ICV outside control limits high, however sample ND.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Tegan Straughen, Login and Rep Gen Tech (signature on file)

Summary of Hits

Job Number: FA54121
Account: United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 05/07/18 thru 05/09/18



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FA54121-1 TRIP BLANK

No hits reported in this sample.

FA54121-2 MW-15

No hits reported in this sample.

FA54121-3 MW-16

No hits reported in this sample.

FA54121-4 MW-16D

No hits reported in this sample.

FA54121-5 MW-31D

1,1-Dichloroethylene ^a	6.0	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	2.5	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	181	5.0	1.1	ug/l	SW846 8260B
Trichloroethylene ^a	1.0	1.0	0.35	ug/l	SW846 8260B

FA54121-6 MW-30D

Carbon Disulfide ^b	0.65 J	2.0	0.53	ug/l	SW846 8260B
1,1-Dichloroethylene ^a	3.1	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	0.97 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	86.7	2.0	0.43	ug/l	SW846 8260B
Trichloroethylene ^a	1.1	1.0	0.35	ug/l	SW846 8260B

FA54121-7 MW-22D

1,1-Dichloroethylene ^a	2.9	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	0.93 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	106	2.0	0.43	ug/l	SW846 8260B
Trichloroethylene ^a	0.79 J	1.0	0.35	ug/l	SW846 8260B

FA54121-8 MW-22D-A

1,1-Dichloroethylene ^a	2.9	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	0.90 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	99.0	2.0	0.43	ug/l	SW846 8260B
Trichloroethylene ^a	0.91 J	1.0	0.35	ug/l	SW846 8260B

Summary of Hits

Job Number: FA54121
Account: United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 05/07/18 thru 05/09/18

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FA54121-9 MW-26D

1,1-Dichloroethylene ^a	2.0	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	1.2	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene ^a	88.6	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene ^a	1.2	1.0	0.35	ug/l	SW846 8260B

FA54121-10 MW-25D

1,1-Dichloroethylene ^a	3.8	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	1.4	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	123	5.0	1.1	ug/l	SW846 8260B
Trichloroethylene ^a	0.98 J	1.0	0.35	ug/l	SW846 8260B

FA54121-11 MW-32DR

Chloroform ^a	0.56 J	1.0	0.30	ug/l	SW846 8260B
1,1-Dichloroethylene ^a	0.97 J	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	0.55 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene ^a	30.4	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene ^a	0.55 J	1.0	0.35	ug/l	SW846 8260B

FA54121-12 MW-32DR-A

Chloroform ^a	0.68 J	1.0	0.30	ug/l	SW846 8260B
1,1-Dichloroethylene ^a	0.82 J	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	0.52 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene ^a	24.4	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene ^a	0.48 J	1.0	0.35	ug/l	SW846 8260B

FA54121-13 MW-29

No hits reported in this sample.

FA54121-14 MW-27

No hits reported in this sample.

FA54121-15 MW-28

No hits reported in this sample.

FA54121-16 MW-12D

1,1-Dichloroethylene ^a	0.55 J	1.0	0.32	ug/l	SW846 8260B
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Summary of Hits

Job Number: FA54121
Account: United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 05/07/18 thru 05/09/18

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Tetrachloroethylene ^a		33.5	1.0	0.22	ug/l	SW846 8260B
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FA54121-17 MW-13D

1,1-Dichloroethylene ^a		2.9	1.0	0.32	ug/l	SW846 8260B
Tetrachloroethylene		92.5	5.0	1.1	ug/l	SW846 8260B
1,1,1-Trichloroethane ^a		0.92 J	1.0	0.25	ug/l	SW846 8260B

FA54121-18 MW-23D

No hits reported in this sample.

FA54121-19 MW-10

1,1-Dichloroethylene		2.4	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a		136	10	2.8	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.42 J	1.0	0.22	ug/l	SW846 8260B
Tetrachloroethylene ^a		180	10	2.2	ug/l	SW846 8260B
1,1,1-Trichloroethane		0.26 J	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene		98.6	1.0	0.35	ug/l	SW846 8260B

FA54121-20 MW-9

cis-1,2-Dichloroethylene		5.9	5.0	1.4	ug/l	SW846 8260B
Tetrachloroethylene		466	5.0	1.1	ug/l	SW846 8260B
Trichloroethylene		46.5	5.0	1.7	ug/l	SW846 8260B

FA54121-21 MW-3

Tetrachloroethylene ^a		95.2	2.0	0.43	ug/l	SW846 8260B
Trichloroethylene ^a		1.2	1.0	0.35	ug/l	SW846 8260B

FA54121-22 MW-3D

1,1-Dichloroethylene ^a		6.7	5.0	1.6	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a		7.0	5.0	1.4	ug/l	SW846 8260B
Tetrachloroethylene ^a		299	5.0	1.1	ug/l	SW846 8260B
Trichloroethylene ^a		7.4	5.0	1.7	ug/l	SW846 8260B

FA54121-23 MW-8

cis-1,2-Dichloroethylene ^a		0.90 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene ^a		81.6	2.0	0.43	ug/l	SW846 8260B
Trichloroethylene ^a		10.4	1.0	0.35	ug/l	SW846 8260B

Summary of Hits

Job Number: FA54121
Account: United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 05/07/18 thru 05/09/18



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FA54121-24 MW-5

Tetrachloroethylene ^a	27.7	1.0	0.22	ug/l	SW846 8260B
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FA54121-25 MW-24

cis-1,2-Dichloroethylene ^a	43.5	20	5.5	ug/l	SW846 8260B
Tetrachloroethylene ^a	2050	25	5.4	ug/l	SW846 8260B

FA54121-26 MW-7

No hits reported in this sample.

- (a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Associated CCV outside of control limits high.



Orlando, FL

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-1	Date Received:	05/10/18
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991283.D	1	05/11/18 10:02	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-1	Date Received:	05/10/18
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-2	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991284.D	1	05/11/18 10:29	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-15	Date Sampled: 05/07/18
Lab Sample ID: FA54121-2	Date Received: 05/10/18
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-3	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991285.D	1	05/11/18 10:55	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-3	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16D	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-4	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991286.D	1	05/11/18 11:21	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16D	Date Sampled:	05/07/18
Lab Sample ID:	FA54121-4	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-5	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991287.D	1	05/11/18 11:47	MM	n/a	n/a	VJ5905
Run #2	J0991344.D	5	05/14/18 11:38	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	6.0	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.5	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	181 ^d	5.0	1.1	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	1.0	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-5	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	79-125%
2037-26-5	Toluene-D8	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	100%	103%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-6	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991288.D	1	05/11/18 12:13	MM	n/a	n/a	VJ5905
Run #2	J0991345.D	2	05/14/18 12:04	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	0.65	2.0	0.53	ug/l	J
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	3.1	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.97	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	86.7 ^d	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	1.1	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-6	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	108%	79-125%
2037-26-5	Toluene-D8	96%	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	101%	83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-7	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991289.D	1	05/11/18 12:39	MM	n/a	n/a	VJ5905
Run #2	J0991346.D	2	05/14/18 12:30	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.9	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.93	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	106 ^d	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.79	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-22D	
Lab Sample ID: FA54121-7	Date Sampled: 05/08/18
Matrix: AQ - Ground Water	Date Received: 05/10/18
Method: SW846 8260B	Percent Solids: n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	109%	79-125%
2037-26-5	Toluene-D8	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22D-A	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-8	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991290.D	1	05/11/18 13:05	MM	n/a	n/a	VJ5905
Run #2	J0991347.D	2	05/14/18 12:55	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.9	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.90	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	99.0 ^d	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.91	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22D-A	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-8	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	109%	79-125%
2037-26-5	Toluene-D8	97%	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-9	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991291.D	1	05/11/18 13:31	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.0	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	88.6	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	1.2	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-9	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25D		
Lab Sample ID:	FA54121-10	Date Sampled:	05/08/18
Matrix:	AQ - Ground Water	Date Received:	05/10/18
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991292.D	1	05/11/18 13:57	MM	n/a	n/a	VJ5905
Run #2	J0991349.D	5	05/14/18 13:49	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	3.8	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.4	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	123 ^d	5.0	1.1	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.98	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-10	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	108%	79-125%
2037-26-5	Toluene-D8	97%	97%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32DR	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-11	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991293.D	1	05/11/18 14:23	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	0.56	1.0	0.30	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.97	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.55	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	30.4	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.55	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32DR	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-11	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32DR-A	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-12	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991294.D	1	05/11/18 14:49	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	0.68	1.0	0.30	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.82	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.52	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	24.4	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.48	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32DR-A	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-12	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-13	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991295.D	1	05/11/18 15:15	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-13	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-14	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991296.D	1	05/11/18 15:41	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-14	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-15	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991297.D	1	05/11/18 16:08	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-15	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-16	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991298.D	1	05/11/18 16:34	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.55	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	33.5	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-16	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-17	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991299.D	1	05/11/18 17:00	MM	n/a	n/a	VJ5905
Run #2	J0991348.D	5	05/14/18 13:21	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.9	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	92.5 ^d	5.0	1.1	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.92	1.0	0.25	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-17	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	108%	79-125%
2037-26-5	Toluene-D8	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-18	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991300.D	1	05/11/18 17:26	MM	n/a	n/a	VJ5905
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D	Date Sampled:	05/08/18
Lab Sample ID:	FA54121-18	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated ICV outside control limits high, however sample ND. Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-19	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991341.D	1	05/14/18 10:45	MM	n/a	n/a	VJ5907
Run #2 ^a	J0991301.D	10	05/11/18 17:52	MM	n/a	n/a	VJ5905

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.4	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	136 ^d	10	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.42	1.0	0.22	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	180 ^d	10	2.2	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.26	1.0	0.25	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	98.6	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-19	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	110%	79-125%
2037-26-5	Toluene-D8	98%	96%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-20	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991343.D	5	05/14/18 11:11	MM	n/a	n/a	VJ5907
Run #2 ^a	J0991302.D	10	05/11/18 18:19	MM	n/a	n/a	VJ5905

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide ^b	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane ^c	ND	10	3.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	5.9	5.0	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
74-83-9	Methyl Bromide	ND	10	2.9	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
100-42-5	Styrene	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
127-18-4	Tetrachloroethylene	466	5.0	1.1	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	46.5	5.0	1.7	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-20	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	5.0	2.0	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	108%	79-125%
2037-26-5	Toluene-D8	99%	97%	85-112%
460-00-4	4-Bromofluorobenzene	102%	99%	83-118%

- (a) Sample was not preserved to a pH < 2. Confirmation run.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-21	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5E7916.D	1	05/11/18 16:18	SO	n/a	n/a	V5E315
Run #2 ^a	5E7962.D	2	05/14/18 11:51	SO	n/a	n/a	V5E317

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	95.2 ^b	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	1.2	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-21	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	104%	79-125%
2037-26-5	Toluene-D8	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	97%	83-118%

(a) Sample was not preserved to a pH < 2.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3D	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-22	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5E7906.D	5	05/11/18 12:15	SO	n/a	n/a	V5E315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	3.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	6.7	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	7.0	5.0	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
74-83-9	Methyl Bromide	ND	10	2.9	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
100-42-5	Styrene	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
127-18-4	Tetrachloroethylene	299	5.0	1.1	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	7.4	5.0	1.7	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3D	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-22	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	5.0	2.0	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-23	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5E7917.D	1	05/11/18 16:42	SO	n/a	n/a	V5E315
Run #2 ^a	5E7963.D	2	05/14/18 12:16	SO	n/a	n/a	V5E317

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.90	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	81.6 ^b	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	10.4	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-23	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	103%	79-125%
2037-26-5	Toluene-D8	101%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	83-118%

- (a) Sample was not preserved to a pH < 2.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-24	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5E7918.D	1	05/11/18 17:07	SO	n/a	n/a	V5E315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	27.7	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-24	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-24	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-25	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5E7919.D	20	05/11/18 17:31	SO	n/a	n/a	V5E315
Run #2 ^a	5E7964.D	25	05/14/18 12:40	SO	n/a	n/a	V5E317

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	200	ug/l	
71-43-2	Benzene	ND	20	6.2	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.8	ug/l	
75-25-2	Bromoform	ND	20	8.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	40	ug/l	
75-15-0	Carbon Disulfide	ND	40	11	ug/l	
56-23-5	Carbon Tetrachloride	ND	20	7.1	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	13	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
124-48-1	Dibromochloromethane	ND	20	5.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	6.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	6.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	43.5	20	5.5	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	4.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	8.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.8	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.3	ug/l	
100-41-4	Ethylbenzene	ND	20	7.1	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
74-83-9	Methyl Bromide	ND	40	12	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	20	ug/l	
100-42-5	Styrene	ND	20	4.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
127-18-4	Tetrachloroethylene	2050 ^b	25	5.4	ug/l	
108-88-3	Toluene	ND	20	6.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	9.3	ug/l	
79-01-6	Trichloroethylene	ND	20	6.9	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-24	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-25	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	20	8.2	ug/l	
1330-20-7	Xylene (total)	ND	60	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	104%	79-125%
2037-26-5	Toluene-D8	100%	100%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	83-118%

- (a) Sample was not preserved to a pH < 2.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-26	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5E7920.D	1	05/11/18 17:55	SO	n/a	n/a	V5E315
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7	Date Sampled:	05/09/18
Lab Sample ID:	FA54121-26	Date Received:	05/10/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA54121

AECOM Chain of Custody and Analytical Request										Page 1 of 2			
Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC										Project Number: 60314964			
Client Name: UTC										Chain of Custody Number (0):			
Collected by: Randy Morgan										LIMS Number:			
Project Manager: Walter Gerald 864-234-8925													
Sample ID	Date Collected (dd-mm-yy)	Time Collected (Military) (hh:mm)	See Comments	Sample Information	TCL VOC's (8260B)	TCL SVOC's (8270D)	P/P Metals (6010C/7470B)	Sample Analysis Requested			Quality Assurance Samples	Comments	Cooler ID
Trip Blank 1	07-May-2018		X	Groundwater	X								
MW-15 2	07-May-2018	1627	X		X								
MW-16 3	07-May-2018	1740	X		X								
MW-16D 4	07-May-2018	1820	X		X								
MW-31D 5	08-May-2018	0747	X		X								
MW-32D 6	08-May-2018	0842	X		X								
MW-22D 7	08-May-2018	0925	X		X								
MW-22D-a8 8	08-May-2018	0925	X		X								
MW-26D 9	08-May-2018	1017	X		X								
MW-25D 10	08-May-2018	1055	X		X								
MW-32DR 11	08-May-2018	1138	X		X								
MW-32DR-a12 12	08-May-2018	1138	X		X								
MW-29 13	08-May-2018	1252	X		X								
MW-27 14	08-May-2018	1335	X		X								
MW-28 15	08-May-2018	1420	X		X								

Custody Transfers Prior to Receipt by Laboratory				Sample Delivery Details / Laboratory Receipt			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	Delivered Directly to Lab:	Shipped: XXXX
Randy Morgan	5-9-2018	1400	LF Ex	05/10/18	930	Method of Shipment: Fed Ex	Airbill #: 8133 7208 2709
	Fed Ex					Analytical Lab: Accutest	Location: Orlando FLA
						Lab Recipient:	Date: Time:

1.) Chain of Custody Number = date collected + custody number (E.G. 01-19-2004-01)

AECOM CHEMIST - Dori Cullom 8 864-234-8928 doria.cullom@aecom.com

VOC's are unpreserved 7 Day Holding Time

(216)

52745\admin\project control\project forms\Blank COC

FA54121: Chain of Custody

Page 1 of 3

FA54121

AECOM Chain of Custody and Analytical Request										Page 2 of 2	
Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC										Project Number: 60314964	
Client Name: UTC										Chain of Custody Number (1):	
Collected by: Randy Morgan										Project Manager: Walter Gerald 864-234-8925	
Sample Analysis Requested										Quality Assurance Samples	
TCL VOC's (8260B)										TCL SVOC's (8270D)	
P/P Metals (6010C/7470B)										Cooler ID	
COMMENTS											
Sample ID	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hh:mm)	See Comments	Sample Information	TCL VOC's (8260B)	TCL SVOC's (8270D)	P/P Metals (6010C/7470B)				
MW-120 16	08-May-2018	1540	X	Groundwater	X						
MW-130 17	08-May-2018	1642	X		X						
MW-230 18	08-May-2018	1717	X		X						
MW-10 19	09-May-2018	0750	X		X						
MW-9 20	09-May-2018	0835	X		X						
MW-9-MS20	09-May-2018	0835	X		X						
MW-9-MS20	09-May-2018	0835	X		X						
MW-3 21	09-May-2018	0922	X		X						
MW-30 22	09-May-2018	0958	X		X						
MW-30-MS22	09-May-2018	0958	X		X						
MW-30-MS22	09-May-2018	0958	X		X						
MW-8 23	09-May-2018	1057	X		X						
MW-5 24	09-May-2018	1150	X		X						
MW-24 25	09-May-2018	1240	X		X						
MW-7 26	09-May-2018	1355	X		X						

Custody Transfers Prior to Receipt by Laboratory				Sample Delivery Details / Laboratory Receipt			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	Delivered Directly to Lab:	Shipped:
Randy Morgan	5-9-2018	1400	Fed Ex	05/10/18	930	Method of Shipment: Fed Ex	XXXX
						Analytical Lab: Accutest	Airbill #: 8133 7208 2709
						Lab Recipient:	Location: Orlando FLA
							Date: Time:

1.) Chain of Custody Number = date collected + custody number (E.G. 01-19-2004-01)

VOC's are unpreserved 7 Day Holding Time

AECOM CHEMIST - Dori Cullom 8 864-234-8928 doria.cullom@aecom.com

52745admm\project control\project forms\Blank COC

FA54121: Chain of Custody

Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA54121 **Client:** AECOM **Project:** UTC DELAVAN SPRAY TECH
Date / Time Received: 5/10/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #s:** 1002239581360003281100813372082709

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1
Cooler Temps (Raw Measured) °C: Cooler 1: (2.2);
Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	☒		☐
2. Custody Seals Intact	☒		☐
3. Temp criteria achieved	☒		☐
4. Cooler temp verification	<u>IR Gun</u>		
5. Cooler media	<u>Ice (Bag)</u>		

Trip Blank Information

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	☒		☐	☐
2. Trip Blank listed on COC	☒		☐	☐
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type Of TB Received	☒		☐	☐

Sample Information

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Sample labels present on bottles	☒		☐	
2. Samples preserved properly	☒		☐	
3. Sufficient volume/containers recvd for analysis:	☒		☐	
4. Condition of sample	<u>Intact</u>			
5. Sample recvd within HT	☒		☐	
6. Dates/Times/IDs on COC match Sample Label	☒		☐	
7. VOCs have headspace	☐		☒	☐
8. Bottles received for unspecified tests	☐		☒	
9. Compositing instructions clear	☐		☐	☒
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☒
11. % Solids Jar received?	☐		☐	☒
12. Residual Chlorine Present?	☐		☐	☒

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____
 Test Strip Lot #s: pH 0-3 _____ 230315 _____
 Residual Chlorine Test Strip Lot #: _____

Number of 5035 Field Kits: _____
 pH 10-12 _____ 219813A _____

Number of Lab Filtered Metals: _____
 Other: (Specify) _____

Comments

SM001
 Rev. Date 05/24/17

Technician: SHAYLAP

Date: 5/10/2018 9:30:00 AM

Reviewer: _____

Date: _____

FA54121: Chain of Custody

Page 3 of 3

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: FA54121**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5905-MB	J0991282.D	1	05/11/18	MM	n/a	n/a	VJ5905

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54121-1, FA54121-2, FA54121-3, FA54121-4, FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-9, FA54121-10, FA54121-11, FA54121-12, FA54121-13, FA54121-14, FA54121-15, FA54121-16, FA54121-17, FA54121-18, FA54121-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

Method Blank Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5905-MB	J0991282.D	1	05/11/18	MM	n/a	n/a	VJ5905

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-1, FA54121-2, FA54121-3, FA54121-4, FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-9, FA54121-10, FA54121-11, FA54121-12, FA54121-13, FA54121-14, FA54121-15, FA54121-16, FA54121-17, FA54121-18, FA54121-19

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 83-118%
17060-07-0	1,2-Dichloroethane-D4	109% 79-125%
2037-26-5	Toluene-D8	96% 85-112%
460-00-4	4-Bromofluorobenzene	99% 83-118%

Method Blank Summary

Page 1 of 2

Job Number: FA54121**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E315-MB	5E7900.D	1	05/11/18	SO	n/a	n/a	V5E315

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54121-21, FA54121-22, FA54121-23, FA54121-24, FA54121-25, FA54121-26

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

Method Blank Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E315-MB	5E7900.D	1	05/11/18	SO	n/a	n/a	V5E315

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-21, FA54121-22, FA54121-23, FA54121-24, FA54121-25, FA54121-26

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 83-118%
17060-07-0	1,2-Dichloroethane-D4	100% 79-125%
2037-26-5	Toluene-D8	101% 85-112%
460-00-4	4-Bromofluorobenzene	98% 83-118%

Method Blank Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E317-MB	5E7957.D	1	05/14/18	SO	n/a	n/a	V5E317

The QC reported here applies to the following samples: Method: SW846 8260B
FA54121-21, FA54121-23, FA54121-25

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 83-118%
17060-07-0	1,2-Dichloroethane-D4	102% 79-125%
2037-26-5	Toluene-D8	100% 85-112%
460-00-4	4-Bromofluorobenzene	98% 83-118%

Method Blank Summary

Page 1 of 2

Job Number: FA54121**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-MB	J0991340.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-10, FA54121-17, FA54121-19, FA54121-20

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

Method Blank Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-MB	J0991340.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-10, FA54121-17, FA54121-19, FA54121-20

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 83-118%
17060-07-0	1,2-Dichloroethane-D4	109% 79-125%
2037-26-5	Toluene-D8	98% 85-112%
460-00-4	4-Bromofluorobenzene	95% 83-118%

Blank Spike Summary

Page 1 of 2

Job Number: FA54121**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5905-BS	J0991281.D	1	05/11/18	MM	n/a	n/a	VJ5905

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54121-1, FA54121-2, FA54121-3, FA54121-4, FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-9, FA54121-10, FA54121-11, FA54121-12, FA54121-13, FA54121-14, FA54121-15, FA54121-16, FA54121-17, FA54121-18, FA54121-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	111	89	50-147
71-43-2	Benzene	25	26.3	105	81-122
75-27-4	Bromodichloromethane	25	27.4	110	79-123
75-25-2	Bromoform	25	22.8	91	66-123
78-93-3	2-Butanone (MEK)	125	116	93	56-143
75-15-0	Carbon Disulfide	25	27.5	110	66-148
56-23-5	Carbon Tetrachloride	25	27.7	111	76-136
108-90-7	Chlorobenzene	25	25.2	101	82-124
75-00-3	Chloroethane	25	28.5	114	62-144
67-66-3	Chloroform	25	24.7	99	80-124
124-48-1	Dibromochloromethane	25	24.8	99	78-122
75-34-3	1,1-Dichloroethane	25	26.8	107	81-122
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
75-35-4	1,1-Dichloroethylene	25	27.3	109	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.8	103	76-127
78-87-5	1,2-Dichloropropane	25	25.8	103	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.3	97	75-118
10061-02-6	trans-1,3-Dichloropropene	25	23.9	96	80-120
100-41-4	Ethylbenzene	25	26.8	107	81-121
591-78-6	2-Hexanone	125	121	97	61-129
74-83-9	Methyl Bromide	25	26.3	105	59-143
74-87-3	Methyl Chloride	25	24.7	99	50-159
75-09-2	Methylene Chloride	25	23.8	95	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	123	98	66-122
100-42-5	Styrene	25	26.6	106	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	72-120
127-18-4	Tetrachloroethylene	25	25.4	102	76-135
108-88-3	Toluene	25	26.7	107	80-120
71-55-6	1,1,1-Trichloroethane	25	26.6	106	75-130
79-00-5	1,1,2-Trichloroethane	25	24.7	99	76-119
79-01-6	Trichloroethylene	25	26.3	105	81-126
75-01-4	Vinyl Chloride	25	27.0	108	69-159
1330-20-7	Xylene (total)	75	82.0	109	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5905-BS	J0991281.D	1	05/11/18	MM	n/a	n/a	VJ5905

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-1, FA54121-2, FA54121-3, FA54121-4, FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-9, FA54121-10, FA54121-11, FA54121-12, FA54121-13, FA54121-14, FA54121-15, FA54121-16, FA54121-17, FA54121-18, FA54121-19

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 2

Job Number: FA54121**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E315-BS	5E7899.D	1	05/11/18	SO	n/a	n/a	V5E315

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54121-21, FA54121-22, FA54121-23, FA54121-24, FA54121-25, FA54121-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	103	82	50-147
71-43-2	Benzene	25	27.2	109	81-122
75-27-4	Bromodichloromethane	25	28.5	114	79-123
75-25-2	Bromoform	25	27.0	108	66-123
78-93-3	2-Butanone (MEK)	125	106	85	56-143
75-15-0	Carbon Disulfide	25	23.9	96	66-148
56-23-5	Carbon Tetrachloride	25	30.3	121	76-136
108-90-7	Chlorobenzene	25	26.8	107	82-124
75-00-3	Chloroethane	25	27.2	109	62-144
67-66-3	Chloroform	25	27.6	110	80-124
124-48-1	Dibromochloromethane	25	27.1	108	78-122
75-34-3	1,1-Dichloroethane	25	28.9	116	81-122
107-06-2	1,2-Dichloroethane	25	26.5	106	75-125
75-35-4	1,1-Dichloroethylene	25	27.7	111	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.6	106	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.9	116	76-127
78-87-5	1,2-Dichloropropane	25	25.7	103	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.1	100	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.5	106	80-120
100-41-4	Ethylbenzene	25	28.1	112	81-121
591-78-6	2-Hexanone	125	105	84	61-129
74-83-9	Methyl Bromide	25	26.2	105	59-143
74-87-3	Methyl Chloride	25	22.2	89	50-159
75-09-2	Methylene Chloride	25	24.3	97	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	109	87	66-122
100-42-5	Styrene	25	26.5	106	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	26.5	106	72-120
127-18-4	Tetrachloroethylene	25	29.4	118	76-135
108-88-3	Toluene	25	26.6	106	80-120
71-55-6	1,1,1-Trichloroethane	25	29.6	118	75-130
79-00-5	1,1,2-Trichloroethane	25	26.7	107	76-119
79-01-6	Trichloroethylene	25	26.7	107	81-126
75-01-4	Vinyl Chloride	25	25.6	102	69-159
1330-20-7	Xylene (total)	75	79.9	107	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E315-BS	5E7899.D	1	05/11/18	SO	n/a	n/a	V5E315

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-21, FA54121-22, FA54121-23, FA54121-24, FA54121-25, FA54121-26

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E317-BS	5E7956.D	1	05/14/18	SO	n/a	n/a	V5E317

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-21, FA54121-23, FA54121-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethylene	25	27.2	109	76-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 2

Job Number: FA54121**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-BS	J0991339.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-10, FA54121-17, FA54121-19, FA54121-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	146	117	50-147
71-43-2	Benzene	25	27.2	109	81-122
75-27-4	Bromodichloromethane	25	28.6	114	79-123
75-25-2	Bromoform	25	25.4	102	66-123
78-93-3	2-Butanone (MEK)	125	137	110	56-143
75-15-0	Carbon Disulfide	25	30.5	122	66-148
56-23-5	Carbon Tetrachloride	25	29.5	118	76-136
108-90-7	Chlorobenzene	25	26.1	104	82-124
75-00-3	Chloroethane	25	25.7	103	62-144
67-66-3	Chloroform	25	25.7	103	80-124
124-48-1	Dibromochloromethane	25	26.2	105	78-122
75-34-3	1,1-Dichloroethane	25	28.4	114	81-122
107-06-2	1,2-Dichloroethane	25	25.4	102	75-125
75-35-4	1,1-Dichloroethylene	25	29.4	118	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.7	107	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.2	109	76-127
78-87-5	1,2-Dichloropropane	25	26.2	105	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.6	102	80-120
100-41-4	Ethylbenzene	25	28.3	113	81-121
591-78-6	2-Hexanone	125	131	105	61-129
74-83-9	Methyl Bromide	25	30.0	120	59-143
74-87-3	Methyl Chloride	25	31.0	124	50-159
75-09-2	Methylene Chloride	25	25.8	103	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	133	106	66-122
100-42-5	Styrene	25	27.4	110	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	72-120
127-18-4	Tetrachloroethylene	25	26.1	104	76-135
108-88-3	Toluene	25	27.9	112	80-120
71-55-6	1,1,1-Trichloroethane	25	27.6	110	75-130
79-00-5	1,1,2-Trichloroethane	25	25.5	102	76-119
79-01-6	Trichloroethylene	25	27.2	109	81-126
75-01-4	Vinyl Chloride	25	32.6	130	69-159
1330-20-7	Xylene (total)	75	85.8	114	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-BS	J0991339.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples: Method: SW846 8260B
FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-10, FA54121-17, FA54121-19, FA54121-20

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA54121

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-22MS	5E7921.D	5	05/11/18	SO	n/a	n/a	V5E315
FA54121-22MSD	5E7922.D	5	05/11/18	SO	n/a	n/a	V5E315
FA54121-22 ^a	5E7906.D	5	05/11/18	SO	n/a	n/a	V5E315

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54121-21, FA54121-22, FA54121-23, FA54121-24, FA54121-25, FA54121-26

CAS No.	Compound	FA54121-22 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	625	489	78	625	456	73	7	50-147/21
71-43-2	Benzene	ND	125	135	108	125	132	106	2	81-122/14
75-27-4	Bromodichloromethane	ND	125	147	118	125	140	112	5	79-123/19
75-25-2	Bromoform	ND	125	133	106	125	129	103	3	66-123/21
78-93-3	2-Butanone (MEK)	ND	625	511	82	625	474	76	8	56-143/18
75-15-0	Carbon Disulfide	ND	125	117	94	125	112	90	4	66-148/23
56-23-5	Carbon Tetrachloride	ND	125	159	127	125	149	119	6	76-136/23
108-90-7	Chlorobenzene	ND	125	135	108	125	128	102	5	82-124/14
75-00-3	Chloroethane	ND	125	122	98	125	118	94	3	62-144/20
67-66-3	Chloroform	ND	125	140	112	125	134	107	4	80-124/15
124-48-1	Dibromochloromethane	ND	125	135	108	125	130	104	4	78-122/19
75-34-3	1,1-Dichloroethane	ND	125	143	114	125	138	110	4	81-122/15
107-06-2	1,2-Dichloroethane	ND	125	142	114	125	134	107	6	75-125/14
75-35-4	1,1-Dichloroethylene	6.7	125	145	111	125	139	106	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	7.0	125	133	101	125	131	99	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND	125	140	112	125	135	108	4	76-127/17
78-87-5	1,2-Dichloropropane	ND	125	126	101	125	123	98	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND	125	124	99	125	119	95	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND	125	130	104	125	126	101	3	80-120/22
100-41-4	Ethylbenzene	ND	125	140	112	125	134	107	4	81-121/14
591-78-6	2-Hexanone	ND	625	519	83	625	474	76	9	61-129/18
74-83-9	Methyl Bromide	ND	125	118	94	125	119	95	1	59-143/19
74-87-3	Methyl Chloride	ND	125	101	81	125	102	82	1	50-159/19
75-09-2	Methylene Chloride	ND	125	128	102	125	123	98	4	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	625	522	84	625	484	77	8	66-122/16
100-42-5	Styrene	ND	125	132	106	125	127	102	4	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND	125	125	100	125	124	99	1	72-120/14
127-18-4	Tetrachloroethylene	299	125	398	79	125	397	78	0	76-135/16
108-88-3	Toluene	ND	125	128	102	125	125	100	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND	125	155	124	125	145	116	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND	125	128	102	125	125	100	2	76-119/14
79-01-6	Trichloroethylene	7.4	125	144	109	125	136	103	6	81-126/15
75-01-4	Vinyl Chloride	ND	125	112	90	125	115	92	3	69-159/18
1330-20-7	Xylene (total)	ND	375	402	107	375	389	104	3	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: FA54121

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-22MS	5E7921.D	5	05/11/18	SO	n/a	n/a	V5E315
FA54121-22MSD	5E7922.D	5	05/11/18	SO	n/a	n/a	V5E315
FA54121-22 ^a	5E7906.D	5	05/11/18	SO	n/a	n/a	V5E315

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54121-21, FA54121-22, FA54121-23, FA54121-24, FA54121-25, FA54121-26

CAS No.	Surrogate Recoveries	MS	MSD	FA54121-22	Limits
1868-53-7	Dibromofluoromethane	105%	104%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	105%	97%	79-125%
2037-26-5	Toluene-D8	98%	98%	96%	85-112%
460-00-4	4-Bromofluorobenzene	96%	99%	103%	83-118%

(a) Sample was not preserved to a pH < 2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA54121

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-20MS	J0991303.D	10	05/11/18	MM	n/a	n/a	VJ5905
FA54121-20MSD	J0991304.D	10	05/11/18	MM	n/a	n/a	VJ5905
FA54121-20 ^a	J0991302.D	10	05/11/18	MM	n/a	n/a	VJ5905

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54121-1, FA54121-2, FA54121-3, FA54121-4, FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-9, FA54121-10, FA54121-11, FA54121-12, FA54121-13, FA54121-14, FA54121-15, FA54121-16, FA54121-17, FA54121-18, FA54121-19

CAS No.	Compound	FA54121-20 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1230	98	1250	1170	94	50-147/21
71-43-2	Benzene	ND		250	272	109	250	278	111	81-122/14
75-27-4	Bromodichloromethane	ND		250	281	112	250	286	114	79-123/19
75-25-2	Bromoform	ND		250	215	86	250	231	92	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	1320	106	1250	1260	101	56-143/18
75-15-0	Carbon Disulfide	ND		250	271	108	250	283	113	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	283	113	250	295	118	76-136/23
108-90-7	Chlorobenzene	ND		250	258	103	250	269	108	82-124/14
75-00-3	Chloroethane	ND		250	260	104	250	257	103	62-144/20
67-66-3	Chloroform	ND		250	262	105	250	269	108	80-124/15
124-48-1	Dibromochloromethane	ND		250	243	97	250	249	100	78-122/19
75-34-3	1,1-Dichloroethane	ND		250	282	113	250	290	116	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	255	102	250	260	104	75-125/14
75-35-4	1,1-Dichloroethylene	ND		250	269	108	250	283	113	78-137/18
156-59-2	cis-1,2-Dichloroethylene	4.6	J	250	263	103	250	272	107	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	263	105	250	279	112	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	263	105	250	274	110	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		250	248	99	250	252	101	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	234	94	250	242	97	80-120/22
100-41-4	Ethylbenzene	ND		250	275	110	250	284	114	81-121/14
591-78-6	2-Hexanone	ND		1250	1310	105	1250	1260	101	61-129/18
74-83-9	Methyl Bromide	ND		250	243	97	250	250	100	59-143/19
74-87-3	Methyl Chloride	ND		250	239	96	250	245	98	50-159/19
75-09-2	Methylene Chloride	ND		250	255	102	250	265	106	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	1360	109	1250	1310	105	66-122/16
100-42-5	Styrene	ND		250	266	106	250	276	110	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	264	106	250	264	106	72-120/14
127-18-4	Tetrachloroethylene	392		250	723	132	250	711	128	76-135/16
108-88-3	Toluene	ND		250	270	108	250	276	110	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		250	273	109	250	279	112	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	251	100	250	252	101	76-119/14
79-01-6	Trichloroethylene	43.1		250	328	114	250	325	113	81-126/15
75-01-4	Vinyl Chloride	ND		250	255	102	250	268	107	69-159/18
1330-20-7	Xylene (total)	ND		750	833	111	750	860	115	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: FA54121

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-20MS	J0991303.D	10	05/11/18	MM	n/a	n/a	VJ5905
FA54121-20MSD	J0991304.D	10	05/11/18	MM	n/a	n/a	VJ5905
FA54121-20 ^a	J0991302.D	10	05/11/18	MM	n/a	n/a	VJ5905

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54121-1, FA54121-2, FA54121-3, FA54121-4, FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-9, FA54121-10, FA54121-11, FA54121-12, FA54121-13, FA54121-14, FA54121-15, FA54121-16, FA54121-17, FA54121-18, FA54121-19

CAS No.	Surrogate Recoveries	MS	MSD	FA54121-20	Limits
1868-53-7	Dibromofluoromethane	100%	101%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	101%	108%	79-125%
2037-26-5	Toluene-D8	97%	97%	97%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	99%	83-118%

(a) Sample was not preserved to a pH < 2. Confirmation run.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53944-13MS	5E7979.D	5	05/14/18	SO	n/a	n/a	V5E317
FA53944-13MSD	5E7980.D	5	05/14/18	SO	n/a	n/a	V5E317
FA53944-13	5E7966.D	5	05/14/18	SO	n/a	n/a	V5E317

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-21, FA54121-23, FA54121-25

CAS No.	Compound	FA53944-13 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	ND	125		151	121	125	140	112	8	76-135/16

CAS No.	Surrogate Recoveries	MS	MSD	FA53944-13	Limits
1868-53-7	Dibromofluoromethane	104%	102%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	102%	109%	79-125%
2037-26-5	Toluene-D8	98%	93%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA54121

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-17MS	J0991362.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17MSD	J0991363.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17	J0991348.D	5	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-10, FA54121-17, FA54121-19, FA54121-20

CAS No.	Compound	FA54121-17 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		625	717	115	625	718	115	0	50-147/21
71-43-2	Benzene	ND		125	137	110	125	140	112	2	81-122/14
75-27-4	Bromodichloromethane	ND		125	145	116	125	142	114	2	79-123/19
75-25-2	Bromoform	ND		125	117	94	125	119	95	2	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	720	115	625	701	112	3	56-143/18
75-15-0	Carbon Disulfide	ND		125	144	115	125	151	121	5	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	146	117	125	155	124	6	76-136/23
108-90-7	Chlorobenzene	ND		125	133	106	125	134	107	1	82-124/14
75-00-3	Chloroethane	ND		125	128	102	125	123	98	4	62-144/20
67-66-3	Chloroform	1.7	J	125	130	103	125	132	104	2	80-124/15
124-48-1	Dibromochloromethane	ND		125	126	101	125	130	104	3	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	141	113	125	146	117	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	130	104	125	131	105	1	75-125/14
75-35-4	1,1-Dichloroethylene	1.9	J	125	144	114	125	151	119	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	131	105	125	136	109	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	131	105	125	139	111	6	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	134	107	125	137	110	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	123	98	125	128	102	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	121	97	125	124	99	2	80-120/22
100-41-4	Ethylbenzene	ND		125	139	111	125	144	115	4	81-121/14
591-78-6	2-Hexanone	ND		625	698	112	625	692	111	1	61-129/18
74-83-9	Methyl Bromide	ND		125	137	110	125	142	114	4	59-143/19
74-87-3	Methyl Chloride	ND		125	145	116	125	149	119	3	50-159/19
75-09-2	Methylene Chloride	ND		125	135	108	125	138	110	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	708	113	625	706	113	0	66-122/16
100-42-5	Styrene	ND		125	137	110	125	139	111	1	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	133	106	125	142	114	7	72-120/14
127-18-4	Tetrachloroethylene	92.5		125	249	125	125	254	129	2	76-135/16
108-88-3	Toluene	ND		125	137	110	125	140	112	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	138	110	125	141	113	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	127	102	125	128	102	1	76-119/14
79-01-6	Trichloroethylene	ND		125	136	109	125	140	112	3	81-126/15
75-01-4	Vinyl Chloride	ND		125	150	120	125	160	128	6	69-159/18
1330-20-7	Xylene (total)	ND		375	427	114	375	434	116	2	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54121
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-17MS	J0991362.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17MSD	J0991363.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17	J0991348.D	5	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples: Method: SW846 8260B

FA54121-5, FA54121-6, FA54121-7, FA54121-8, FA54121-10, FA54121-17, FA54121-19, FA54121-20

CAS No.	Surrogate Recoveries	MS	MSD	FA54121-17	Limits
1868-53-7	Dibromofluoromethane	100%	101%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	104%	108%	79-125%
2037-26-5	Toluene-D8	98%	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	99%	83-118%

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

United Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60314964

SGS Job Number: FA54151

Sampling Dates: 05/09/18 - 05/10/18

Report to:

AECOM Environment
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com

ATTN: Doria Cullom

Total number of pages in report: 72



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	6
Section 4: Sample Results	8
4.1: FA54151-1: TRIP BLANK	9
4.2: FA54151-2: MW-1	11
4.3: FA54151-3: MW-19	13
4.4: FA54151-4: MW-20	15
4.5: FA54151-5: MW-21D	17
4.6: FA54151-6: MW-14	19
4.7: FA54151-7: MW-14D	21
4.8: FA54151-8: MW-14D-A	23
4.9: FA54151-9: MW-2	25
4.10: FA54151-10: MW-21	27
4.11: FA54151-11: IDW-1	29
Section 5: Misc. Forms	35
5.1: Chain of Custody	36
Section 6: MS Volatiles - QC Data Summaries	38
6.1: Method Blank Summary	39
6.2: Blank Spike Summary	43
6.3: Matrix Spike/Matrix Spike Duplicate Summary	47
Section 7: MS Semi-volatiles - QC Data Summaries	51
7.1: Method Blank Summary	52
7.2: Blank Spike Summary	55
7.3: Matrix Spike/Matrix Spike Duplicate Summary	58
Section 8: Metals Analysis - QC Data Summaries	61
8.1: Prep QC MP33742: Hg	62
8.2: Prep QC MP33754: Sb,As,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,Zn	67



Sample Summary

United Technologies Corporation

Job No: FA54151

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60314964

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA54151-1	05/09/18	00:00	RM	05/11/18	AQ Trip Blank Water	TRIP BLANK
FA54151-2	05/09/18	14:52	RM	05/11/18	AQ Ground Water	MW-1
FA54151-3	05/09/18	15:50	RM	05/11/18	AQ Ground Water	MW-19
FA54151-4	05/09/18	16:42	RM	05/11/18	AQ Ground Water	MW-20
FA54151-5	05/09/18	17:42	RM	05/11/18	AQ Ground Water	MW-21D
FA54151-6	05/10/18	09:07	RM	05/11/18	AQ Ground Water	MW-14
FA54151-7	05/10/18	10:00	RM	05/11/18	AQ Ground Water	MW-14D
FA54151-8	05/10/18	10:00	RM	05/11/18	AQ Ground Water	MW-14D-A
FA54151-9	05/10/18	10:52	RM	05/11/18	AQ Ground Water	MW-2
FA54151-10	05/10/18	11:25	RM	05/11/18	AQ Ground Water	MW-21
FA54151-11	05/10/18	11:55	RM	05/11/18	AQ Ground Water	IDW-1

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: United Technologies Corporation

Job No: FA54151

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Report Date: 5/22/2018 12:04:58

10 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on/ between 05/09/2018 and 05/10/2018 and were received at SGS North America Inc - Orlando on 05/11/2018 properly preserved, at 3 Deg. C and intact. These Samples received an SGS Orlando job number of FA54151. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ

Batch ID: VJ5907

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA54121-17MS, FA54121-17MSD were used as the QC samples indicated.

FA54151-1 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-1 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-1 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-2: Sample was not preserved to a pH < 2.

FA54151-3 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-3 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-3 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-4 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-4 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-4 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-5 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-5 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-5 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-5: Sample was not preserved to a pH < 2.

FA54151-7 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-7 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-7 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-8 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-8 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-8 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-9 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-9 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-9 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-10 for Acetone: Associated CCV outside of control limits high, sample was ND.

FA54151-10 for Carbon Disulfide: Associated CCV outside of control limits high, sample was ND.

FA54151-10 for Chloroethane: Associated ICV outside control limits high, however sample ND.

FA54151-11: Confirmation run.

Matrix: AQ

Batch ID: VJ5909

All samples were analyzed within the recommended method holding time.

Sample(s) FA54058-1MS, FA54058-1MSD were used as the QC samples indicated.

Sample(s) FA54151-11 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.

Matrix Spike Recovery(s) for 1,1-Dichloroethane, 4-Methyl-2-pentanone (MIBK) are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2-Dichloroethane, 1,2-Dichloropropane, 4-Methyl-2-pentanone (MIBK), Benzene, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methylene Chloride, Styrene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene, Xylene (total) are outside control limits.

MS Volatiles By Method SW846 8260B

Matrix: AQ

Batch ID: VJ5909

RPD(s) for MSD for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, Bromoform are outside control limits for sample FA54058-1MSD. Probable cause is due to sample non-homogeneity.

FA54151-2: Sample was not preserved to a pH < 2.

FA54151-5: Sample was not preserved to a pH < 2.

FA54151-6: Sample was not preserved to a pH < 2.

FA54151-10: Sample was not preserved to a pH < 2.

FA54151-11: Sample was not preserved to a pH < 2.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ

Batch ID: OP70077

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA54151-11MS, FA54151-11MSD were used as the QC samples indicated.

Metals Analysis By Method SW846 6010D

Matrix: AQ

Batch ID: MP33754

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA54151-11DUP, FA54151-11MS, FA54151-11MSD, FA54151-11PS, FA54151-11SDL were used as the QC samples.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33754-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Chromium, Zinc are outside control limits for sample MP33754-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ

Batch ID: MP33742

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA54150-4DUP, FA54150-4MS, FA54150-4MSD, FA54150-4SDL were used as the QC samples.

RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP33742-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Tegan Straughen, Login and Rep Gen Tech (signature on file)

Summary of Hits

Job Number: FA54151
Account: United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 05/09/18 thru 05/10/18

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

FA54151-1 TRIP BLANK

No hits reported in this sample.

FA54151-2 MW-1

cis-1,2-Dichloroethylene ^a	12.1	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene ^a	298	20	4.3	ug/l	SW846 8260B
Trichloroethylene ^a	8.1	1.0	0.35	ug/l	SW846 8260B

FA54151-3 MW-19

Chloroform	92.4 J	250	75	ug/l	SW846 8260B
Tetrachloroethylene	18700	250	54	ug/l	SW846 8260B
1,1,1-Trichloroethane	69.5 J	250	62	ug/l	SW846 8260B

FA54151-4 MW-20

cis-1,2-Dichloroethylene	3.3 J	5.0	1.4	ug/l	SW846 8260B
Tetrachloroethylene	388	5.0	1.1	ug/l	SW846 8260B
Trichloroethylene	3.9 J	5.0	1.7	ug/l	SW846 8260B

FA54151-5 MW-21D

1,1-Dichloroethylene ^a	1.6	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	0.52 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene ^a	109	2.0	0.43	ug/l	SW846 8260B

FA54151-6 MW-14

Tetrachloroethylene ^a	1.3	1.0	0.22	ug/l	SW846 8260B
----------------------------------	-----	-----	------	------	-------------

FA54151-7 MW-14D

1,1-Dichloroethylene	1.1	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.61 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	59.9	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene	0.56 J	1.0	0.35	ug/l	SW846 8260B

FA54151-8 MW-14D-A

1,1-Dichloroethylene	1.1	1.0	0.32	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.57 J	1.0	0.28	ug/l	SW846 8260B
Tetrachloroethylene	64.4	1.0	0.22	ug/l	SW846 8260B
Trichloroethylene	0.51 J	1.0	0.35	ug/l	SW846 8260B

Summary of Hits

Job Number: FA54151
Account: United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 05/09/18 thru 05/10/18

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

FA54151-9 MW-2

Tetrachloroethylene	1.3	1.0	0.22	ug/l	SW846 8260B
---------------------	-----	-----	------	------	-------------

FA54151-10 MW-21

Chloroform	98.8 J	250	75	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	777	250	69	ug/l	SW846 8260B
Tetrachloroethylene ^a	25600	500	110	ug/l	SW846 8260B
Trichloroethylene	311	250	86	ug/l	SW846 8260B

FA54151-11 IDW-1

Chloroform ^a	3.3 JB	5.0	1.5	ug/l	SW846 8260B
cis-1,2-Dichloroethylene ^a	13.4	5.0	1.4	ug/l	SW846 8260B
Tetrachloroethylene ^a	400	5.0	1.1	ug/l	SW846 8260B
Trichloroethylene ^a	5.8	5.0	1.7	ug/l	SW846 8260B
Chromium	3.9 J	10	1.0	ug/l	SW846 6010D
Zinc	7.7 J	20	4.4	ug/l	SW846 6010D

(a) Sample was not preserved to a pH < 2.



Orlando, FL

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-1	Date Received:	05/11/18
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991350.D	1	05/14/18 14:15	MM	n/a	n/a	VJ5907
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^a	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-1	Date Received:	05/11/18
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	111%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-2	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991382.D	1	05/15/18 15:58	SP	n/a	n/a	VJ5909
Run #2 ^a	J0991351.D	20	05/14/18 14:41	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	12.1	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	298 ^b	20	4.3	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	8.1	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-2	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	109%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	99%	109%	83-118%

(a) Sample was not preserved to a pH < 2.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-3	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991352.D	250	05/14/18 15:07	MM	n/a	n/a	VJ5907
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	6300	2500	ug/l	
71-43-2	Benzene	ND	250	78	ug/l	
75-27-4	Bromodichloromethane	ND	250	61	ug/l	
75-25-2	Bromoform	ND	250	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	1300	500	ug/l	
75-15-0	Carbon Disulfide ^a	ND	500	130	ug/l	
56-23-5	Carbon Tetrachloride	ND	250	89	ug/l	
108-90-7	Chlorobenzene	ND	250	50	ug/l	
75-00-3	Chloroethane ^b	ND	500	170	ug/l	
67-66-3	Chloroform	92.4	250	75	ug/l	J
124-48-1	Dibromochloromethane	ND	250	69	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	85	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	78	ug/l	
75-35-4	1,1-Dichloroethylene	ND	250	81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	250	69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	250	55	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	110	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	54	ug/l	
100-41-4	Ethylbenzene	ND	250	89	ug/l	
591-78-6	2-Hexanone	ND	2500	500	ug/l	
74-83-9	Methyl Bromide	ND	500	150	ug/l	
74-87-3	Methyl Chloride	ND	500	130	ug/l	
75-09-2	Methylene Chloride	ND	1300	500	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	250	ug/l	
100-42-5	Styrene	ND	250	56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	75	ug/l	
127-18-4	Tetrachloroethylene	18700	250	54	ug/l	
108-88-3	Toluene	ND	250	75	ug/l	
71-55-6	1,1,1-Trichloroethane	69.5	250	62	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	250	120	ug/l	
79-01-6	Trichloroethylene	ND	250	86	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-3	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	250	100	ug/l	
1330-20-7	Xylene (total)	ND	750	180	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-4	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991353.D	5	05/14/18 15:33	MM	n/a	n/a	VJ5907
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide ^a	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane ^b	ND	10	3.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.3	5.0	1.4	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
74-83-9	Methyl Bromide	ND	10	2.9	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
100-42-5	Styrene	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
127-18-4	Tetrachloroethylene	388	5.0	1.1	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	3.9	5.0	1.7	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-4	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	5.0	2.0	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

- (a) Associated CCV outside of control limits high, sample was ND.
(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID:	MW-21D	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-5	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991354.D	1	05/14/18 15:59	MM	n/a	n/a	VJ5907
Run #2 ^a	J0991383.D	2	05/15/18 16:23	SP	n/a	n/a	VJ5909

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^b	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^c	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.6	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.52	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	109 ^d	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21D	Date Sampled:	05/09/18
Lab Sample ID:	FA54151-5	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	105%	79-125%
2037-26-5	Toluene-D8	100%	98%	85-112%
460-00-4	4-Bromofluorobenzene	105%	100%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-6	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991384.D	1	05/15/18 16:49	SP	n/a	n/a	VJ5909
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	1.3	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-6	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-7	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991356.D	1	05/14/18 16:53	MM	n/a	n/a	VJ5907
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^a	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.1	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.61	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	59.9	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.56	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-7	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

- (a) Associated CCV outside of control limits high, sample was ND.
(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D-A	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-8	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991357.D	1	05/14/18 17:18	MM	n/a	n/a	VJ5907
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^a	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.1	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.57	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	64.4	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.51	1.0	0.35	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D-A	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-8	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

- (a) Associated CCV outside of control limits high, sample was ND.
(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-9	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991358.D	1	05/14/18 17:45	MM	n/a	n/a	VJ5907
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide ^a	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane ^b	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	1.3	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-9	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated ICV outside control limits high, however sample ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-10	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0991359.D	250	05/14/18 18:11	MM	n/a	n/a	VJ5907
Run #2 ^a	J0991385.D	500	05/15/18 17:15	SP	n/a	n/a	VJ5909

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	6300	2500	ug/l	
71-43-2	Benzene	ND	250	78	ug/l	
75-27-4	Bromodichloromethane	ND	250	61	ug/l	
75-25-2	Bromoform	ND	250	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	1300	500	ug/l	
75-15-0	Carbon Disulfide ^b	ND	500	130	ug/l	
56-23-5	Carbon Tetrachloride	ND	250	89	ug/l	
108-90-7	Chlorobenzene	ND	250	50	ug/l	
75-00-3	Chloroethane ^c	ND	500	170	ug/l	
67-66-3	Chloroform	98.8	250	75	ug/l	J
124-48-1	Dibromochloromethane	ND	250	69	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	85	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	78	ug/l	
75-35-4	1,1-Dichloroethylene	ND	250	81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	777	250	69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	250	55	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	110	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	54	ug/l	
100-41-4	Ethylbenzene	ND	250	89	ug/l	
591-78-6	2-Hexanone	ND	2500	500	ug/l	
74-83-9	Methyl Bromide	ND	500	150	ug/l	
74-87-3	Methyl Chloride	ND	500	130	ug/l	
75-09-2	Methylene Chloride	ND	1300	500	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	250	ug/l	
100-42-5	Styrene	ND	250	56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	75	ug/l	
127-18-4	Tetrachloroethylene	25600 ^d	500	110	ug/l	
108-88-3	Toluene	ND	250	75	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	120	ug/l	
79-01-6	Trichloroethylene	311	250	86	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-10	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	250	100	ug/l	
1330-20-7	Xylene (total)	ND	750	180	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	105%	79-125%
2037-26-5	Toluene-D8	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	83-118%

- (a) Sample was not preserved to a pH < 2.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Associated ICV outside control limits high, however sample ND.
 (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IDW-1	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-11	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J0991386.D	5	05/15/18 17:41	SP	n/a	n/a	VJ5909
Run #2 ^b	J0991360.D	10	05/14/18 18:37	MM	n/a	n/a	VJ5907

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	3.3	ug/l	
67-66-3	Chloroform	3.3	5.0	1.5	ug/l	JB
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	13.4	5.0	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
74-83-9	Methyl Bromide	ND	10	2.9	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
100-42-5	Styrene	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
127-18-4	Tetrachloroethylene	400	5.0	1.1	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	5.8	5.0	1.7	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IDW-1	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-11	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	5.0	2.0	ug/l	
1330-20-7	Xylene (total)	ND	15	3.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	79-125%
2037-26-5	Toluene-D8	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	101%	83-118%

(a) Sample was not preserved to a pH < 2.

(b) Confirmation run.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IDW-1	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-11	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X060234.D	1	05/17/18 01:07	MV	05/16/18 11:00	OP70077	SX2514
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	49	9.7	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.61	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.81	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.7	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.54	ug/l	
	3&4-Methylphenol	ND	4.9	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.83	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	24	4.9	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.72	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.73	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.62	ug/l	
120-12-7	Anthracene	ND	4.9	0.77	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.74	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.76	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.75	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.80	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.83	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.82	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.97	ug/l	
86-74-8	Carbazole	ND	4.9	0.58	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.71	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.9	0.73	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IDW-1	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-11	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.52	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.78	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.58	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	4.9	0.62	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.97	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.97	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.97	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.97	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.79	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.69	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.68	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.67	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.69	ug/l	
78-59-1	Isophorone	ND	4.9	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.58	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.85	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.9	0.65	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.78	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.84	ug/l	
129-00-0	Pyrene	ND	4.9	0.66	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		14-67%
4165-62-2	Phenol-d5	12%		10-50%
118-79-6	2,4,6-Tribromophenol	66%		33-118%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IDW-1	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-11	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	56%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	IDW-1	Date Sampled:	05/10/18
Lab Sample ID:	FA54151-11	Date Received:	05/11/18
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	1.0 U	6.0	1.0	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Arsenic	1.3 U	10	1.3	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Beryllium	0.20 U	4.0	0.20	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Cadmium	0.20 U	5.0	0.20	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Chromium	3.9 J	10	1.0	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Copper	1.0 U	25	1.0	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Lead	1.1 U	5.0	1.1	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Mercury	0.030 U	0.50	0.030	ug/l	1	05/15/18	05/15/18	JC	SW846 7470A ¹ SW846 7470A ³
Nickel	0.40 U	40	0.40	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Selenium	2.9 U	10	2.9	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Silver	0.70 U	10	0.70	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Thallium	1.4 U	10	1.4	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴
Zinc	7.7 J	20	4.4	ug/l	1	05/17/18	05/17/18	LM	SW846 6010D ² SW846 3010A ⁴

- (1) Instrument QC Batch: MA14900
- (2) Instrument QC Batch: MA14904
- (3) Prep QC Batch: MP33742
- (4) Prep QC Batch: MP33754

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA54151

[illegible]

1.) Chain of Custody Number = date collected + custody number (E.G. 01-19-2004-01)

Chain of Custody Number = date collected + custody number (E.G. 01-19-2004-01)

All VOC's are non preserved
7 day holding times

3.0

AECOM CHEMIST - Dori Cullom 8 864-234-8928 doria.cullom@aecom.com

52745\admin\project control\project forms\Blank COC

SGS Sample Receipt Summary

Job Number: FA54151 **Client:** AECOM **Project:** UTC DELAVAN SPRAY
Date / Time Received: 5/11/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #s:** 1002239581510003281100813372082710

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1
Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);
Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Information

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present	☒		☐
2. Custody Seals Intact	☒		☐
3. Temp criteria achieved	☒		☐
4. Cooler temp verification	<u>IR Gun</u>		
5. Cooler media	<u>Ice (Bag)</u>		

Trip Blank Information

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler	☒		☐	☐
2. Trip Blank listed on COC	☒		☐	☐
	<u>W</u>	<u>or</u>	<u>S</u>	<u>N/A</u>
3. Type Of TB Received	☒		☐	☐

Sample Information

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Sample labels present on bottles	☒		☐	
2. Samples preserved properly	☒		☐	
3. Sufficient volume/containers recvd for analysis:	☒		☐	
4. Condition of sample	<u>Intact</u>			
5. Sample recvd within HT	☒		☐	
6. Dates/Times/IDs on COC match Sample Label	☒		☐	
7. VOCs have headspace	☐		☒	☐
8. Bottles received for unspecified tests	☐		☒	
9. Compositing instructions clear	☐		☐	☒
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☒
11. % Solids Jar received?	☐		☐	☒
12. Residual Chlorine Present?	☐		☐	☒

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____
 Test Strip Lot #s: pH 0-3 _____ 230315 _____
 Residual Chlorine Test Strip Lot #: _____

Number of 5035 Field Kits: _____
 pH 10-12 _____ 219813A _____

Number of Lab Filtered Metals: _____
 Other: (Specify) _____

Comments

SM001
 Rev. Date 05/24/17

Technician: SHAYLAP

Date: 5/11/2018 9:45:00 AM

Reviewer: P.H

Date: 5/11/2018

FA54151: Chain of Custody

Page 2 of 2

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: FA54151**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-MB	J0991340.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54151-1, FA54151-2, FA54151-3, FA54151-4, FA54151-5, FA54151-7, FA54151-8, FA54151-9, FA54151-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

Method Blank Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-MB	J0991340.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples: Method: SW846 8260B
FA54151-1, FA54151-2, FA54151-3, FA54151-4, FA54151-5, FA54151-7, FA54151-8, FA54151-9, FA54151-10

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 83-118%
17060-07-0	1,2-Dichloroethane-D4	109% 79-125%
2037-26-5	Toluene-D8	98% 85-112%
460-00-4	4-Bromofluorobenzene	95% 83-118%

Method Blank Summary

Page 1 of 2

Job Number: FA54151**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5909-MB	J0991381.D	1	05/15/18	SP	n/a	n/a	VJ5909

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54151-2, FA54151-5, FA54151-6, FA54151-10, FA54151-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	1.3	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.59	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

Method Blank Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5909-MB	J0991381.D	1	05/15/18	SP	n/a	n/a	VJ5909

The QC reported here applies to the following samples: Method: SW846 8260B
FA54151-2, FA54151-5, FA54151-6, FA54151-10, FA54151-11

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 83-118%
17060-07-0	1,2-Dichloroethane-D4	107% 79-125%
2037-26-5	Toluene-D8	98% 85-112%
460-00-4	4-Bromofluorobenzene	98% 83-118%

6.1.2
6

Blank Spike Summary

Page 1 of 2

Job Number: FA54151**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-BS	J0991339.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54151-1, FA54151-2, FA54151-3, FA54151-4, FA54151-5, FA54151-7, FA54151-8, FA54151-9, FA54151-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	146	117	50-147
71-43-2	Benzene	25	27.2	109	81-122
75-27-4	Bromodichloromethane	25	28.6	114	79-123
75-25-2	Bromoform	25	25.4	102	66-123
78-93-3	2-Butanone (MEK)	125	137	110	56-143
75-15-0	Carbon Disulfide	25	30.5	122	66-148
56-23-5	Carbon Tetrachloride	25	29.5	118	76-136
108-90-7	Chlorobenzene	25	26.1	104	82-124
75-00-3	Chloroethane	25	25.7	103	62-144
67-66-3	Chloroform	25	25.7	103	80-124
124-48-1	Dibromochloromethane	25	26.2	105	78-122
75-34-3	1,1-Dichloroethane	25	28.4	114	81-122
107-06-2	1,2-Dichloroethane	25	25.4	102	75-125
75-35-4	1,1-Dichloroethylene	25	29.4	118	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.7	107	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.2	109	76-127
78-87-5	1,2-Dichloropropane	25	26.2	105	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.6	102	80-120
100-41-4	Ethylbenzene	25	28.3	113	81-121
591-78-6	2-Hexanone	125	131	105	61-129
74-83-9	Methyl Bromide	25	30.0	120	59-143
74-87-3	Methyl Chloride	25	31.0	124	50-159
75-09-2	Methylene Chloride	25	25.8	103	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	133	106	66-122
100-42-5	Styrene	25	27.4	110	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	72-120
127-18-4	Tetrachloroethylene	25	26.1	104	76-135
108-88-3	Toluene	25	27.9	112	80-120
71-55-6	1,1,1-Trichloroethane	25	27.6	110	75-130
79-00-5	1,1,2-Trichloroethane	25	25.5	102	76-119
79-01-6	Trichloroethylene	25	27.2	109	81-126
75-01-4	Vinyl Chloride	25	32.6	130	69-159
1330-20-7	Xylene (total)	75	85.8	114	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5907-BS	J0991339.D	1	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples: Method: SW846 8260B
FA54151-1, FA54151-2, FA54151-3, FA54151-4, FA54151-5, FA54151-7, FA54151-8, FA54151-9, FA54151-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 2

Job Number: FA54151**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5909-BS	J0991380.D	1	05/15/18	SP	n/a	n/a	VJ5909

The QC reported here applies to the following samples:**Method:** SW846 8260B

FA54151-2, FA54151-5, FA54151-6, FA54151-10, FA54151-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	121	97	50-147
71-43-2	Benzene	25	25.9	104	81-122
75-27-4	Bromodichloromethane	25	27.0	108	79-123
75-25-2	Bromoform	25	25.2	101	66-123
78-93-3	2-Butanone (MEK)	125	121	97	56-143
75-15-0	Carbon Disulfide	25	24.1	96	66-148
56-23-5	Carbon Tetrachloride	25	27.2	109	76-136
108-90-7	Chlorobenzene	25	25.6	102	82-124
75-00-3	Chloroethane	25	24.2	97	62-144
67-66-3	Chloroform	25	26.3	105	80-124
124-48-1	Dibromochloromethane	25	25.4	102	78-122
75-34-3	1,1-Dichloroethane	25	26.2	105	81-122
107-06-2	1,2-Dichloroethane	25	25.2	101	75-125
75-35-4	1,1-Dichloroethylene	25	26.9	108	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.8	103	76-127
78-87-5	1,2-Dichloropropane	25	25.6	102	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.5	110	80-120
100-41-4	Ethylbenzene	25	26.1	104	81-121
591-78-6	2-Hexanone	125	116	93	61-129
74-83-9	Methyl Bromide	25	26.2	105	59-143
74-87-3	Methyl Chloride	25	26.6	106	50-159
75-09-2	Methylene Chloride	25	24.8	99	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	119	95	66-122
100-42-5	Styrene	25	25.2	101	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.9	100	72-120
127-18-4	Tetrachloroethylene	25	26.3	105	76-135
108-88-3	Toluene	25	25.7	103	80-120
71-55-6	1,1,1-Trichloroethane	25	25.8	103	75-130
79-00-5	1,1,2-Trichloroethane	25	24.8	99	76-119
79-01-6	Trichloroethylene	25	26.4	106	81-126
75-01-4	Vinyl Chloride	25	29.4	118	69-159
1330-20-7	Xylene (total)	75	81.6	109	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5909-BS	J0991380.D	1	05/15/18	SP	n/a	n/a	VJ5909

The QC reported here applies to the following samples: Method: SW846 8260B
FA54151-2, FA54151-5, FA54151-6, FA54151-10, FA54151-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-17MS	J0991362.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17MSD	J0991363.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17	J0991348.D	5	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54151-1, FA54151-2, FA54151-3, FA54151-4, FA54151-5, FA54151-7, FA54151-8, FA54151-9, FA54151-10

CAS No.	Compound	FA54121-17 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		625	717	115	625	718	115	0	50-147/21
71-43-2	Benzene	ND		125	137	110	125	140	112	2	81-122/14
75-27-4	Bromodichloromethane	ND		125	145	116	125	142	114	2	79-123/19
75-25-2	Bromoform	ND		125	117	94	125	119	95	2	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	720	115	625	701	112	3	56-143/18
75-15-0	Carbon Disulfide	ND		125	144	115	125	151	121	5	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	146	117	125	155	124	6	76-136/23
108-90-7	Chlorobenzene	ND		125	133	106	125	134	107	1	82-124/14
75-00-3	Chloroethane	ND		125	128	102	125	123	98	4	62-144/20
67-66-3	Chloroform	1.7	J	125	130	103	125	132	104	2	80-124/15
124-48-1	Dibromochloromethane	ND		125	126	101	125	130	104	3	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	141	113	125	146	117	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	130	104	125	131	105	1	75-125/14
75-35-4	1,1-Dichloroethylene	1.9	J	125	144	114	125	151	119	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	131	105	125	136	109	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	131	105	125	139	111	6	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	134	107	125	137	110	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	123	98	125	128	102	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	121	97	125	124	99	2	80-120/22
100-41-4	Ethylbenzene	ND		125	139	111	125	144	115	4	81-121/14
591-78-6	2-Hexanone	ND		625	698	112	625	692	111	1	61-129/18
74-83-9	Methyl Bromide	ND		125	137	110	125	142	114	4	59-143/19
74-87-3	Methyl Chloride	ND		125	145	116	125	149	119	3	50-159/19
75-09-2	Methylene Chloride	ND		125	135	108	125	138	110	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	708	113	625	706	113	0	66-122/16
100-42-5	Styrene	ND		125	137	110	125	139	111	1	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	133	106	125	142	114	7	72-120/14
127-18-4	Tetrachloroethylene	92.5		125	249	125	125	254	129	2	76-135/16
108-88-3	Toluene	ND		125	137	110	125	140	112	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	138	110	125	141	113	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	127	102	125	128	102	1	76-119/14
79-01-6	Trichloroethylene	ND		125	136	109	125	140	112	3	81-126/15
75-01-4	Vinyl Chloride	ND		125	150	120	125	160	128	6	69-159/18
1330-20-7	Xylene (total)	ND		375	427	114	375	434	116	2	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54121-17MS	J0991362.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17MSD	J0991363.D	5	05/14/18	MM	n/a	n/a	VJ5907
FA54121-17	J0991348.D	5	05/14/18	MM	n/a	n/a	VJ5907

The QC reported here applies to the following samples: Method: SW846 8260B
FA54151-1, FA54151-2, FA54151-3, FA54151-4, FA54151-5, FA54151-7, FA54151-8, FA54151-9, FA54151-10

CAS No.	Surrogate Recoveries	MS	MSD	FA54121-17	Limits
1868-53-7	Dibromofluoromethane	100%	101%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	104%	108%	79-125%
2037-26-5	Toluene-D8	98%	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54058-1MS	J0991402.D	25	05/16/18	SP	n/a	n/a	VJ5909
FA54058-1MSD	J0991403.D	25	05/16/18	SP	n/a	n/a	VJ5909
FA54058-1 ^a	J0991387.D	25	05/15/18	SP	n/a	n/a	VJ5909

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54151-2, FA54151-5, FA54151-6, FA54151-10, FA54151-11

CAS No.	Compound	FA54058-1 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		3130	4130	132	3130	4090	131	1	50-147/21
71-43-2	Benzene	ND		625	751	120	625	853	136*	13	81-122/14
75-27-4	Bromodichloromethane	ND		625	748	120	625	856	137*	13	79-123/19
75-25-2	Bromoform	ND		625	596	95	625	744	119	22*	66-123/21
78-93-3	2-Butanone (MEK)	ND		3130	3970	127	3130	3970	127	0	56-143/18
75-15-0	Carbon Disulfide	ND		625	600	96	625	693	111	14	66-148/23
56-23-5	Carbon Tetrachloride	ND		625	773	124	625	880	141*	13	76-136/23
108-90-7	Chlorobenzene	ND		625	741	119	625	843	135*	13	82-124/14
75-00-3	Chloroethane	ND		625	572	92	625	533	85	7	62-144/20
67-66-3	Chloroform	24.7	JB	625	744	115	625	850	132*	13	80-124/15
124-48-1	Dibromochloromethane	ND		625	681	109	625	811	130*	17	78-122/19
75-34-3	1,1-Dichloroethane	ND		625	784	125*	625	886	142*	12	81-122/15
107-06-2	1,2-Dichloroethane	ND		625	736	118	625	841	135*	13	75-125/14
75-35-4	1,1-Dichloroethylene	ND		625	767	123	625	879	141*	14	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		625	740	118	625	852	136*	14	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		625	739	118	625	848	136*	14	76-127/17
78-87-5	1,2-Dichloropropane	ND		625	752	120	625	856	137*	13	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		625	697	112	625	822	132*	16	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		625	721	115	625	843	135*	16	80-120/22
100-41-4	Ethylbenzene	ND		625	757	121	625	863	138*	13	81-121/14
591-78-6	2-Hexanone	ND		3130	3840	123	3130	3850	123	0	61-129/18
74-83-9	Methyl Bromide	ND		625	690	110	625	678	108	2	59-143/19
74-87-3	Methyl Chloride	ND		625	757	121	625	735	118	3	50-159/19
75-09-2	Methylene Chloride	ND		625	777	124	625	883	141*	13	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		3130	3830	123*	3130	3880	124*	1	66-122/16
100-42-5	Styrene	ND		625	709	113	625	804	129*	13	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		625	752	120	625	883	141*	16*	72-120/14
127-18-4	Tetrachloroethylene	ND		625	700	112	625	785	126	11	76-135/16
108-88-3	Toluene	ND		625	735	118	625	842	135*	14	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		625	738	118	625	857	137*	15	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		625	725	116	625	846	135*	15*	76-119/14
79-01-6	Trichloroethylene	ND		625	761	122	625	866	139*	13	81-126/15
75-01-4	Vinyl Chloride	ND		625	791	127	625	787	126	1	69-159/18
1330-20-7	Xylene (total)	ND		1880	2330	124	1880	2660	142*	13	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA54058-1MS	J0991402.D	25	05/16/18	SP	n/a	n/a	VJ5909
FA54058-1MSD	J0991403.D	25	05/16/18	SP	n/a	n/a	VJ5909
FA54058-1 ^a	J0991387.D	25	05/15/18	SP	n/a	n/a	VJ5909

The QC reported here applies to the following samples:

Method: SW846 8260B

FA54151-2, FA54151-5, FA54151-6, FA54151-10, FA54151-11

CAS No.	Surrogate Recoveries	MS	MSD	FA54058-1	Limits
1868-53-7	Dibromofluoromethane	102%	101%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	102%	107%	79-125%
2037-26-5	Toluene-D8	98%	100%	100%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	101%	83-118%

(a) Confirmation run.

* = Outside of Control Limits.

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 3

Job Number: FA54151**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-MB	X060233.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples:**Method:** SW846 8270D

FA54151-11

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.59	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.63	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.84	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.74	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.56	ug/l	
	3&4-Methylphenol	ND	5.0	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.85	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.75	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.63	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.64	ug/l	
120-12-7	Anthracene	ND	5.0	0.80	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.76	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.78	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.78	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.82	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.61	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.85	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.60	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.81	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.73	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	5.0	0.76	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.54	ug/l	
218-01-9	Chrysene	ND	5.0	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.80	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.60	ug/l	

Method Blank Summary

Page 2 of 3

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-MB	X060233.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples:

Method: SW846 8270D

FA54151-11

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.64	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.0	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.81	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.71	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.55	ug/l	
86-73-7	Fluorene	ND	5.0	0.70	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.69	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.50	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.8	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.71	ug/l	
78-59-1	Isophorone	ND	5.0	0.78	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.60	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.88	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.93	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.67	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.81	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.86	ug/l	
129-00-0	Pyrene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	36% 14-67%
4165-62-2	Phenol-d5	23% 10-50%

Method Blank Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-MB	X060233.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples: Method: SW846 8270D

FA54151-11

CAS No.	Surrogate Recoveries	Limits
118-79-6	2,4,6-Tribromophenol	70% 33-118%
4165-60-0	Nitrobenzene-d5	67% 42-108%
321-60-8	2-Fluorobiphenyl	70% 40-106%
1718-51-0	Terphenyl-d14	74% 39-121%

Blank Spike Summary

Page 1 of 3

Job Number: FA54151**Account:** UTC United Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-BS	X060232.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples:**Method:** SW846 8270D

FA54151-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	23.9	24	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	34.0	68	54-103
95-57-8	2-Chlorophenol	50	35.1	70	52-98
120-83-2	2,4-Dichlorophenol	50	37.0	74	53-103
105-67-9	2,4-Dimethylphenol	50	30.9	62	43-90
51-28-5	2,4-Dinitrophenol	100	79.4	79	44-112
534-52-1	4,6-Dinitro-o-cresol	100	90.6	91	66-121
95-48-7	2-Methylphenol	50	29.4	59	43-90
	3&4-Methylphenol	100	53.9	54	36-88
88-75-5	2-Nitrophenol	50	37.2	74	53-102
100-02-7	4-Nitrophenol	100	35.4	35	18-62
87-86-5	Pentachlorophenol	100	85.7	86	61-115
108-95-2	Phenol	50	14.5	29	19-56
95-95-4	2,4,5-Trichlorophenol	50	43.3	87	62-109
88-06-2	2,4,6-Trichlorophenol	50	44.8	90	59-107
83-32-9	Acenaphthene	50	41.1	82	61-107
208-96-8	Acenaphthylene	50	43.7	87	60-104
120-12-7	Anthracene	50	40.0	80	65-108
56-55-3	Benzo(a)anthracene	50	42.5	85	66-111
50-32-8	Benzo(a)pyrene	50	43.0	86	62-107
205-99-2	Benzo(b)fluoranthene	50	45.7	91	65-114
191-24-2	Benzo(g,h,i)perylene	50	44.4	89	66-116
207-08-9	Benzo(k)fluoranthene	50	42.1	84	65-114
100-51-6	Benzyl Alcohol	50	32.1	64	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	41.8	84	65-109
85-68-7	Butyl Benzyl Phthalate	50	43.0	86	65-112
86-74-8	Carbazole	50	44.0	88	59-113
106-47-8	4-Chloroaniline	50	34.4	69	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	32.7	65	51-102
111-44-4	bis(2-Chloroethyl)ether	50	38.0	76	53-100
108-60-1	2,2'-Oxybis(1-chloropropane)	50	38.2	76	45-106
91-58-7	2-Chloronaphthalene	50	39.7	79	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	43.1	86	62-105
218-01-9	Chrysene	50	43.8	88	66-111
53-70-3	Dibenzo(a,h)anthracene	50	45.3	91	66-119
132-64-9	Dibenzofuran	50	42.4	85	61-106

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 3

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-BS	X060232.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples:

Method: SW846 8270D

FA54151-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	34.3	69	48-97
541-73-1	1,3-Dichlorobenzene	50	33.5	67	45-95
106-46-7	1,4-Dichlorobenzene	50	34.3	69	45-98
91-94-1	3,3'-Dichlorobenzidine	50	43.4	87	46-117
84-66-2	Diethyl Phthalate	50	43.4	87	64-108
131-11-3	Dimethyl Phthalate	50	42.2	84	63-106
84-74-2	Di-n-butyl Phthalate	50	43.5	87	65-107
117-84-0	Di-n-octyl Phthalate	50	45.3	91	62-118
121-14-2	2,4-Dinitrotoluene	50	43.1	86	61-110
606-20-2	2,6-Dinitrotoluene	50	41.6	83	63-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.7	89	61-117
206-44-0	Fluoranthene	50	42.5	85	63-106
86-73-7	Fluorene	50	44.0	88	62-108
118-74-1	Hexachlorobenzene	50	40.8	82	63-108
87-68-3	Hexachlorobutadiene	50	32.0	64	42-102
77-47-4	Hexachlorocyclopentadiene	50	39.3	79	39-102
67-72-1	Hexachloroethane	50	32.5	65	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	46.0	92	64-119
78-59-1	Isophorone	50	34.5	69	43-87
91-57-6	2-Methylnaphthalene	50	35.6	71	51-102
91-20-3	Naphthalene	50	33.7	67	47-100
88-74-4	2-Nitroaniline	50	44.2	88	54-128
99-09-2	3-Nitroaniline	50	41.8	84	56-106
100-01-6	4-Nitroaniline	50	42.9	86	55-120
98-95-3	Nitrobenzene	50	34.6	69	50-104
621-64-7	N-Nitrosodi-n-propylamine	50	38.8	78	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.2	82	64-108
85-01-8	Phenanthrene	50	42.9	86	66-110
129-00-0	Pyrene	50	43.0	86	64-113
120-82-1	1,2,4-Trichlorobenzene	50	32.4	65	45-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	14-67%
4165-62-2	Phenol-d5	25%	10-50%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-BS	X060232.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples: Method: SW846 8270D

FA54151-11

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	81%	33-118%
4165-60-0	Nitrobenzene-d5	68%	42-108%
321-60-8	2-Fluorobiphenyl	80%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-MS	X060241.D	1	05/18/18	MV	05/16/18	OP70077	SX2515
OP70077-MSD	X060242.D	1	05/18/18	MV	05/16/18	OP70077	SX2515
FA54151-11	X060234.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples:

Method: SW846 8270D

FA54151-11

CAS No.	Compound	FA54151-11 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND	200	55.8	28	200	63.5	32	13	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND	100	65.7	66	100	66.6	67	1	54-103/23
95-57-8	2-Chlorophenol	ND	100	55.0	55	100	59.7	60	8	52-98/25
120-83-2	2,4-Dichlorophenol	ND	100	62.2	62	100	62.6	63	1	53-103/26
105-67-9	2,4-Dimethylphenol	ND	100	54.4	54	100	55.4	55	2	43-90/27
51-28-5	2,4-Dinitrophenol	ND	200	151	76	200	150	75	1	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND	200	174	87	200	170	85	2	66-121/23
95-48-7	2-Methylphenol	ND	100	50.7	51	100	55.7	56	9	43-90/28
	3&4-Methylphenol	ND	200	98.4	49	200	108	54	9	36-88/28
88-75-5	2-Nitrophenol	ND	100	58.8	59	100	60.7	61	3	53-102/29
100-02-7	4-Nitrophenol	ND	200	86.6	43	200	95.7	48	10	18-62/33
87-86-5	Pentachlorophenol	ND	200	168	84	200	165	83	2	61-115/26
108-95-2	Phenol	ND	100	28.3	28	100	32.6	33	14	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND	100	79.8	80	100	79.0	79	1	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND	100	80.4	80	100	78.8	79	2	59-107/23
83-32-9	Acenaphthene	ND	100	74.6	75	100	73.2	73	2	61-107/22
208-96-8	Acenaphthylene	ND	100	79.6	80	100	77.6	78	3	60-104/22
120-12-7	Anthracene	ND	100	75.0	75	100	73.4	73	2	65-108/20
56-55-3	Benzo(a)anthracene	ND	100	80.1	80	100	78.5	79	2	66-111/22
50-32-8	Benzo(a)pyrene	ND	100	80.9	81	100	78.3	78	3	62-107/23
205-99-2	Benzo(b)fluoranthene	ND	100	82.6	83	100	78.7	79	5	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND	100	81.2	81	100	78.1	78	4	66-116/23
207-08-9	Benzo(k)fluoranthene	ND	100	82.4	82	100	79.8	80	3	65-114/24
100-51-6	Benzyl Alcohol	ND	100	58.2	58	100	62.1	62	6	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND	100	80.9	81	100	77.1	77	5	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND	100	81.8	82	100	79.7	80	3	65-112/24
86-74-8	Carbazole	ND	100	81.9	82	100	79.7	80	3	59-113/21
106-47-8	4-Chloroaniline	ND	100	62.3	62	100	61.5	62	1	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND	100	54.1	54	100	55.2	55	2	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND	100	57.9	58	100	62.2	62	7	53-100/27
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	100	59.7	60	100	64.5	65	8	45-106/26
91-58-7	2-Chloronaphthalene	ND	100	71.1	71	100	70.4	70	1	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	100	79.3	79	100	76.2	76	4	62-105/20
218-01-9	Chrysene	ND	100	81.7	82	100	81.0	81	1	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND	100	83.3	83	100	80.9	81	3	66-119/24
132-64-9	Dibenzofuran	ND	100	77.9	78	100	75.6	76	3	61-106/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: FA54151

Account: UTC United Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-MS	X060241.D	1	05/18/18	MV	05/16/18	OP70077	SX2515
OP70077-MSD	X060242.D	1	05/18/18	MV	05/16/18	OP70077	SX2515
FA54151-11	X060234.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples:

Method: SW846 8270D

FA54151-11

CAS No.	Compound	FA54151-11 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND	100	54.1	54	100	57.3	57	6	48-97/24
541-73-1	1,3-Dichlorobenzene	ND	100	51.8	52	100	56.1	56	8	45-95/25
106-46-7	1,4-Dichlorobenzene	ND	100	52.1	52	100	56.3	56	8	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND	100	79.3	79	100	76.2	76	4	46-117/29
84-66-2	Diethyl Phthalate	ND	100	81.1	81	100	80.1	80	1	64-108/21
131-11-3	Dimethyl Phthalate	ND	100	78.5	79	100	77.7	78	1	63-106/22
84-74-2	Di-n-butyl Phthalate	ND	100	82.0	82	100	78.9	79	4	65-107/21
117-84-0	Di-n-octyl Phthalate	ND	100	86.3	86	100	82.3	82	5	62-118/24
121-14-2	2,4-Dinitrotoluene	ND	100	78.2	78	100	78.0	78	0	61-110/21
606-20-2	2,6-Dinitrotoluene	ND	100	77.4	77	100	75.2	75	3	63-108/21
117-81-7	bis(2-Ethylhexyl)phthalate	ND	100	86.2	86	100	83.3	83	3	61-117/23
206-44-0	Fluoranthene	ND	100	79.0	79	100	77.0	77	3	63-106/21
86-73-7	Fluorene	ND	100	81.7	82	100	80.0	80	2	62-108/20
118-74-1	Hexachlorobenzene	ND	100	75.9	76	100	74.9	75	1	63-108/22
87-68-3	Hexachlorobutadiene	ND	100	52.4	52	100	55.2	55	5	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND	100	63.5	64	100	63.4	63	0	39-102/29
67-72-1	Hexachloroethane	ND	100	50.2	50	100	54.3	54	8	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	83.1	83	100	80.4	80	3	64-119/24
78-59-1	Isophorone	ND	100	60.2	60	100	60.4	60	0	43-87/25
91-57-6	2-Methylnaphthalene	ND	100	61.2	61	100	61.2	61	0	51-102/26
91-20-3	Naphthalene	ND	100	55.6	56	100	57.4	57	3	47-100/29
88-74-4	2-Nitroaniline	ND	100	81.8	82	100	79.8	80	2	54-128/24
99-09-2	3-Nitroaniline	ND	100	80.4	80	100	76.5	77	5	56-106/27
100-01-6	4-Nitroaniline	ND	100	79.2	79	100	77.7	78	2	55-120/24
98-95-3	Nitrobenzene	ND	100	55.2	55	100	56.3	56	2	50-104/28
621-64-7	N-Nitrosodi-n-propylamine	ND	100	64.4	64	100	67.4	67	5	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND	100	78.1	78	100	75.8	76	3	64-108/23
85-01-8	Phenanthrene	ND	100	80.4	80	100	78.8	79	2	66-110/21
129-00-0	Pyrene	ND	100	83.4	83	100	81.8	82	2	64-113/23
120-82-1	1,2,4-Trichlorobenzene	ND	100	52.6	53	100	54.0	54	3	45-97/28

CAS No.	Surrogate Recoveries	MS	MSD	FA54151-11	Limits
367-12-4	2-Fluorophenol	35%	40%	21%	14-67%
4165-62-2	Phenol-d5	25%	28%	12%	10-50%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA54151
Account: UTC United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70077-MS	X060241.D	1	05/18/18	MV	05/16/18	OP70077	SX2515
OP70077-MSD	X060242.D	1	05/18/18	MV	05/16/18	OP70077	SX2515
FA54151-11	X060234.D	1	05/17/18	MV	05/16/18	OP70077	SX2514

The QC reported here applies to the following samples: Method: SW846 8270D

FA54151-11

CAS No.	Surrogate Recoveries	MS	MSD	FA54151-11	Limits
118-79-6	2,4,6-Tribromophenol	76%	75%	66%	33-118%
4165-60-0	Nitrobenzene-d5	54%	55%	56%	42-108%
321-60-8	2-Fluorobiphenyl	69%	68%	56%	40-106%
1718-51-0	Terphenyl-d14	78%	77%	71%	39-121%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries



Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA54151
Account: UTC - United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33742
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/15/18

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.50	.03	.03	0.12	<0.50

Associated samples MP33742: FA54151-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33742
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 05/15/18 05/15/18

Metal	FA54150-4 Original DUP		RPD	QC Limits	FA54150-4 Original MS		Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.17	0.18	5.7	0-20	0.17	2.9	3	91.0	80-120

Associated samples MP33742: FA54151-11

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33742
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 05/15/18

Metal	FA54150-4 Original MSD	Spike lot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.17	2.9	3	91.0	0.0

Associated samples MP33742: FA54151-11

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33742
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 05/15/18

Metal	BSP Result	SpikeLot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP33742: FA54151-11

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33742
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 05/15/18

Metal	FA54150-4			QC Limits
	Original	SDL 1:5	%DIF	
Mercury	0.175	0.00	100.0(a)	0-10

Associated samples MP33742: FA54151-11

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA54151
Account: UTC - United Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33754
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/17/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1	0.60	<6.0
Arsenic	10	1.3	1.3	-2.9	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2	-0.77	<4.0
Cadmium	5.0	.2	.2	-0.81	<5.0
Calcium	1000	50	50		
Chromium	10	1	1	0.0	<10
Cobalt	50	.2	.2		
Copper	25	1	1	-0.80	<25
Iron	300	17	17		
Lead	5.0	1	1.1	0.40	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4	-0.70	<40
Potassium	10000	200	200		
Selenium	10	2.4	2.9	0.10	<10
Silver	10	.7	.7	0.30	<10
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4	0.0	<10
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4	0.40	<20

Associated samples MP33754: FA54151-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33754
 Matrix Type: AQUEOUS

Methods: SW846 6010D
 Units: ug/l

Prep Date:

05/17/18

05/17/18

Metal	FA54151-11 Original	DUP	RPD	QC Limits	FA54151-11 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	0.0	NC	0-20	0.0	492	500	98.4	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	1950	2000	97.5	80-120
Barium	anr								
Beryllium	0.0	0.0	NC	0-20	0.0	51.1	50	102.2	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	49.0	50	98.0	80-120
Calcium	anr								
Chromium	3.9	3.5	10.8	0-20	3.9	212	200	104.1	80-120
Cobalt	anr								
Copper	0.0	0.0	NC	0-20	0.0	249	250	99.6	80-120
Iron	anr								
Lead	0.0	1.5	200.0(a)	0-20	0.0	479	500	95.8	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	0.0	0.0	NC	0-20	0.0	518	500	103.6	80-120
Potassium	anr								
Selenium	0.0	0.0	NC	0-20	0.0	1880	2000	94.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	48.1	50	96.2	80-120
Sodium	anr								
Strontium	anr								
Thallium	0.0	0.0	NC	0-20	0.0	1860	2000	93.0	80-120
Tin									
Titanium									
Vanadium	anr								
Zinc	7.7	8.2	6.3	0-20	7.7	513	500	101.1	80-120

Associated samples MP33754: FA54151-11

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33754
 Matrix Type: AQUEOUS

Methods: SW846 6010D
 Units: ug/l

Prep Date: 05/17/18

Metal	FA54151-11 Original MSD		Spikelet MPFLICP2 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony	0.0	494	500	98.8	0.4	20
Arsenic	0.0	1960	2000	98.0	0.5	20
Barium	anr					
Beryllium	0.0	51.2	50	102.4	0.2	20
Cadmium	0.0	49.0	50	98.0	0.0	20
Calcium	anr					
Chromium	3.9	210	200	103.1	0.9	20
Cobalt	anr					
Copper	0.0	250	250	100.0	0.4	20
Iron	anr					
Lead	0.0	479	500	95.8	0.0	20
Magnesium	anr					
Manganese	anr					
Molybdenum	anr					
Nickel	0.0	518	500	103.6	0.0	20
Potassium	anr					
Selenium	0.0	1880	2000	94.0	0.0	20
Silver	0.0	48.5	50	97.0	0.8	20
Sodium	anr					
Strontium	anr					
Thallium	0.0	1870	2000	93.5	0.5	20
Tin						
Titanium						
Vanadium	anr					
Zinc	7.7	514	500	101.3	0.2	20

Associated samples MP33754: FA54151-11

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33754
 Matrix Type: AQUEOUS

Methods: SW846 6010D
 Units: ug/l

Prep Date: 05/17/18

Metal	BSP Result	SpikeLot MPFLICP2 % Rec	QC Limits
Aluminum			
Antimony	491	500	98.2 80-120
Arsenic	1950	2000	97.5 80-120
Barium	anr		
Beryllium	51.0	50	102.0 80-120
Cadmium	48.9	50	97.8 80-120
Calcium	anr		
Chromium	207	200	103.5 80-120
Cobalt	anr		
Copper	245	250	98.0 80-120
Iron	anr		
Lead	482	500	96.4 80-120
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	517	500	103.4 80-120
Potassium	anr		
Selenium	1870	2000	93.5 80-120
Silver	47.9	50	95.8 80-120
Sodium	anr		
Strontium	anr		
Thallium	1870	2000	93.5 80-120
Tin			
Titanium			
Vanadium	anr		
Zinc	507	500	101.4 80-120

Associated samples MP33754: FA54151-11

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33754
 Matrix Type: AQUEOUS

Methods: SW846 6010D
 Units: ug/l

Prep Date: 05/17/18

Metal	FA54151-11 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	3.90	0.00	100.0(a)	0-10
Cobalt	anr			
Copper	0.00	0.00	NC	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum	anr			
Nickel	0.00	0.00	NC	0-10
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium	anr			
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	anr			
Zinc	7.70	0.00	100.0(a)	0-10

Associated samples MP33754: FA54151-11

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA54151
 Account: UTC - United Technologies Corporation
 Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP33754
 Matrix Type: AQUEOUS

Methods: SW846 6010D
 Units: ug/l

Prep Date:

05/17/18

Metal	Sample ml	Final ml	FA54151-11 Raw	FA54151-11 Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			90.8	0.2	5	100	90.8	80-120
Arsenic	9.8	10			95.3	0.2	5	100	95.3	80-120
Barium										
Beryllium	9.8	10			48.21	0.2	2.5	50	96.4	80-120
Cadmium	9.8	10			46.25	0.2	2.5	50	92.5	80-120
Calcium										
Chromium	9.8	10	3.9	3.822	52.1	0.2	2.5	50	96.6	80-120
Cobalt										
Copper	9.8	10			94	0.2	5	100	94.0	80-120
Iron										
Lead	9.8	10			44.6	0.2	2.5	50	89.2	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10			97	0.2	5	100	97.0	80-120
Potassium										
Selenium	9.8	10			85.2	0.2	5	100	85.2	80-120
Silver	9.8	10			45.1	0.2	2.5	50	90.2	80-120
Sodium										
Strontium										
Thallium	9.8	10			83.8	0.2	5	100	83.8	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	7.7	7.546	246.1	0.2	12.5	250	95.4	80-120

Associated samples MP33754: FA54151-11

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (**) Corr. sample result = Raw * (sample volume / final volume)
 (anr) Analyte not requested

DATA ASSESSMENT REPORT

Data assessment is a systematic process for reviewing a body of data against a predefined set of criteria to provide assurance that the data meet project Data Quality Objective (DQO) requirements. The purpose of the data assessment process is to determine if and how the usability of the analytical data is affected by the overall analytical processes and sample collection and handling procedures. If specific DQOs are not met, the data are qualified (i.e., data flags are assigned to sample results) in accordance with guidelines established by the United States Environmental Protection Agency (USEPA). Data assessment allows the data user to adequately determine if the data can be used for its intended purpose. The data acceptance criteria are established according to Standard Operating Procedures (SOPs) and Statements of Work (SOWs) provided to the contracted analytical laboratory. The assessment of data quality and usability involves five components, as described below.

- 1) **Field Sampling Check** is a process to ensure that all samples were collected and the laboratory analyses were performed as stipulated in the applicable site-specific Work Plan or Field Sampling Plan (FSP). Inspection of sample preservation procedures, sample handling, analysis requested, sample description and identification (ID), cooler receipt forms, holding time evaluation, and Chain of Custody procedures are all evaluated to ensure that the evidentiary nature of the samples and the resulting analytical data have not been compromised.
- 2) **Data Verification** is a process for determining the completeness, correctness, consistency, and compliance of a data package in accordance with requirements contained in the applicable SOW and/or contract-specific requirements. This is a review of the data package, electronic data deliverable (EDD), and invoice received from the contract laboratory to ensure that the contract required information is present and complete prior to data validation.
- 3) **Data Review** is a process of reviewing the primary quality control (QC) data provided by the laboratory and the results of any internal quality assurance (QA)/QC samples, such as field blanks, trip blanks, equipment blanks or ambient blanks, field split samples, and duplicate samples, to ascertain any effect the laboratory's procedures or the sample collection process has on the data.
- 4) **Data Evaluation** is a process to determine if the data meet project-specific DQOs and contract requirements. This evaluation may involve a review of field sampling and sample management procedures, laboratory audits, Performance Evaluation (PE) sample results, and any other data quality indicators that are available.
- 5) **Data Validation** is a process to determine the accuracy and precision of analytical data generated and to identify any anomalies encountered. The validation process is performed in accordance with USEPA regional or national functional guidelines, project-specific guidelines, and

compliance with the requirements of each analytical method. Two major components of data validation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance for each analytical method to determine if the samples were analyzed within the prescribed acceptance criteria of the method. Evaluation of matrix interferences involves the analysis of surrogate spike recoveries, matrix spike recoveries, and duplicate sample results. Data not meeting project-specific DQOs or the requirements of the analytical method are qualified with data flags according to referenced guidelines.

Data Assessment Procedures

AECOM performed independent QC checks of field and laboratory procedures that were used in collecting and analyzing the data. The QC checks verify that the data collected are of appropriate quality for the intended data use and that the DQOs were met. The steps and guidelines followed during the data validation process were modeled on the *USEPA National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, August 2014) and *USEPA National Functional Guidelines for Superfund Organic Data Review* (USEPA, August 2014). In addition, method-specific criteria set forth in the compendium of analytical methods found in the *Test Methods for Evaluation Solid Waste (SW-846), Update IV* (USEPA, February 2007) are also evaluated during the validation process. This validation process has been adapted to meet the DQO requirements for generation of definitive critical data.

Data Validation Results

The analytical data associated with analytical data package FA54121 were collected on May 7-9, 2018 for Delavan Spray Technologies located in Bamberg, South Carolina. The analytical data were validated according to the procedures outlined above. Where data flags have been applied to this data set, they are separated by a slash “/” and presented in the following format:

Laboratory Flag / Result Flags / Analysis Flags

- **Laboratory Flag:** This flag precedes the first slash and is added by the laboratory as a result of QC excursions from the analytical method. These flags are laboratory-specific and are described in the associated laboratory report.
- **Result Flags:** These are presented after the first slash and are added by AECOM based on data validation procedures and guidelines. They tell how and if the data should be used.
- **Analysis Flags:** These flags are presented after the second slash and are added by AECOM to inform the data user of any specific QA/QC problems that were encountered.

Any data requiring qualification as a result of the validation process were assigned data flags, as discussed below. The validation flags indicate how any QC excursions may have impacted the usability of the data.

Volatile Organic Compounds by Method 8260B

Results of the validation process indicate that the data analyzed for this method are acceptable for their intended use and no data flags are required.

Data Summary and Usability

No QC excursions were encountered during the validation of this data set. Therefore, the data associated with this laboratory batch should be considered compliant and adequate for its intended use.

References

United States Environmental Protection Agency (USEPA), February 2007. *Test Methods for Evaluating Solid Waste (SW-846), Update IV.*

United States Environmental Protection Agency (USEPA), August 2014. *USEPA National Functional Guidelines for Superfund Organic Data Review.* Publication #EPA540-R-014-002.

United States Environmental Protection Agency (USEPA), August 2014. *USEPA National Functional Guidelines for Inorganic Superfund Data Review.* Publication #USEPA540/R-013-001.

DATA ASSESSMENT REPORT

Data assessment is a systematic process for reviewing a body of data against a predefined set of criteria to provide assurance that the data meet project Data Quality Objective (DQO) requirements. The purpose of the data assessment process is to determine if and how the usability of the analytical data is affected by the overall analytical processes and sample collection and handling procedures. If specific DQOs are not met, the data are qualified (i.e., data flags are assigned to sample results) in accordance with guidelines established by the United States Environmental Protection Agency (USEPA). Data assessment allows the data user to adequately determine if the data can be used for its intended purpose. The data acceptance criteria are established according to Standard Operating Procedures (SOPs) and Statements of Work (SOWs) provided to the contracted analytical laboratory. The assessment of data quality and usability involves five components, as described below.

- 1) **Field Sampling Check** is a process to ensure that all samples were collected and the laboratory analyses were performed as stipulated in the applicable site-specific Work Plan or Field Sampling Plan (FSP). Inspection of sample preservation procedures, sample handling, analysis requested, sample description and identification (ID), cooler receipt forms, holding time evaluation, and Chain of Custody procedures are all evaluated to ensure that the evidentiary nature of the samples and the resulting analytical data have not been compromised.
- 2) **Data Verification** is a process for determining the completeness, correctness, consistency, and compliance of a data package in accordance with requirements contained in the applicable SOW and/or contract-specific requirements. This is a review of the data package, electronic data deliverable (EDD), and invoice received from the contract laboratory to ensure that the contract required information is present and complete prior to data validation.
- 3) **Data Review** is a process of reviewing the primary quality control (QC) data provided by the laboratory and the results of any internal quality assurance (QA)/QC samples, such as field blanks, trip blanks, equipment blanks or ambient blanks, field split samples, and duplicate samples, to ascertain any effect the laboratory's procedures or the sample collection process has on the data.
- 4) **Data Evaluation** is a process to determine if the data meet project-specific DQOs and contract requirements. This evaluation may involve a review of field sampling and sample management procedures, laboratory audits, Performance Evaluation (PE) sample results, and any other data quality indicators that are available.
- 5) **Data Validation** is a process to determine the accuracy and precision of analytical data generated and to identify any anomalies encountered. The validation process is performed in accordance with USEPA regional or national functional guidelines, project-specific guidelines, and

compliance with the requirements of each analytical method. Two major components of data validation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance for each analytical method to determine if the samples were analyzed within the prescribed acceptance criteria of the method. Evaluation of matrix interferences involves the analysis of surrogate spike recoveries, matrix spike recoveries, and duplicate sample results. Data not meeting project-specific DQOs or the requirements of the analytical method are qualified with data flags according to referenced guidelines.

Data Assessment Procedures

AECOM performed independent QC checks of field and laboratory procedures that were used in collecting and analyzing the data. The QC checks verify that the data collected are of appropriate quality for the intended data use and that the DQOs were met. The steps and guidelines followed during the data validation process were modeled on the *USEPA National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, August 2014) and *USEPA National Functional Guidelines for Superfund Organic Data Review* (USEPA, August 2014). In addition, method-specific criteria set forth in the compendium of analytical methods found in the *Test Methods for Evaluation Solid Waste (SW-846), Update IV* (USEPA, February 2007) are also evaluated during the validation process. This validation process has been adapted to meet the DQO requirements for generation of definitive critical data.

Data Validation Results

The analytical data associated with analytical data package FA54151 were collected on May 9-10, 2018 for Delavan Spray Technologies located in Bamberg, South Carolina. The analytical data were validated according to the procedures outlined above. Where data flags have been applied to this data set, they are separated by a slash “/” and presented in the following format:

Laboratory Flag / Result Flags / Analysis Flags

- **Laboratory Flag:** This flag precedes the first slash and is added by the laboratory as a result of QC excursions from the analytical method. These flags are laboratory-specific and are described in the associated laboratory report.
- **Result Flags:** These are presented after the first slash and are added by AECOM based on data validation procedures and guidelines. They tell how and if the data should be used.
- **Analysis Flags:** These flags are presented after the second slash and are added by AECOM to inform the data user of any specific QA/QC problems that were encountered.

Any data requiring qualification as a result of the validation process were assigned data flags, as discussed below. The validation flags indicate how any QC excursions may have impacted the usability of the data.

Volatile Organic Compounds by Method 8260B

Detections of chloroform associated with preparatory batch VJ5909 and $< 6.5 \mu\text{g/L}$ were qualified “/B/K” due to the presence of the analyte in the associated method blank sample.

Semivolatile Organic Compounds by Method 8270D

Non-detected results of benzoic acid associated with preparatory batch SX2514 were qualified “/R/c” due to low recovery in the associated laboratory control sample ($24\% < 25\text{-}150\%$). These qualifiers indicate the non-detections of these compounds are biased low and should be rejected.

PP Metals by Methods 6010C/7470B

Results of the validation process indicate that the data analyzed for this method are acceptable for their intended use and no data flags are required.

Data Summary and Usability

With the exception of non-detected results of benzoic acid associated with preparatory batch SX2514, the QC excursions encountered during the validation of this data set did not result in the rejection of any data. Therefore, the remaining data associated with this laboratory batch should be considered compliant and adequate for its intended use.

References

United States Environmental Protection Agency (USEPA), February 2007. *Test Methods for Evaluating Solid Waste (SW-846), Update IV*.

United States Environmental Protection Agency (USEPA), August 2014. *USEPA National Functional Guidelines for Superfund Organic Data Review*. Publication #EPA540-R-014-002.

United States Environmental Protection Agency (USEPA), August 2014. *USEPA National Functional Guidelines for Inorganic Superfund Data Review*. Publication #USEPA540/R-013-001.

**APPENDIX C
HISTORIC VOC DATA**

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MCL		ug/L	200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-1	6/4/2003	ug/L	<50	<50	<50	NA	NA	NA	NA	<50	NA	140	15000	<250	<50	<50	<50	<150
MW-1	12/30/2003	ug/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	11000	<800	<800	<800	<800	<800
MW-1	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	10.1	NA	<1.00	5470	NA	<1.00	34.8	<1.00	NA
MW-1	6/1/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	10.1	NA	<1.00	5750	NA	<1.00	41.3	<1.00	NA
MW-1	9/20/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	9.6	NA	<1.00	3150	NA	<1.00	38.4	<1.00	NA
MW-1	12/12/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	11.4	NA	<1.00	4750	NA	<1.00	35.6	<1.00	NA
MW-1	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	11.9	NA	<1.00	6580	NA	<1.00	48.1	<1.00	NA
MW-1	6/26/2006	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	13	NA	<1.0	4100	NA	<1.0	32	<1.0	NA
MW-1	10/21/2006	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	17.9	NA	<1.0	9550	NA	<1.0	65.8	<1.0	NA
MW-1	1/12/2007	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	23.1	NA	<1.00	6790	NA	<1.00	85.6	<1.00	NA
MW-1	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	102	NA	<1.00	5390	NA	<1.00	83.7	<1.00	NA
MW-1	11/5/2009	ug/L	<1.00	<1.00	1.74	NA	NA	NA	NA	382	NA	<1.00	7680	NA	<1.00	108	<1.00	NA
MW-1	4/30/2010	ug/L	<5.00	<5.00	<5.00	NA	NA	NA	NA	184	NA	<5.00	5940	NA	<5.00	79.6	<5.00	NA
MW-1	10/25/2010	ug/L	<50.0	<50.0	<50.0	NA	NA	NA	NA	648	NA	<50.0	5690	NA	<50.0	99.5	<50.0	NA
MW-1	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	210	NA	<1.0	3000	<1.0	<1.0	28	<2.0	<10
MW-1	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	265	NA	<1.00	2320	NA	<1.00	35	<1.00	NA
MW-1	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	298	NA	<1.00	3120	NA	<1.00	41.4	<1.00	NA
MW-1	2/26/2014	ug/L	<6.7	<5.1	<5.1	<4.8	<5.2	<4	<6.2	110 J/A	<7.2	69.3 J	1280 J/A	<4	<6.9	11.5 J	<6.5	<13
MW-1	10/27/2014	ug/L	<6.7	<5.1	<5.1	<4.8	<5.2	<4	<6.2	131	<7.2	<40	785	<4	<6.9	18.6 J	10.9 J	<13
MW-1	4/20/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	6.1	<1	<10	447	<2	<1	2.6 J	<1.3	<2.6
MW-1	10/28/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	7.1	<1	<10	383	<2	<1	2.8 J	<1.3	<2.6
MW-1	4/13/2016	ug/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	19.4	<1.3	<10	468	<1	<1.7	6.2	<1.6	<2.8
MW-1	10/25/2016	ug/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	7	<1.3	<10	410	<1	<1.7	3.5 J	<1.6	<2.8
MW-1	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	13.9	<0.28	<2	607	<0.3	<0.22	8.4	<0.41	<0.72
MW-1	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	124	<0.28	<2	835	<0.3	<0.22	23.2	<0.41	<0.72
MW-1	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	12.1	<0.28	<2	298	<0.3	<0.22	8.1	<0.41	<0.72
MW-2	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-2	12/30/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	4.5	<2	<2	<2	<2	<4
MW-2	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	4.3	NA	<1.00	<1.00	<1.00	NA
MW-2	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.21	NA	<1.00	<1.00	<1.00	NA
MW-2	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.5	NA	<1.00	<1.00	<1.00	NA
MW-2	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.17	NA	<1.00	<1.00	<1.00	NA
MW-2	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.27	NA	<1.00	<1.00	<1.00	NA
MW-2	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1	NA	<1.00	<1.00	<1.00	NA
MW-2	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-2	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.86	NA	<1.00	<1.00	<1.00	NA
MW-2	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	6.55	NA	<1.00	<1.00	<1.00	NA
MW-2	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.6	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	10/27/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.53 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.85 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.57	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.83 J	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.92 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	3.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	5/10/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.3	<0.3	<0.22	<0.35	<0.41	<0.72
MW-3	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	74	<5.0	<1.0	<1.0	<1.0	<3.0
MW-3	12/30/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	220	<2	<2	<2	<2	<4
MW-3	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	113	NA	<1.00	<1.00	<1.00	NA
MW-3	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	305	NA	<1.00	<1.00	<1.00	NA
MW-3	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	59.8	NA	<1.00	<1.00	<1.00	NA
MW-3	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	82.1	NA	<1.00	<1.00	<1.00	NA
MW-3	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	238	NA	<1.00	1.03	<1.00	NA
MW-3	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	391	NA	<1.00	2.79	<1.00	NA
MW-3	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	47	<1.0	<1.0	<1.0	<2.0	<10
MW-3	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	140	NA	<1.00	3.23	<1.00	NA
MW-3	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	64.5	NA	<1.00	<1.00	<1.00	NA
MW-3	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	45.1	<0.2	<0.34	1.1	<0.33	<0.66
MW-3	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	49.9	<0.2	<0.34	1.4	<0.33	<0.66
MW-3	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.92 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	0.24 J	<0.2	<2	57.4	<0.4	<0.21	0.79 J	<0.25	<0.51
MW-3	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.68	<0.26	<2	98	<0.2	<0.33	1.2	<0.31	<0.56
MW-3	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.58 J	<0.26	<2	91.6	<0.2	<0.33	1.1	<0.31	<0.56
MW-3	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.6	<0.28	<2	199	<0.3	<0.22	3.6	<0.41	<0.72
MW-3	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.33 J	<0.28	<2	77.3	<0.3	<0.22	1.6	<0.41	<0.72
MW-3	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	95.2	<0.3	<0.22	1.2	<0.41	<0.72

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-3D	1/9/2008	ug/L	<1.00	<1.00	9.68	NA	NA	NA	NA	5.52	NA	<1.00	432	NA	<1.00	3.33	<1.00	NA
MW-3D	11/5/2009	ug/L	<1.00	<1.00	11.8	NA	NA	NA	NA	8.92	NA	<1.00	612	NA	<1.00	4.11	<1.00	NA
MW-3D	4/30/2010	ug/L	<1.00	<1.00	9.92	NA	NA	NA	NA	9.33	NA	<1.00	764	NA	<1.00	6.1	<1.00	NA
MW-3D	10/26/2010	ug/L	<1.00	<1.00	11.7	NA	NA	NA	NA	9.98	NA	<1.00	544	NA	<1.00	4.51	<1.00	NA
MW-3D	5/24/2011	ug/L	<1.0	<1.0	11	NA	NA	NA	NA	9.4	NA	<1.0	600	<1.0	<1.0	4.7	<2.0	<10
MW-3D	11/9/2011	ug/L	<1.00	<1.00	10.8	NA	NA	NA	NA	9.93	NA	<1.00	526	NA	<1.00	4.01	<1.00	NA
MW-3D	5/9/2012	ug/L	<1.00	<1.00	10.3	NA	NA	NA	NA	8.58	NA	<1.00	520	NA	<1.00	4.48	<1.00	NA
MW-3D	3/5/2014	ug/L	<0.34	<0.26	10.4	<0.24	<0.26	<0.2	<0.31	7	<0.36	<2	204	<0.2	<0.34	6	<0.33	<0.66
MW-3D	10/28/2014	ug/L	0.58 J	<0.26	16.2	<0.24	<0.26	<0.2	<0.31	5.9	<0.36	<2	384	<0.2	<0.34	4.2	<0.33	<0.66
MW-3D	4/21/2015	ug/L	<0.26	<0.2	12.4	<0.2	<0.22	<0.29	<0.3	8.4	<0.2	<2	316 /M/M	<0.4	<0.21	8.1	<0.25	<0.51
MW-3D	10/27/2015	ug/L	<1.3	<1	9.7	<1	<1.1	<1.5	<1.5	5.6	<1	<10	353	<2	<1	6.7	<1.3	<2.6
MW-3D	4/13/2016	ug/L	<1	<1.3	5.7	<1.4	<1.2	<1.2	<1.5	7.8	<1.3	<10	285	<1	<1.7	8.3	<1.6	<2.8
MW-3D	10/26/2016	ug/L	0.25 J	<0.26	8.8	<0.28	<0.24	<0.23	<0.3	8.3	<0.26	<2	331	<0.2	<0.33	7.6	<0.31	<0.56
MW-3D	4/11/2017	ug/L	0.27 J	<0.34	8	<0.31	<0.24	<0.53	<0.3	8	<0.28	<2	223	<0.3	<0.22	8.1	<0.41	<0.72
MW-3D	10/17/2017	ug/L	<0.62	<0.85	8.8	<0.78	<0.61	<1.3	<0.75	6.4	<0.69	<5	290	<0.75	<0.55	4.4	<1	<1.8
MW-3D	5/9/2018	ug/l	<1.2	<1.7	6.7	<1.6	<1.2	<2.7	<1.5	7	<1.4	<10	299	<1.5	<1.1	7.4	<2	<3.6
MW-3D1	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-3D1	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-3D1	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-3D1	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3D1	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3D1	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-3D1	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-4	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-4	12/30/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-4	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	11/5/2009	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	10/25/2010	ug/L	<10.0	<10.0	<10.0	NA	NA	NA	NA	<10.0	NA	<10.0	<10.0	NA	<10.0	<10.0	<10.0	NA
MW-4	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-4	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	3/12/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-4	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	0.54 J	<0.21	<0.22	<0.25	<0.51
MW-4	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-4	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	0.42 J	<0.33	<0.27	<0.31	<0.56
MW-4	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	160	<5.0	<1.0	<1.0	<1.0	<3.0
MW-5	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	230	<2	<2	<2	<2	<4
MW-5	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	345	NA	<1.00	<1.00	<1.00	NA
MW-5	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	3.79	NA	<1.00	<1.00	<1.00	NA
MW-5	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	97.6	NA	<1.00	<1.00	<1.00	NA
MW-5	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.42	NA	<1.00	<1.00	<1.00	NA
MW-5	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.46	NA	<1.00	<1.00	<1.00	NA
MW-5	10/26/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-5	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-5	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.55	NA	<1.00	<1.00	<1.00	NA
MW-5	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.57	NA	<1.00	<1.00	<1.00	NA
MW-5	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	11.7	<0.2	<0.34	<0.3	<0.33	<0.66
MW-5	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.1	<0.2	<0.34	<0.3	<0.33	<0.66
MW-5	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	1	<0.2	<2	74.3	<0.4	<0.21	1.3	<0.25	<0.51
MW-5	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	16.2	<0.4	<0.21	<0.22	<0.25	<0.51
MW-5	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.53	<0.2	<0.33	<0.27	<0.31	<0.56
MW-5	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	2.5	<0.2	<0.33	<0.27	<0.31	<0.56
MW-5	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.7	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.87 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	27.7	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-6	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-6	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-6	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-6	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	0.59 J	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-6	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-6	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-6	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-6	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	5.3
MW-7	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-7	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-7	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-7	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	1.4	<0.4	<0.21	<0.22	<0.25	<0.51
MW-7	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-7	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-7	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.49 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-8	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	30	1.9J	<2	<2	<2	4.7
MW-8	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	135	NA	<1.00	1.1	<1.00	NA
MW-8	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	102	NA	<1.00	1.1	<1.00	NA
MW-8	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	159	NA	<1.00	1.66	<1.00	NA
MW-8	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	94.1	NA	<1.00	1.38	<1.00	NA
MW-8	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	28.3	NA	<1.00	<1.00	<1.00	NA
MW-8	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	76.4	NA	<1.00	1.22	<1.00	NA
MW-8	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	100	<1.0	<1.0	2.3	<2.0	<10
MW-8	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	276	NA	<1.00	5.31	<1.00	NA
MW-8	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	1.11	NA	<1.00	491	NA	<1.00	8.42	<1.00	NA
MW-8	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	114	<0.2	<0.34	6.8	<0.33	<0.66
MW-8	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	71.4	<0.2	<0.34	3.2	<0.33	<0.66
MW-8	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	28.5	<0.4	<0.21	0.97 J	<0.25	<0.51
MW-8	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	26	<0.4	<0.21	2.2	<0.25	<0.51
MW-8	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	7.8	<0.2	<0.33	<0.27	<0.31	<0.56
MW-8	10/24/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	35.8	<0.2	<0.33	4.9	<0.31	<0.56
MW-8	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	18.8	<0.3	<0.22	1.8	<0.41	<0.72
MW-8	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.31 J	<0.28	<2	47.9	<0.3	<0.22	4.7	<0.41	<0.72
MW-8	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.9 J	<0.28	<2	81.6	<0.3	<0.22	10.4	<0.41	<0.72

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MWT-1/MW-9	12/31/2003	ug/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	7500	<800	<800	<800	<800	<2,000
MWT-1/MW-9	3/14/2005	ug/L	<1.00	<1.00	7.3	NA	NA	NA	NA	19.1	NA	<1.00	3520	NA	<1.00	76	<1.00	NA
MWT-1/MW-9	6/1/2005	ug/L	<1.00	<1.00	6.7	NA	NA	NA	NA	226	NA	<1.00	4670	NA	1.4	280	<1.00	NA
MWT-1/MW-9	9/20/2005	ug/L	1.28	<1.00	13.6	NA	NA	NA	NA	158	NA	<1.00	5000	NA	1.9	295	<1.00	NA
MWT-1/MW-9	12/12/2005	ug/L	2.05	<1.00	8.94	NA	NA	NA	NA	182	NA	<1.00	3920	NA	1.37	286	<1.00	NA
MWT-1/MW-9	3/28/2006	ug/L	<1.00	<1.00	8.51	NA	NA	NA	NA	362	NA	<1.00	4560	NA	1.57	372	<1.00	NA
MWT-1/MW-9	6/26/2006	ug/L	<1.0	<1.0	12	NA	NA	NA	NA	520	NA	<1.0	1500	NA	1.7	330	<1.0	NA
MWT-1/MW-9	10/21/2006	ug/L	<1.0	<1.0	23.5	NA	NA	NA	NA	540	NA	<1.0	7490	NA	<1.0	504	<1.0	NA
MWT-1/MW-9	1/12/2007	ug/L	<1.00	<1.00	25.3	NA	NA	NA	NA	442	NA	<1.00	5630	NA	1.97	626	<1.00	NA
MWT-1/MW-9	1/9/2008	ug/L	1.08	<1.00	5.01	NA	NA	NA	NA	271	NA	<1.00	2410	NA	1.39	297	8.73	NA
MWT-1/MW-9	11/4/2009	ug/L	<1.00	<1.00	11.6	NA	NA	NA	NA	379	NA	<1.00	2950	NA	2.21	559	<1.00	NA
MWT-1/MW-9	4/29/2010	ug/L	<1.00	<1.00	11.1	NA	NA	NA	NA	236	NA	<1.00	4170	NA	3.41	320	4.79	NA
MWT-1/MW-9	10/25/2010	ug/L	<20.0	<20.0	<20.0	NA	NA	NA	NA	326	NA	<20.0	3660	NA	<20.0	579	<20.0	NA
MWT-1/MW-9	5/24/2011	ug/L	<10	<10	<10	NA	NA	NA	NA	160	NA	<10	1200	<10	<10	380	<20	<100
MWT-1/MW-9	11/9/2011	ug/L	1.2	<1.00	19.7	NA	NA	NA	NA	200	NA	<1.00	4000	NA	1.47	450	<1.00	NA
MWT-1/MW-9	5/8/2012	ug/L	<1.00	<1.00	2.92	NA	NA	NA	NA	127	NA	<1.00	755	NA	1.09	258	<1.00	NA
MW-9	3/6/2014	ug/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	31.5	<1.8	<10	498	<1	<1.7	55.3	<1.6	<3.3
MW-9	10/29/2014	ug/L	<0.34	<0.26	2.2	<0.24	<0.26	<0.2	<0.31	92.2	<0.36	<2	727 /M/m	<0.2	0.59 J	159	<0.33	<0.66
MW-9	4/22/2015	ug/L	<2.6	<2	<2.7	<2	<2.2	<2.9	<3	33.1	<2	<20	1760	<4	<2.1	133	<2.5	<5.1
MW-9	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	116	<0.2	<2	1070	<0.4	1.1	172 /M/M	<0.25	<0.51
MW-9	4/12/2016	ug/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	49.2	<2.6	<20	771	<2	<3.3	115	<3.1	<5.6
MW-9	10/26/2016	ug/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	19.2	<2.6	<20	685	<2	<3.3	106	<3.1	<5.6
MW-9	4/10/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	7.8	<1.4	<10	326	<1.5	<1.1	43.8	<2	<3.6
MW-9	10/17/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	109	<1.4	<10	646	<1.5	<1.1	157	<2	<3.6
MW-9	5/9/2018	ug/l	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	5.9	<1.4	<10	466	<1.5	<1.1	46.5	<2	<3.6
MW-9D	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-9D	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	3/6/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-9D	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-9D	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-9D	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-9D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MWT-2/MW-10	12/31/2003	ug/L	<200	<200	520	NA	NA	NA	NA	<200	NA	<200	5800	<200	<200	<200	<200	<400
MWT-2/MW-10	3/14/2005	ug/L	26.4	<1.00	18.6	NA	NA	NA	NA	40.1	NA	<1.00	4360	NA	1	62.3	<1.00	NA
MWT-2/MW-10	6/1/2005	ug/L	12.7	1.7	17.5	NA	NA	NA	NA	40.8	NA	<1.00	5680	NA	<1.00	52	<1.00	NA
MWT-2/MW-10	9/20/2005	ug/L	9.03	<1.00	40	NA	NA	NA	NA	27.8	NA	<1.00	4360	NA	<1.00	46.2	<1.00	NA
MWT-2/MW-10	12/12/2005	ug/L	11.7	<1.00	14.4	NA	NA	NA	NA	23.2	NA	<1.00	3050	NA	<1.00	45.2	<1.00	NA
MWT-2/MW-10	3/28/2006	ug/L	6.1	<1.00	13.4	NA	NA	NA	NA	16.8	NA	<1.00	3090	NA	<1.00	27.4	<1.00	NA
MWT-2/MW-10	6/26/2006	ug/L	<20	<20	<20	NA	NA	NA	NA	21	NA	<20	1800	NA	<20	31	<20	NA
MWT-2/MW-10	10/21/2006	ug/L	<100	<100	<100	NA	NA	NA	NA	121	NA	<100	3380	NA	<100	<100	114	NA
MWT-2/MW-10	1/12/2007	ug/L	1.22	<1.00	2.08	NA	NA	NA	NA	12.4	NA	<1.00	2980	NA	<1.00	32.7	<1.00	NA
MWT-2/MW-10	1/9/2008	ug/L	10.9	<1.00	24.1	NA	NA	NA	NA	89.1	NA	<1.00	3250	NA	<1.00	71.9	<1.00	NA
MWT-2/MW-10	11/4/2009	ug/L	1.49	1.56	82.2	NA	NA	NA	NA	1120	NA	<1.00	1600	NA	1.22	33.9	<1.00	NA
MWT-2/MW-10	4/29/2010	ug/L	<1.00	<1.00	2.85	NA	NA	NA	NA	104	NA	<1.00	53.8	NA	<1.00	3.22	<1.00	NA
MWT-2/MW-10	10/25/2010	ug/L	<10.0	<10.0	108	NA	NA	NA	NA	1270	NA	<10.0	1150	NA	<10.0	129	<10.0	NA
MWT-2/MW-10	5/24/2011	ug/L	<20	<20	<20	NA	NA	NA	NA	390	NA	<20	2000	<20	<20	88	<40.0	<200
MWT-2/MW-10	11/9/2011	ug/L	<5.00	8.8	285	NA	NA	NA	NA	4250	NA	<5.00	4670	NA	<5.00	154	<5.00	NA
MWT-2/MW-10	5/8/2012	ug/L	3.7	<1.00	7.83	NA	NA	NA	NA	885	NA	<1.00	1810	NA	17.1	386	<1.00	NA
MW-10	3/5/2014	ug/L	<0.34	<0.26	0.36 J	<0.24	<0.26	<0.2	<0.31	13.9	<0.36	<2	93.2	<0.2	<0.34	15.1	<0.33	<0.66
MW-10	10/29/2014	ug/L	<0.34	0.37 J	32.7	<0.24	<0.26	<0.2	<0.31	664	<0.36	<2	136	2.6	0.51 J	36.9	<0.33	<0.66
MW-10	4/22/2015	ug/L	<0.26	<0.2	5.2	<0.2	<0.22	<0.29	<0.3	98.8	<0.2	<2	54.1	<0.4	<0.21	7.8	<0.25	<0.51
MW-10	10/26/2015	ug/L	<0.26	0.49 J	30.3	0.22 J	<0.22	<0.29	<0.3	506	<0.2	<2	66.4	1.1	0.25 J	45.2	0.5 J	<0.51
MW-10	4/12/2016	ug/L	<0.2	<0.26	6.7	<0.28	<0.24	<0.23	<0.3	90.8	<0.26	<2	43.3	1.2	<0.33	22.1	<0.31	<0.56
MW-10	10/25/2016	ug/L	<0.2	<0.26	9	<0.28	<0.24	<0.23	<0.3	146	<0.26	<2	41.4	7.2	0.49 J	13.5	<0.31	<0.56
MW-10	4/10/2017	ug/L	<0.25	<0.34	0.95 J	<0.31	<0.24	<0.53	<0.3	41	<0.28	<2	51.6	1.2	0.32 J	44.3	<0.41	<0.72
MW-10	10/17/2017	ug/L	<0.25	<0.34	23.7	<0.31	<0.24	<0.53	<0.3	350	<0.28	<2	149	<0.3	0.26 J	70.9	<0.41	<0.72
MW-10	5/9/2018	ug/l	0.26 J	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	136	<0.28	<2	180	<0.3	0.42 J	98.6	<0.41	<0.72

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-10D	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	4.09	NA	<1.00	<1.00	<1.00	NA
MW-10D	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-10D	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-10D	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-10D	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-10D	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-10D	10/25/2016	ug/L	<0.2 //h	<0.26 //h	<0.22 //h	<0.28 //h	<0.24 //h	<0.23 //h	<0.3 //h	<0.31 //h	<0.26 //h	<2 //h	<0.3 //h	<0.2 //h	<0.33 //h	<0.27 //h	<0.31 //h	<0.56 //h
MW-10D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MWT-3/MW-11	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MWT-3/MW-11	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MWT-3/MW-11	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-11	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-11	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	4.2	<0.21	<0.22	<0.25	<0.51
MW-11	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	1	<0.33	<0.27	<0.31	<0.56
MW-11	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	11/5/2009	ug/L	<1.00	<1.00	1.11	NA	NA	NA	NA	<1.00	NA	<1.00	87.7	NA	<1.00	<1.00	<1.00	NA
MW-12D	4/30/2010	ug/L	1.13	<1.00	3.67	NA	NA	NA	NA	<1.00	NA	<1.00	451	NA	<1.00	<1.00	<1.00	NA
MW-12D	10/25/2010	ug/L	<1.00	<1.00	1.07	NA	NA	NA	NA	<1.00	NA	<1.00	72.3	NA	<1.00	<1.00	<1.00	NA
MW-12D	5/23/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	12	<1.0	<1.0	<1.0	<2.0	<10
MW-12D	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	20.8	NA	<1.00	<1.00	<1.00	NA
MW-12D	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	21.4	NA	<1.00	<1.00	<1.00	NA
MW-12D	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	40.7	<0.2	<0.34	<0.3	<0.33	<0.66
MW-12D	10/29/2014	ug/L	<0.34	<0.26	0.64 J	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	25.5	<0.2	<0.34	<0.3	<0.33	<0.66
MW-12D	4/21/2015	ug/L	<0.26	<0.2	1.4	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	65.6	<0.4	<0.21	<0.22	<0.25	<0.51
MW-12D	10/27/2015	ug/L	<0.26	<0.2	0.54 J	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	25.1	<0.4	<0.21	<0.22	<0.25	<0.51
MW-12D	4/13/2016	ug/L	<0.4	<0.51	2.9	<0.57	<0.48	<0.46	<0.6	<0.62	<0.52	<4	140	<0.4	<0.66	<0.54	<0.63	<1.1
MW-12D	10/25/2016	ug/L	<0.2 //h	<0.26 //h	1.2 //h	<0.28 //h	<0.24 //h	<0.23 //h	<0.3 //h	<0.31 //h	<0.26 //h	<2 //h	69.2 //h	<0.2 //h	<0.33 //h	<0.27 //h	<0.31 //h	<0.56 //h
MW-12D	4/10/2017	ug/L	<0.25	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	98.6	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	10/18/2017	ug/L	<0.25	<0.34	0.48 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	39.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	5/8/2018	ug/l	<0.25	<0.34	0.55 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	33.5	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	11/5/2009	ug/L	<1.00	<1.00	1.92	NA	NA	NA	NA	<1.00	NA	<1.00	96.4	NA	<1.00	<1.00	<1.00	NA
MW-13D	4/30/2010	ug/L	3.34	<1.00	4.6	NA	NA	NA	NA	<1.00	NA	<1.00	292	NA	<1.00	<1.00	<1.00	NA
MW-13D	10/25/2010	ug/L	1.21	<1.00	3.45	NA	NA	NA	NA	<1.00	NA	<1.00	120	NA	<1.00	<1.00	<1.00	NA
MW-13D	5/23/2011	ug/L	<1.0	<1.0	1.6	NA	NA	NA	NA	<1.0	NA	<1.0	56	<1.0	<1.0	<1.0	<2.0	<10
MW-13D	11/8/2011	ug/L	<1.00	<1.00	1.4	NA	NA	NA	NA	<1.00	NA	<1.00	74.9	NA	<1.00	<1.00	<1.00	NA
MW-13D	5/9/2012	ug/L	<1.00	<1.00	1.25	NA	NA	NA	NA	<1.00	NA	<1.00	74.3	NA	<1.00	<1.00	<1.00	NA
MW-13D	3/11/2014	ug/L	1	<0.26	3.6	<0.24	<0.26	<0.2	0.6 J	<0.33	<0.36	<2	94.1	<0.2	<0.34	<0.3	<0.33	<0.66
MW-13D	10/29/2014	ug/L	<0.34	<0.26	2	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	47.6	<0.2	<0.34	<0.3	<0.33	<0.66
MW-13D	4/22/2015	ug/L	1.5	<0.2	4.4	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	84.8	<0.4	<0.21	<0.22	<0.25	<0.51
MW-13D	10/27/2015	ug/L	0.39 J	<0.2	1.7	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	84.5	<0.4	<0.21	<0.22	<0.25	<0.51
MW-13D	4/13/2016	ug/L	3.1	<0.26	5.4	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	151	<0.2	<0.33	<0.27	<0.31	<0.56
MW-13D	10/25/2016	ug/L	2.5 J	<1.3	7	<1.4	<1.2	<1.2	<1.5	<1.6	<1.3	<10	298	<1	<1.7	<1.4	<1.6	<2.8
MW-13D	4/10/2017	ug/L	1.6	<0.34	4.1	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	168	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	10/18/2017	ug/L	0.31 J	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	84	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	5/8/2018	ug/l	0.92 J	<0.34	2.9	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	92.5	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-14	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	5/23/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-14	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	2/26/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-14	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-14	4/20/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.46 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.72 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.9	<0.2	<0.33	<0.27	<0.31	<0.56
MW-14	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.66 J	<0.2	<0.33	<0.27	<0.31	<0.56
MW-14	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.9	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	5/10/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.3	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14D	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	18.7	NA	<1.00	<1.00	<1.00	NA
MW-14D	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	74.8	NA	<1.00	<1.00	<1.00	NA
MW-14D	10/25/2010	ug/L	<1.00	<1.00	1.12	NA	NA	NA	NA	<1.00	NA	<1.00	85.3	NA	<1.00	<1.00	<1.00	NA
MW-14D	5/23/2011	ug/L	<1.0	<1.0	1.4	NA	NA	NA	NA	<1.0	NA	<1.0	92	<1.0	<1.0	<1.0	<2.0	<10
MW-14D	11/8/2011	ug/L	<1.00	<1.00	1.11	NA	NA	NA	NA	<1.00	NA	<1.00	77.3	NA	<1.00	<1.00	<1.00	NA
MW-14D	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	82.1	NA	<1.00	<1.00	<1.00	NA
MW-14D	2/26/2014	ug/L	<0.34	<0.26	1.6	<0.24	<0.26	<0.2	<0.31	0.95 J	<0.36	<2	81.5	<0.2	<0.34	0.56 J	<0.33	<0.66
MW-14D	10/28/2014	ug/L	<0.34	<0.26	1.2	<0.24	<0.26	<0.2	<0.31	0.65 J	<0.36	<2	79.3	<0.2	<0.34	0.56 J	<0.33	<0.66
MW-14D	4/20/2015	ug/L	<0.26	<0.2	1.8	<0.2	<0.22	<0.29	<0.3	0.9 J	<0.2	<2	69.7	<0.4	<0.21	0.61 J	<0.25	<0.51
MW-14D	10/28/2015	ug/L	<0.26	<0.2	1	<0.2	<0.22	<0.29	<0.3	0.34 J	<0.2	<2	53.1	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14D	4/13/2016	ug/L	<0.2	<0.26	1.5	<0.28	<0.24	<0.23	<0.3	0.98	<0.26	<2	78.5	<0.2	<0.33	0.73	<0.31	<0.56
MW-14D	10/26/2016	ug/L	<0.2	<0.26	1.4	<0.28	<0.24	<0.23	<0.3	0.86 J	<0.26	<2	84.3	<0.2	<0.33	0.65 J	<0.31	<0.56
MW-14D	4/11/2017	ug/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	84.6	<0.3	<0.22	0.77 J	<0.41	<0.72
MW-14D	10/17/2017	ug/L	<0.25	<0.34	0.72 J	<0.31	<0.24	<0.53	<0.3	0.34 J	<0.28	<2	63.4	<0.3	<0.22	0.43 J	<0.41	<0.72
MW-14D	5/10/2018	ug/l	<0.25	<0.34	1.1	<0.31	<0.24	<0.53	<0.3	0.61 J	<0.28	<2	59.9	<0.3	<0.22	0.56 J	<0.41	<0.72
MW-15	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.6	<0.22	<0.35	<0.41	<0.72
MW-15	5/7/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15D	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15D	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	0.24 J	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D1	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D1	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D1	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D1	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D1	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D1	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D1	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D1	4/11/2017	ug/L	<0.25	<0.														

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-16	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-16	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-16	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16	3/6/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-16	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	0.48 J	<0.33	<0.27	<0.31	<0.56
MW-16	4/10/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	38.3	<0.22	<0.35	<0.41	<0.72
MW-16	5/7/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-16D	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-16D	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16D	3/6/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16D	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16D	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16D	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16D	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-16D	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-16D	4/10/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	5/7/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	3/10/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-17	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-17	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-17	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-17	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-17	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-18	3/10/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-18	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-18	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-18	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-18	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-18	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-19	3/6/2014	ug/L	<67	<51	<51	<48	<52	<40	<62	<65	<72	639 J	14000	<40	<69	<60	<65	<130
MW-19	10/28/2014	ug/L	16 J	<5.1	12 J	<4.8	<5.2	<4	<6.2	<6.5	<7.2	<40	3470	<4	<6.9	<6	<6.5	<13
MW-19	4/21/2015	ug/L	19.8 J	<4	15.6 J	<4	<4.3	<5.9	<6	12.5 J	<4	<40	4170	<8	<4.2	5.5 J	<5	<10
MW-19	10/28/2015	ug/L	34.6	<5	21.6 J	<5	<5.4	<7.4	<7.5	<5.5	<5	<50	8040	<10	<5.2	<5.4	<6.3	<13
MW-19	4/12/2016	ug/L	97.5	<26	39.1	<28	<24	<23	<30	<31	<26	221	16600	<20	<33	<27	<31	<56
MW-19	10/24/2016	ug/L	245	<51	<43	<57	<48	<46	<60	<62	<52	<400	34600	<40	<66	<54	<63	<110
MW-19	4/11/2017	ug/L	180 J	<85	<81	<78	<61	<130	<75	<69	<69	<500	24600	<75	<55	<86	<100	<180
MW-19	10/18/2017	ug/L	74.9 J	<85	<81	<78	<61	<130	299	<69	<69	<500	18700	<75	<55	<86	<100	<180
MW-19	5/9/2018	ug/l	69.5 J	<85	<81	<78	<61	<130	92.4 J	<69	<69	<500	18700	<75	<55	<86	<100	<180
MW-20	3/6/2014	ug/L	<3.4	<2.6	<2.5	<2.4	<2.6	<2	<3.1	4 J	<3.6	<20	648	<2	<3.4	5 J	<3.3	<6.6
MW-20	10/28/2014	ug/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	<1.6	<1.8	<10	428	<1	<1.7	2.7 J	<1.6	<3.3
MW-20	4/21/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	2.6 J	<1	<10	452	<2	<1	4.2 J	<1.3	<2.6
MW-20	10/28/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	<1.1	<1	11.1 J	623	<2	<1	4.6 J	<1.3	<2.6
MW-20	4/12/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.72	<0.26	<2	480	<0.2	<0.33	3.2	<0.31	<0.56
MW-20	10/24/2016	ug/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	<3.1	<2.6	<20	503	<2	<3.3	<2.7	<3.1	<5.6
MW-20	4/11/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	1.5 J	<1.4	<10	438	<1.5	<1.1	3.1 J	<2	<3.6
MW-20	10/18/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.4	4.8 J	<1.4	<10	312	<1.5	<1.1	2.2 J	<2	<3.6
MW-20	5/9/2018	ug/l	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	3.3 J	<1.4	<10	388	<1.5	<1.1	3.9 J	<2	<3.6
MW-21	3/11/2014	ug/L	<67	<51	<51	<48	<52	<40	<62	466	<72	765 J	16300	<40	<69	209	<65	<130
MW-21	10/28/2014	ug/L	<67	<51	<51	<48	<52	<40	<62	733	<72	<400	14500	<40	<69	354	<65	<130
MW-21	4/22/2015	ug/L	<0.26	<0.2	1	<0.2	<0.22	<0.29	<0.3	351	<0.2	<2	14500	<0.4	<0.21	225	<0.25	0.89 J
MW-21	10/28/2015	ug/L	<13	<10	<14	<10	<11	<15	<15	339	<10	<100	14600	<20	<10	180	<13	<26
MW-21	4/12/2016	ug/L	<10	<13	<11	<14	<12	<15	<15	383	<13	<100	13200	<10	<17	216	<16	<28
MW-21	10/25/2016	ug/L	<0.5	<0.64	<0.54	<0.71	<0.6	<0.58	<0.75	4.2	<0.65	<5	181	<0.5	<0.83	2.3 J	<0.79	<1.4
MW-21	4/12/2017																	

Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-21D	3/11/2014	ug/L	<0.67	<0.51	1.5 J	<0.48	10.4	1.8 J	131	0.84 J	1.8 J	13.3	283	0.41 J	<0.69	<0.6	<0.65	<1.3
MW-21D	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-21D	4/20/2015	ug/L	<0.26	<0.2	0.89 J	<0.2	<0.22	<0.29	<0.3	0.3 J	<0.2	<2	29.4	<0.4	<0.21	<0.22	<0.25	<0.51
MW-21D	10/27/2015	ug/L	<0.26	<0.2	0.36 J	<0.2	<0.22	<0.29	<0.3	0.23 J	<0.2	2.2 J	90.8	<0.4	<0.21	<0.22	<0.25	<0.51
MW-21D	4/12/2016	ug/L	<0.2	<0.26	0.49	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	8.6	<0.2	<0.33	<0.27	<0.31	<0.56
MW-21D	10/25/2016	ug/L	<0.5	<0.64	1.2 J	<0.71	<0.6	<0.58	<0.75	<0.78	<0.65	<5	169	<0.5	<0.83	<0.68	<0.79	<1.4
MW-21D	4/12/2017	ug/L	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	0.74 J	<0.28	<2	74.6	<0.3	<0.22	0.39 J	<0.41	<0.72
MW-21D	10/18/2017	ug/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	0.81 J	<0.28	<2	72.9	<0.3	<0.22	0.38 J	<0.41	<0.72
MW-21D	5/9/2018	ug/l	<0.25	<0.34	1.6	<0.31	<0.24	<0.53	<0.3	0.52 J	<0.28	<2	109	<0.3	<0.22	<0.35	<0.41	<0.72
MW-22D	3/11/2014	ug/L	<0.34	<0.26	2.5	<0.24	7.2	<0.2	180	0.35 J	0.68 J	<2	99.8	<0.2	<0.34	0.33 J	<0.33	<0.66
MW-22D	10/28/2014	ug/L	<0.34	<0.26	3.7	<0.24	<0.26	<0.2	<0.31	0.41 J	<0.36	<2	149	<0.2	<0.34	0.86 J	<0.33	<0.66
MW-22D	4/22/2015	ug/L	0.27 J	<0.2	3.8	<0.2	<0.22	<0.29	<0.3	0.56 J	<0.2	<2	107	<0.4	<0.21	0.68 J	<0.25	<0.51
MW-22D	10/27/2015	ug/L	0.38 J	<0.2	2.9	<0.2	<0.22	<0.29	<0.3	0.4 J	<0.2	<2	156	<0.4	<0.21	0.44 J	<0.25	<0.51
MW-22D	4/12/2016	ug/L	<0.2	<0.26	1.5	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	65.7	<0.2	<0.33	0.35	<0.31	<0.56
MW-22D	10/25/2016	ug/L	<0.2	<0.26	2.2	<0.28	<0.24	<0.23	<0.3	0.38 J	<0.26	<2	122	<0.2	<0.33	0.62 J	<0.31	<0.56
MW-22D	4/10/2017	ug/L	<0.5	<0.68	2	<0.62	<0.48	<1.1	<0.6	0.61 J	<0.55	<4	96.6	<0.6	<0.44	0.79 J	<0.82	<1.4
MW-22D	10/18/2017	ug/L	<0.25	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	0.64 J	<0.28	<2	130	<0.3	<0.22	0.63 J	<0.41	<0.72
MW-22D	5/8/2018	ug/l	<0.25	<0.34	2.9	<0.31	<0.24	<0.53	<0.3	0.93 J	<0.28	<2	106	<0.3	<0.22	0.79 J	<0.41	<0.72
MW-23D	3/12/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-23D	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-23D	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-23D	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-23D	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-23D	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-23D	4/10/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-23D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-23D	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-24	12/4/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	2.9	<1	<10	344	<2	<1	<1.1	<1.3	<2.6
MW-24	4/12/2016	ug/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	59.2	<1.3	<10	1160	<1	<1.7	6.1	<1.6	<2.8
MW-24	10/24/2016	ug/L	<4	<5.1	<4.3	<5.7	<4.8	<4.6	<6	22.9	<5.2	<40	1340	<4	<6.6	<5.4	<6.3	<11
MW-24	4/12/2017	ug/L	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	52.7	<5.5	<40	2070	<6	<4.4	8.4 J	<8.2	<14
MW-24	10/18/2017	ug/L	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	49.9	<5.5	<40	1600	7.2 J	<4.4	<6.9	<8.2	<14
MW-24	5/9/2018	ug/l	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	43.5	<5.5	<40	2050	<6	<4.4	<6.9	<8.2	<14
MW-25D	12/4/2015	ug/L	<0.26	<0.2	3.4	<0.2	<0.22	<0.29	<0.3	1.3	<0.2	<2	129	<0.4	<0.21	0.95	<0.25	<0.51
MW-25D	4/12/2016	ug/L	<0.2	<0.26	3.4	<0.28	<0.24	<0.23	<0.3	1.1	<0.26	<2	74.8	<0.2	<0.33	0.96	<0.31	<0.56
MW-25D	10/25/2016	ug/L	<0.4	<0.51	2.3	<0.57	<0.48	<0.46	<0.6	0.89 J	<0.52	6.1 J	125	<0.4	<0.66	0.84 J	<0.63	<1.1
MW-25D	4/10/2017	ug/L	<0.5	<0.68	3.1	<0.62	<0.48	<1.1	<0.6	1 J	<0.55	<4	105	<0.6	<0.44	0.88 J	<0.82	<1.4
MW-25D	10/18/2017	ug/L	<0.25	<0.34	3.1	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	116	<0.3	<0.22	0.8 J	<0.41	<0.72
MW-25D	5/8/2018	ug/l	<0.25	<0.34	3.8	<0.31	<0.24	<0.53	<0.3	1.4	<0.28	<2	123	<0.3	<0.22	0.98 J	<0.41	<0.72
MW-26D	12/4/2015	ug/L	<0.26	<0.2	1.9	<0.2	<0.22	<0.29	<0.3	1.1	<0.2	<2	98.1	<0.4	<0.21	1.1	<0.25	<0.51
MW-26D	4/12/2016	ug/L	<0.26	<0.26	1.8	<0.28	<0.24	<0.23	<0.3	0.93	<0.26	<2	62.6	<0.2	<0.33	1.1	<0.31	<0.56
MW-26D	10/25/2016	ug/L	<0.2	<0.26	1.6	<0.28	<0.24	<0.23	<0.3	1	<0.26	<2	75	<0.2	<0.33	0.97 J	<0.31	<0.56
MW-26D	4/10/2017	ug/L	<0.25	<0.34	1.9	<0.31	<0.24	<0.53	<0.3	0.97 J	<0.28	<2	75.2	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	10/18/2017	ug/L	<0.25	<0.34	1.9	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	76	<0.3	<0.22	1.1	<0.41	<0.72
MW-26D	5/8/2018	ug/l	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	1.2	<0.28	<2	88.6	<0.3	<0.22	1.2	<0.41	<0.72
MW-27	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-27	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.39 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-27	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.24 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	5.4	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.56 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-30D	4/13/2017	ug/L	<0.25	<0.34	2.3	<0.31	<0.24	<0.53	0.41 J	0.64 J	<0.28	<2	75.2	<0.3	<0.22	0.87 J	<0.41	<0.72
MW-30D	10/18/2017	ug/L	<0.25	<0.34	2.1	<0.31	<0.24	<0.53	<0.3	0.43 J	<0.28	<2	88.1	<0.3	<0.22	0.49 J	<0.41	<0.72
MW-30D	5/8/2018	ug/l	<0.25	<0.34	3.1	<0.31	<0.24	0.65 J	<0.3	0.97 J	<0.28	<2	86.7	<0.3	<0.22	1.1	<0.41	<0.72
MW-31D	4/13/2017	ug/L	<0.25	<0.34	3.1	<0.31	0.82 J	<0.53	1.8	<0.28	<0.28	<2	89.2	<0.3	<0.22	0.41 J	<0.41	2.6 J
MW-31D	10/18/2017	ug/L	<0.25	<0.34	4.7	<0.31	<0.24	<0.53	<0.3	2	<0.28	<2	161	<0.3	<0.22	0.61 J	<0.41	<0.72
MW-31D	5/8/2018	ug/l	<0.25	<0.34	6	<0.31	<0.24	<0.53	<0.3	2.5	<0.28	<2	181	<0.3	<0.22	1	<0.41	<0.72
MW-32D	4/13/2017	ug/L	<0.25	<0.34	0.63 J	<0.31	0.27 J	<0.53	0.79 J	<0.28	<0.28	<2	25	<0.3	<0.22	0.36 J	<0.41	1.2 J
MW-32DR	10/18/2017	ug/L	<0.25															

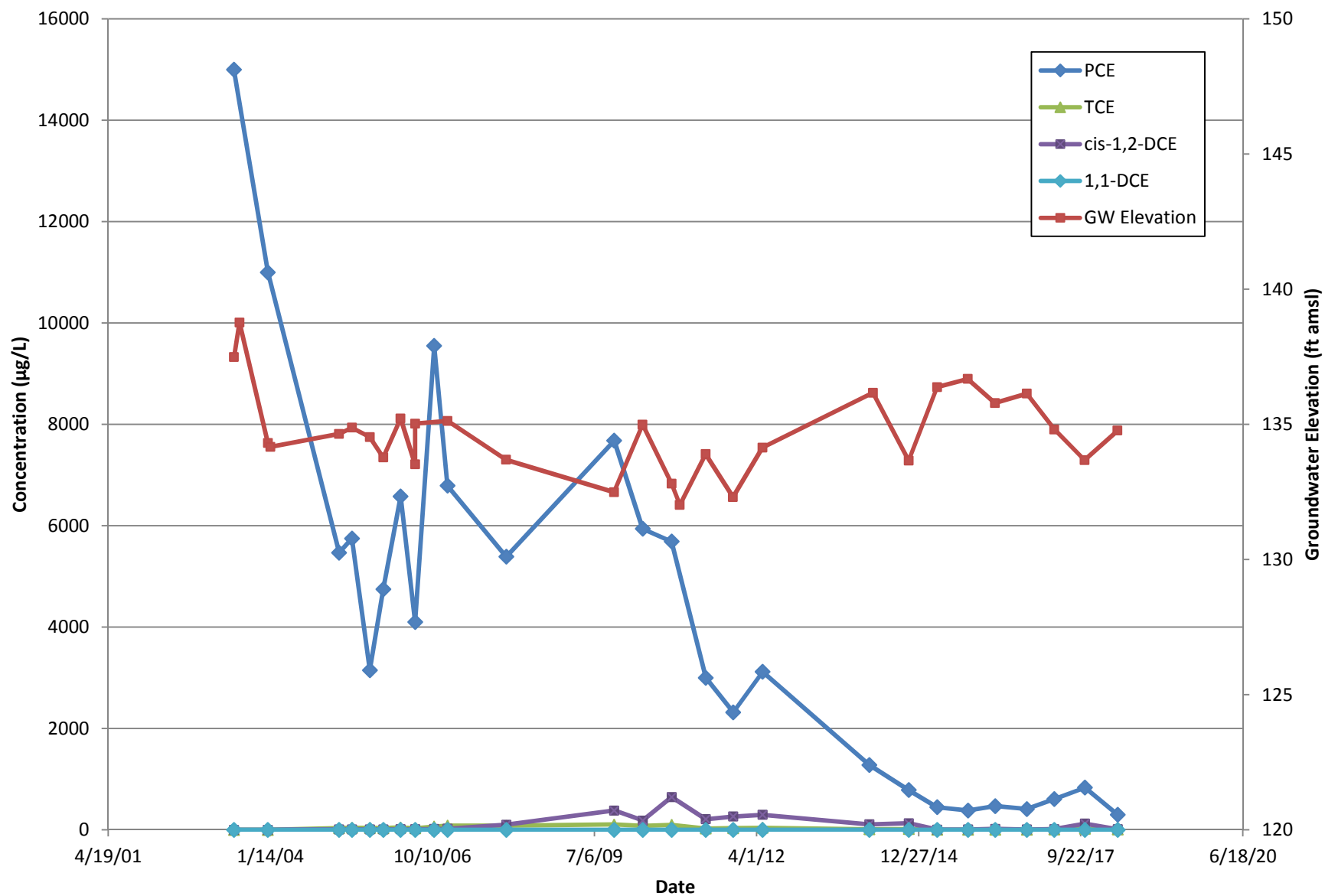
Appendix C
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
SW-1	6/5/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	1	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
SW-1	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
SW-1	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
SW-1	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA

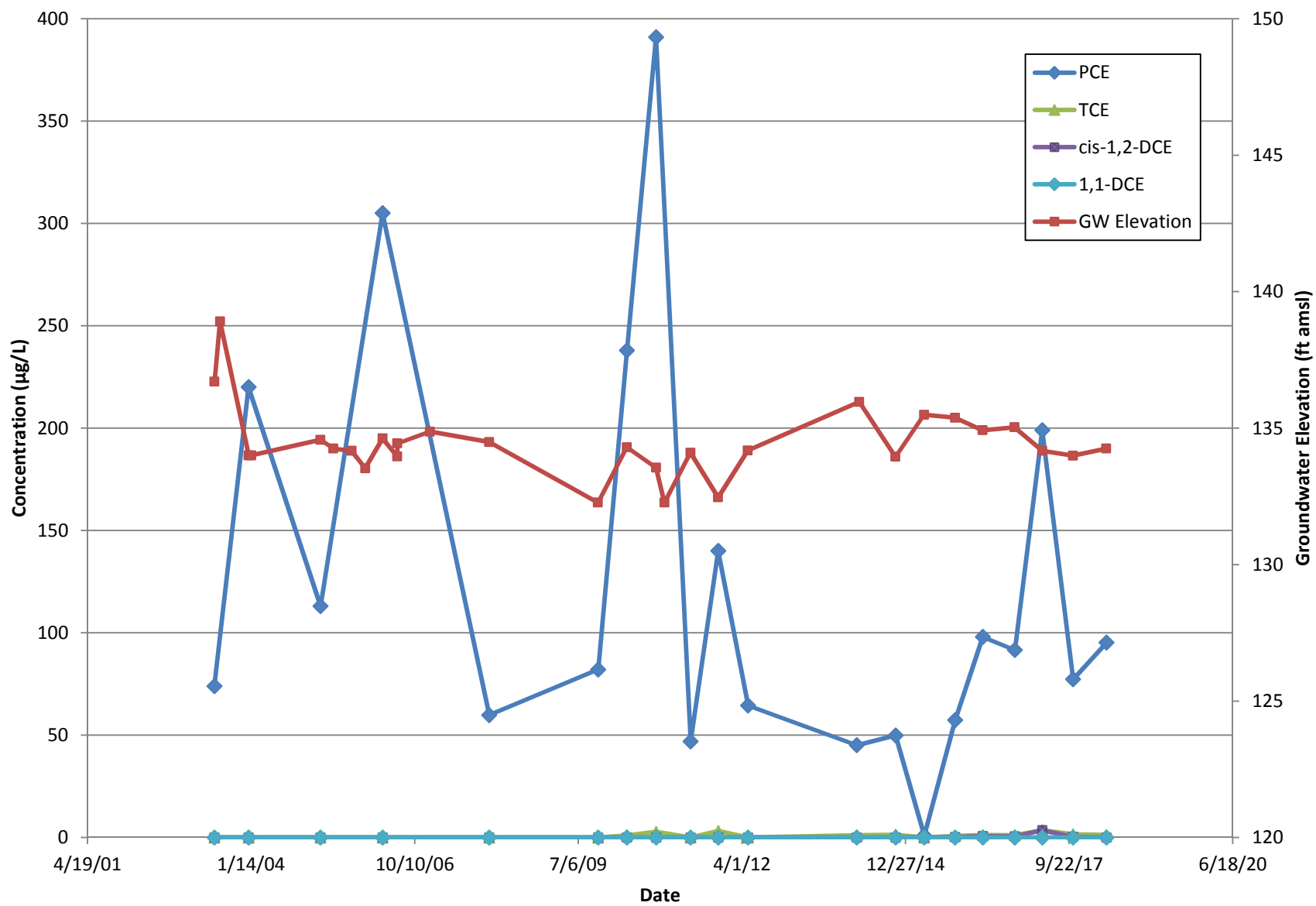
Notes:
NA - Not available NS - Not sampled

APPENDIX D
TREND PLOTS

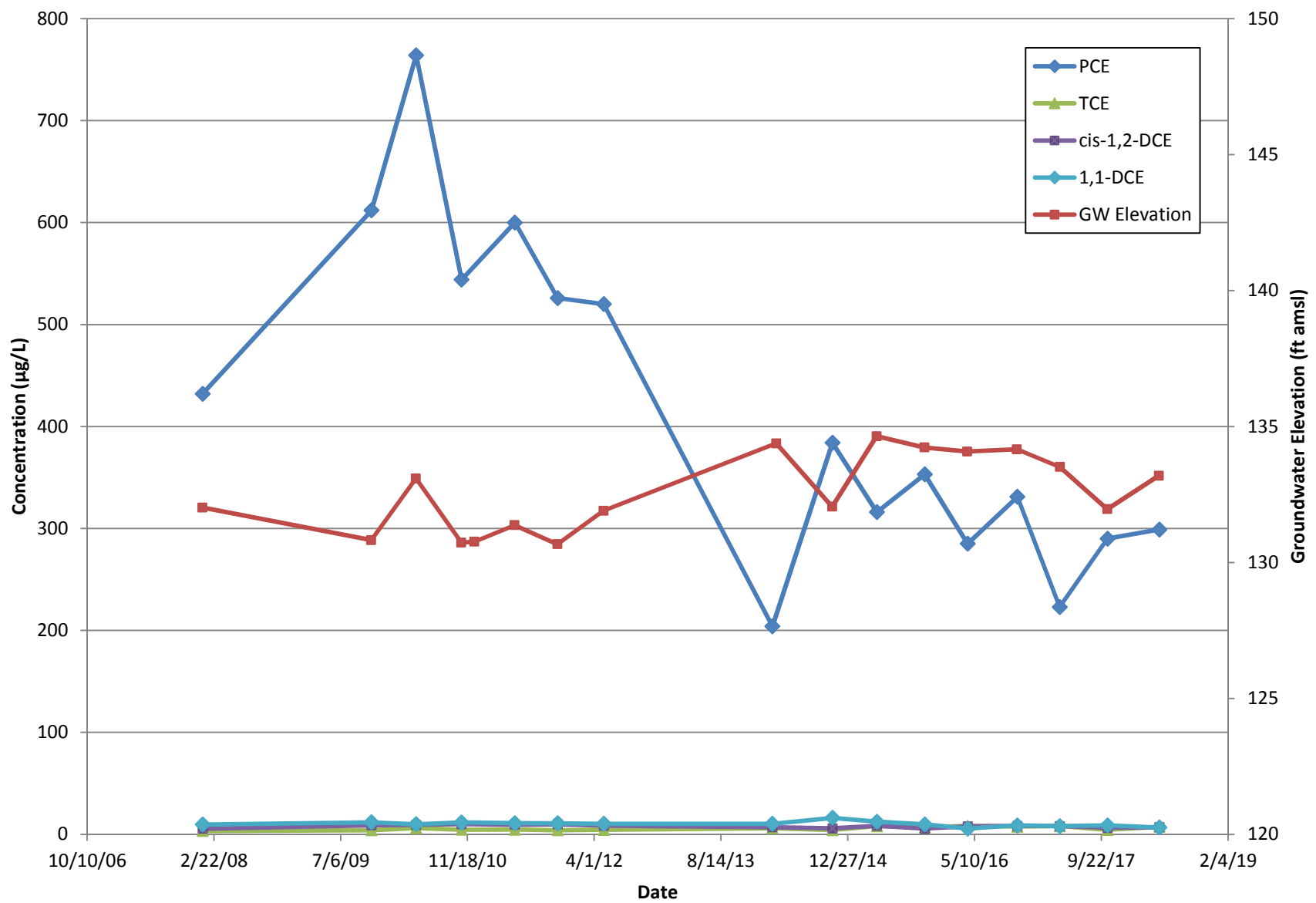
MW-1 Concentrations and Groundwater Elevation with Time



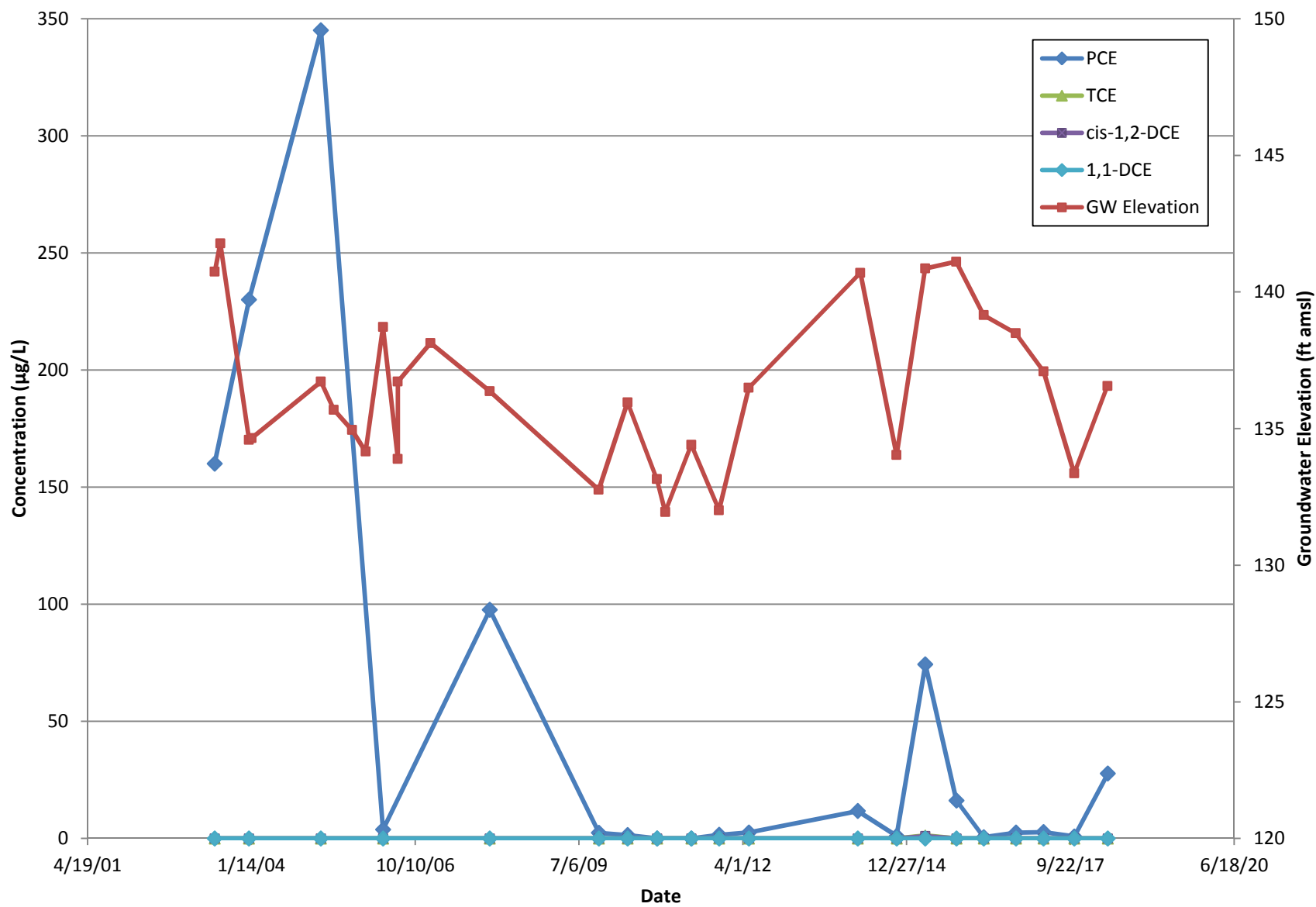
MW-3 Concentrations and Groundwater Elevation with Time



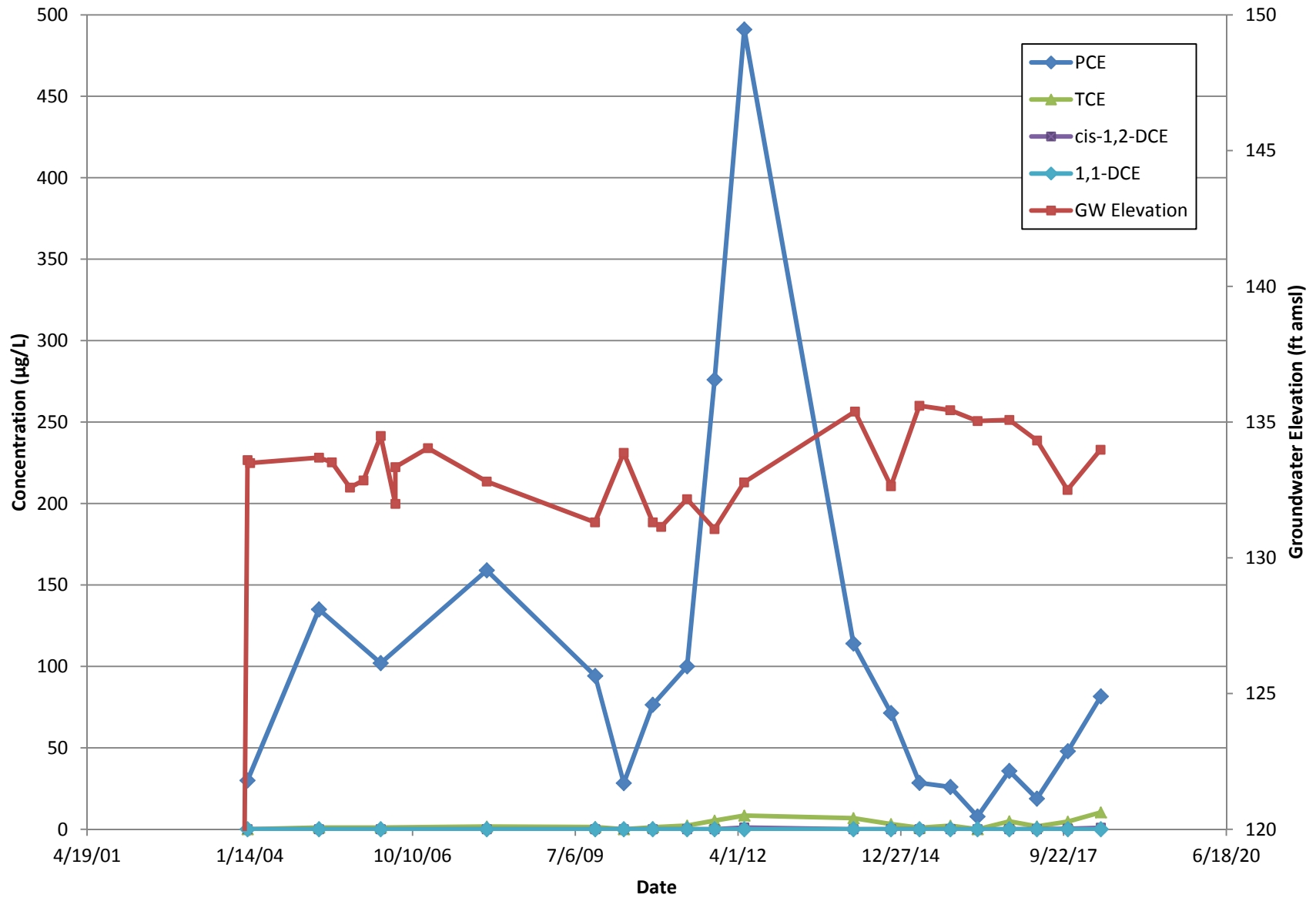
MW-3D Concentrations and Groundwater Elevation with Time



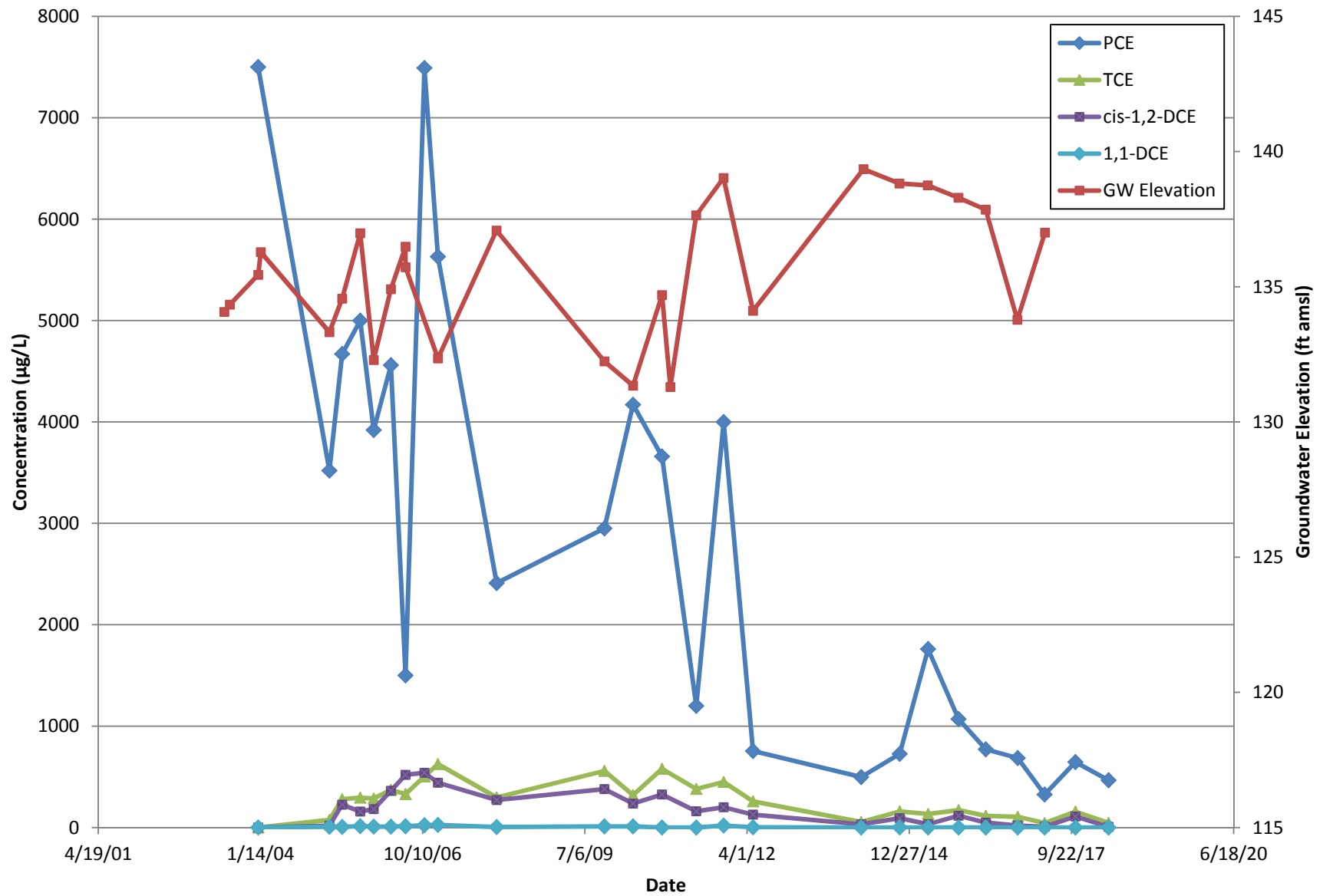
MW-5 Concentrations and Groundwater Elevation with Time



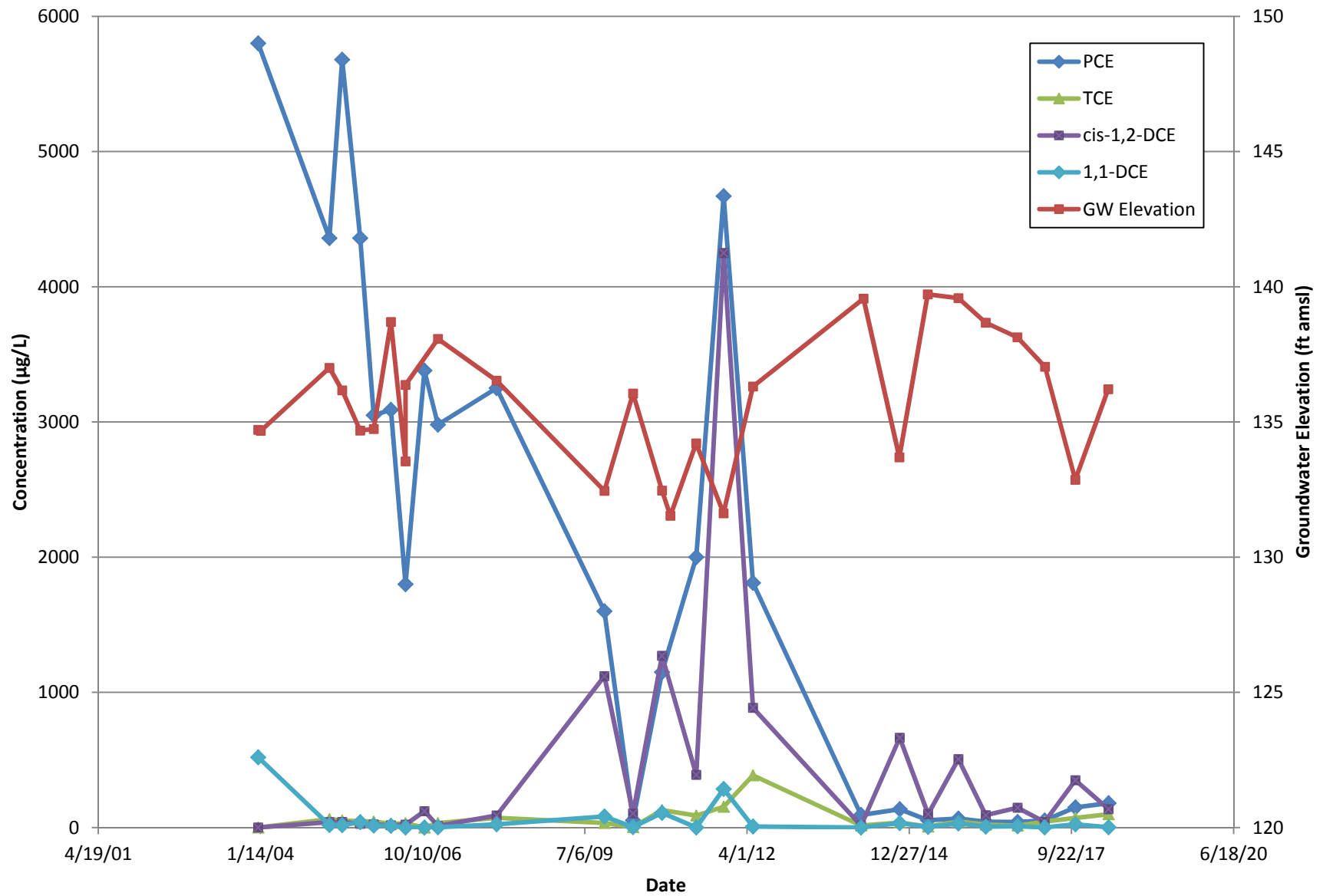
MW-8 Concentrations and Groundwater Elevation with Time



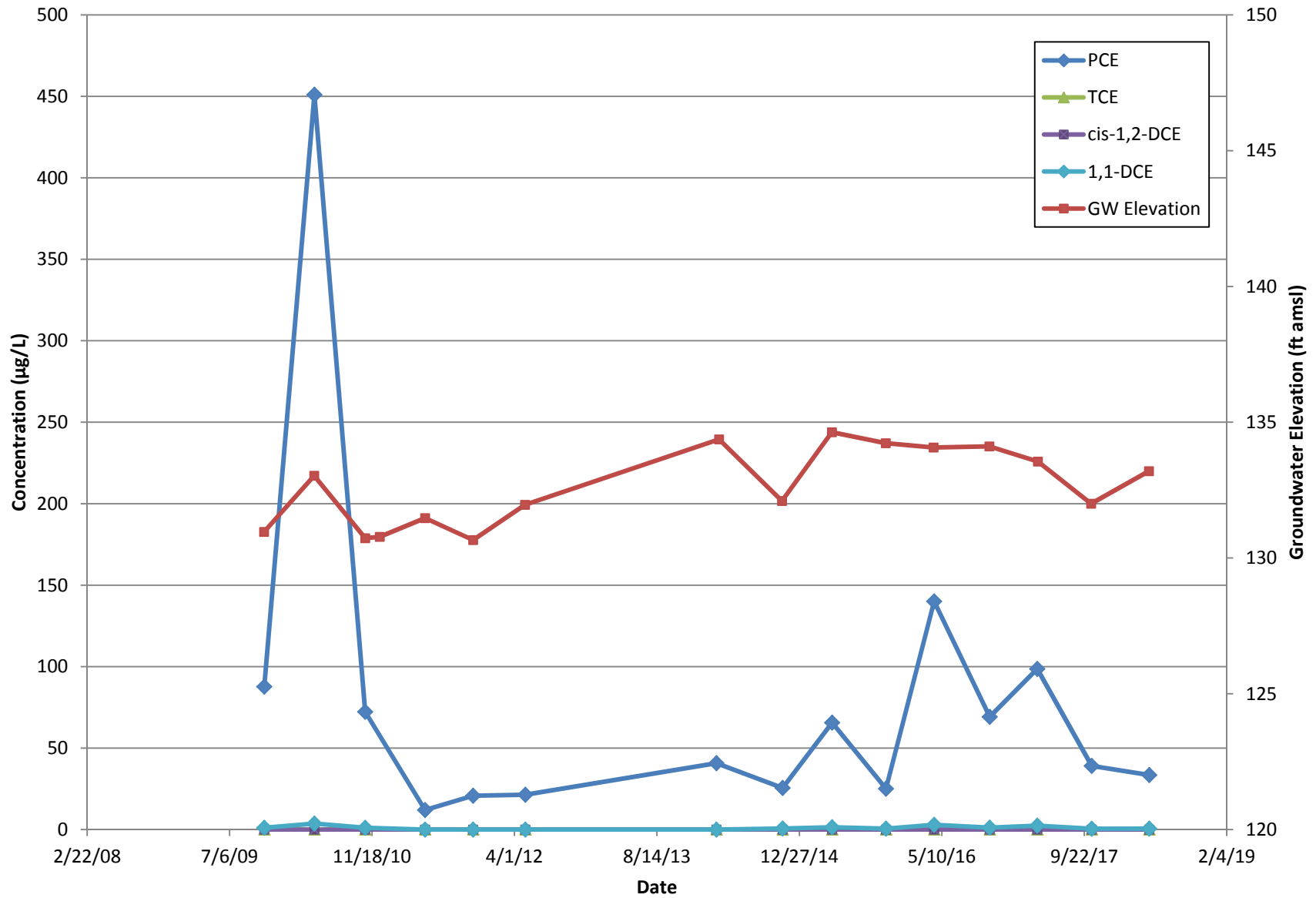
MW-9 Concentrations and Groundwater Elevation with Time



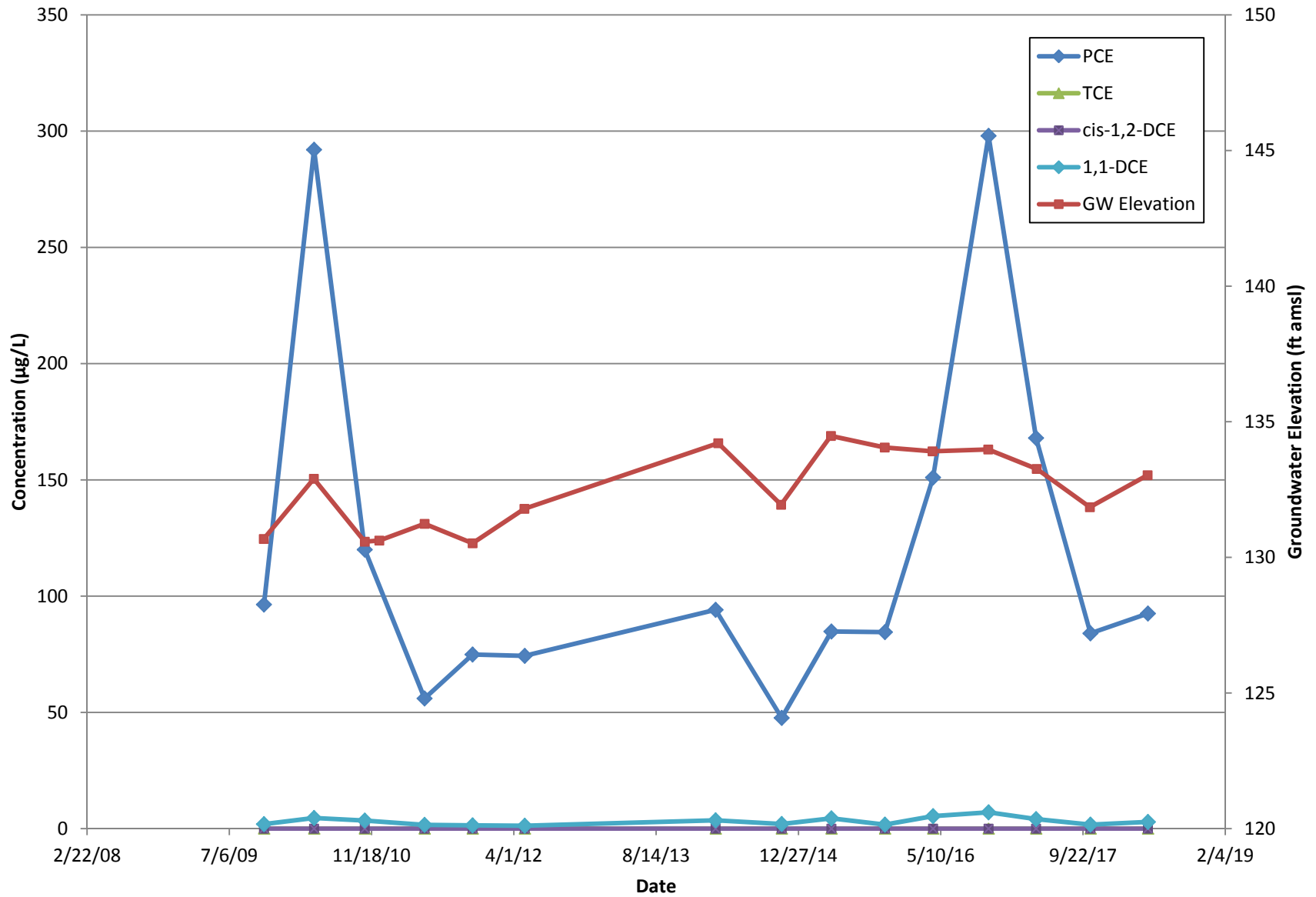
MW-10 Concentrations and Groundwater Elevation with Time



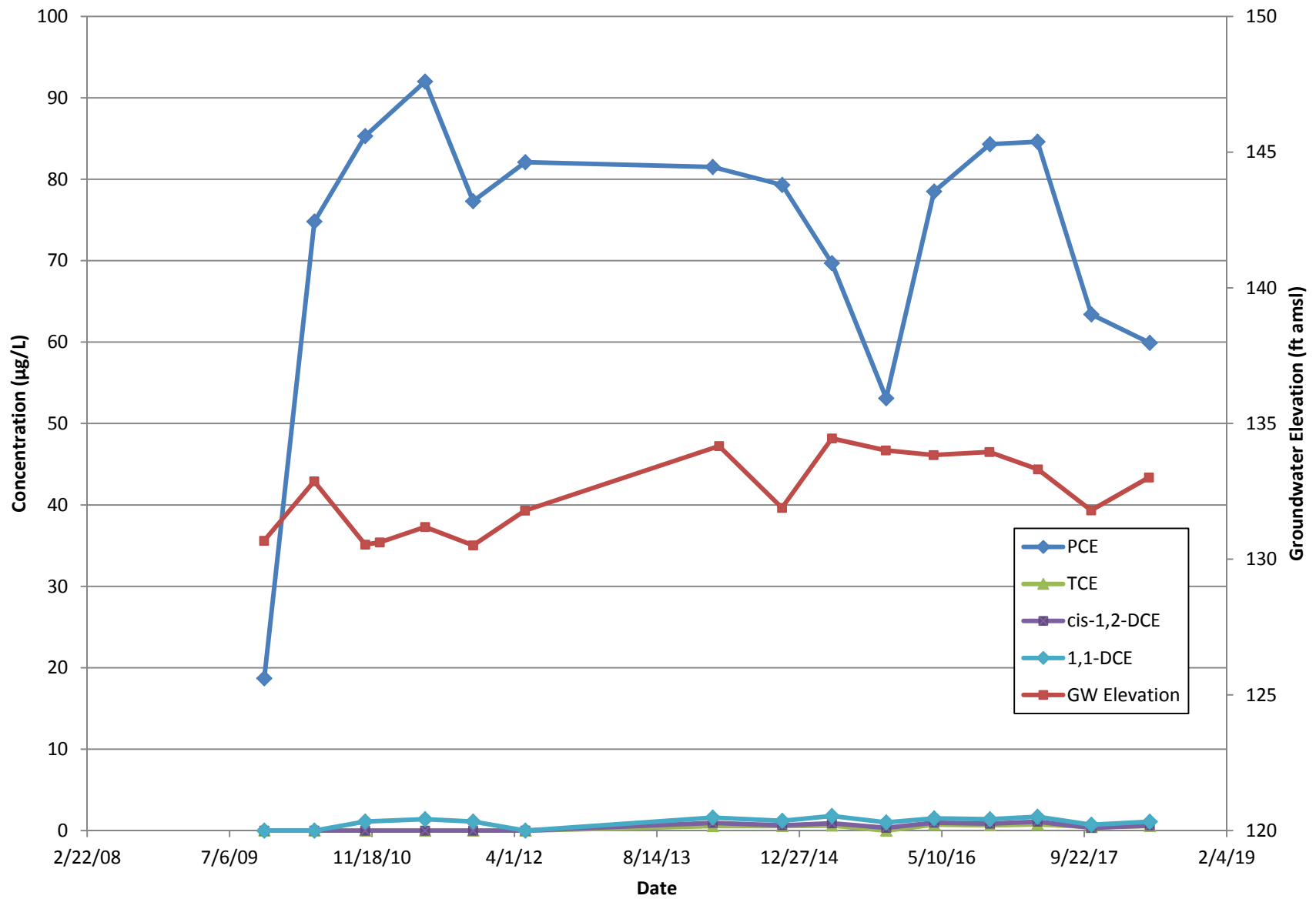
MW-12D Concentrations and Groundwater Elevation with Time



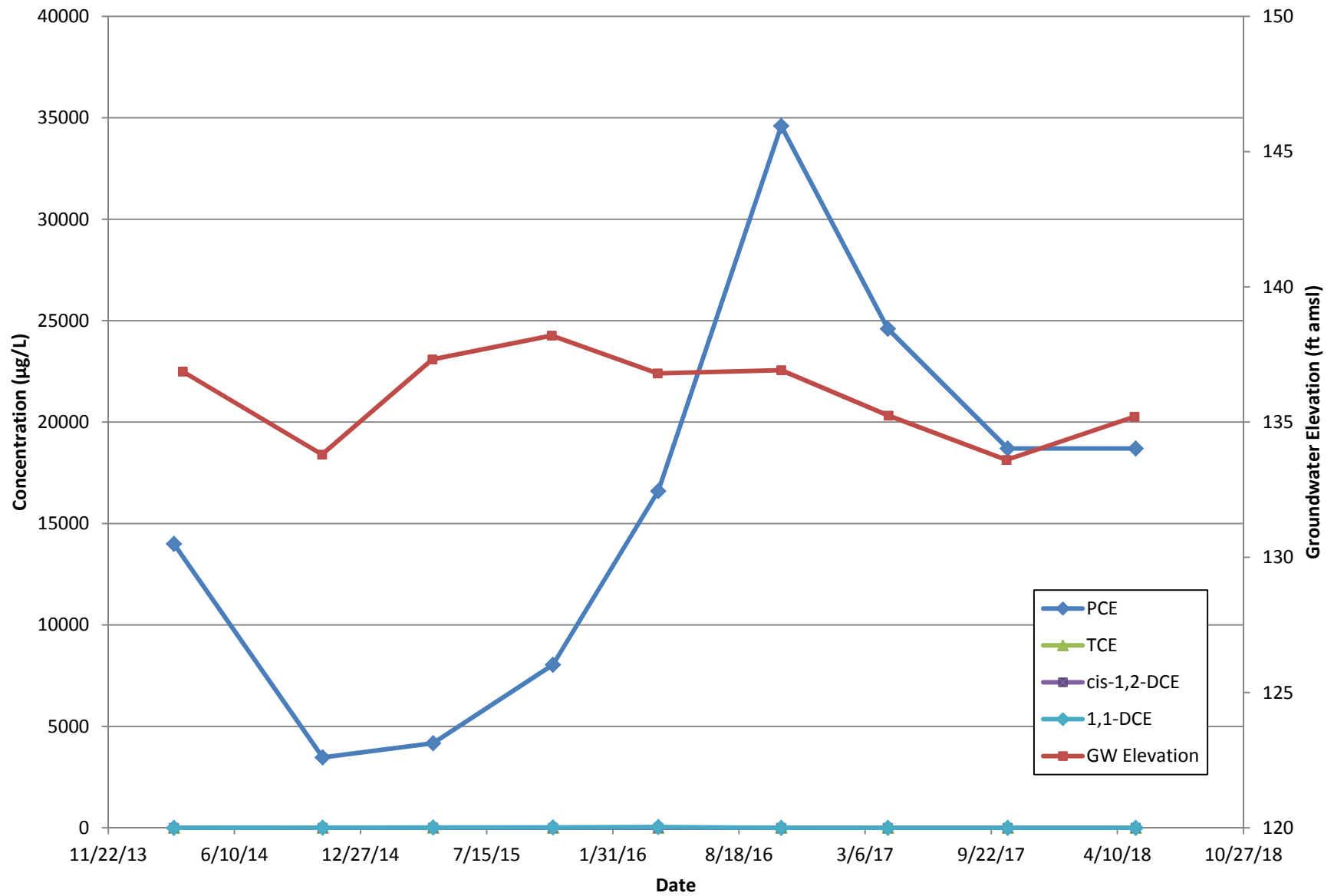
MW-13D Concentrations and Groundwater Elevation with Time



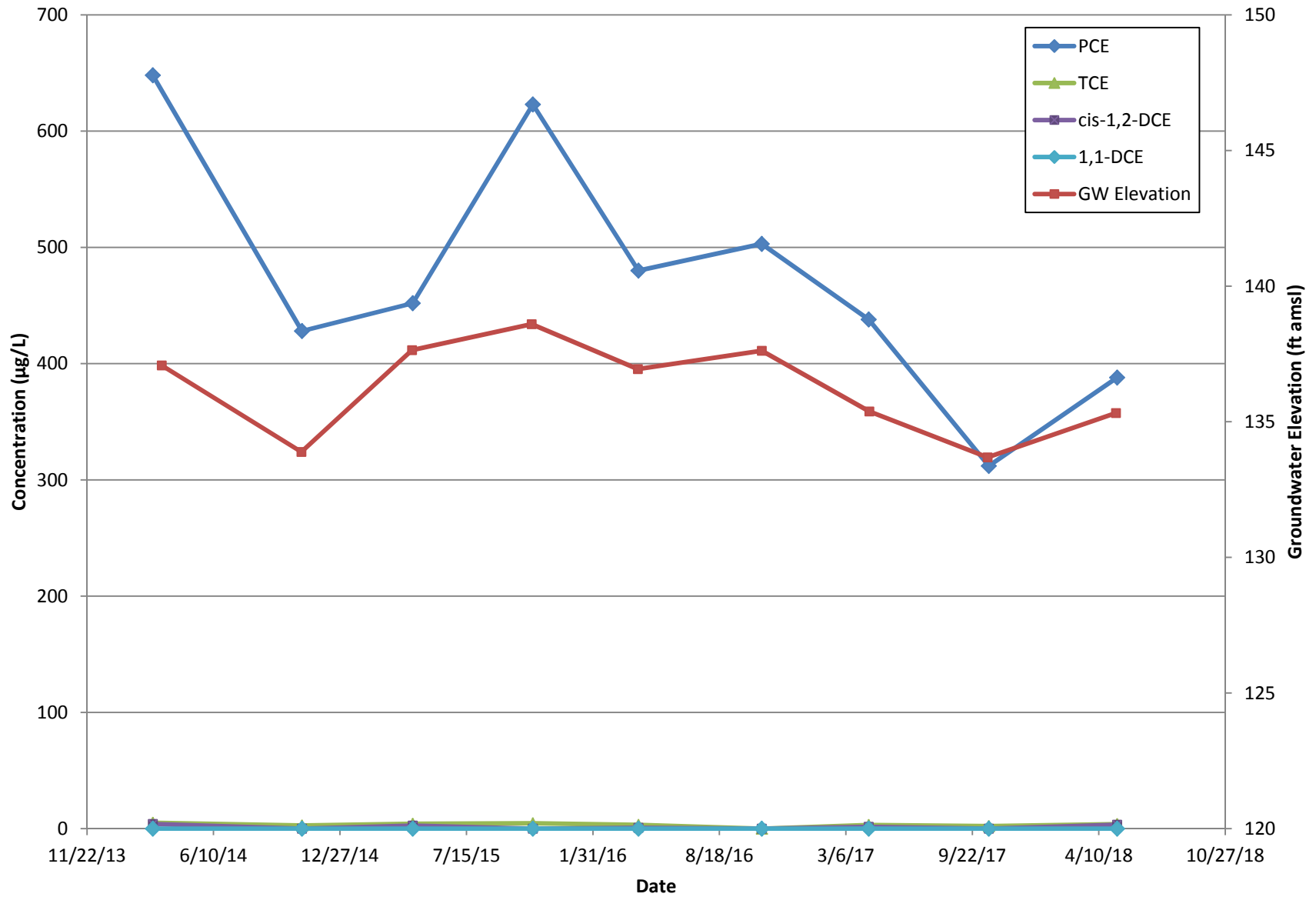
MW-14D Concentrations and Groundwater Elevation with Time



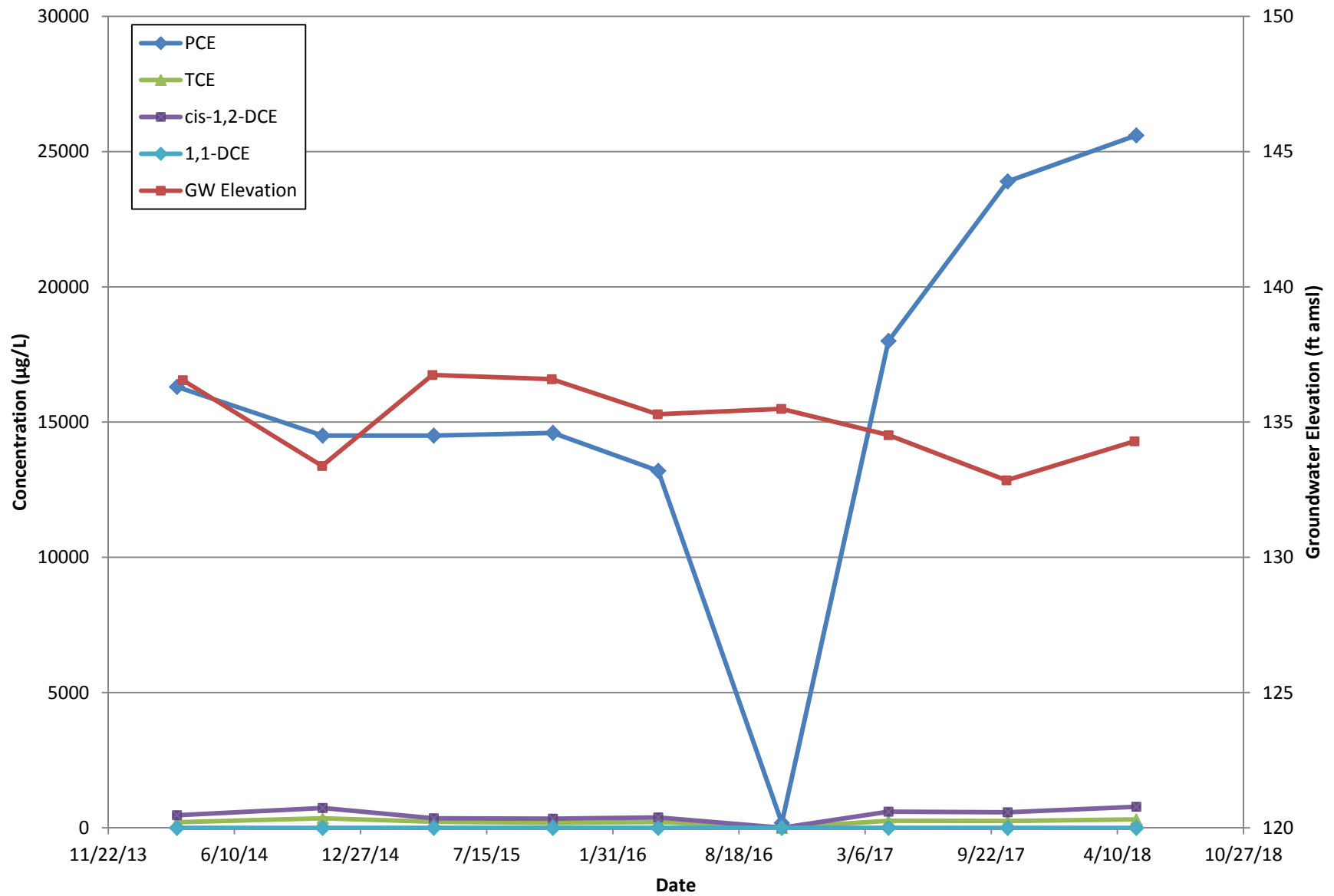
MW-19 Concentrations and Groundwater Elevation with Time



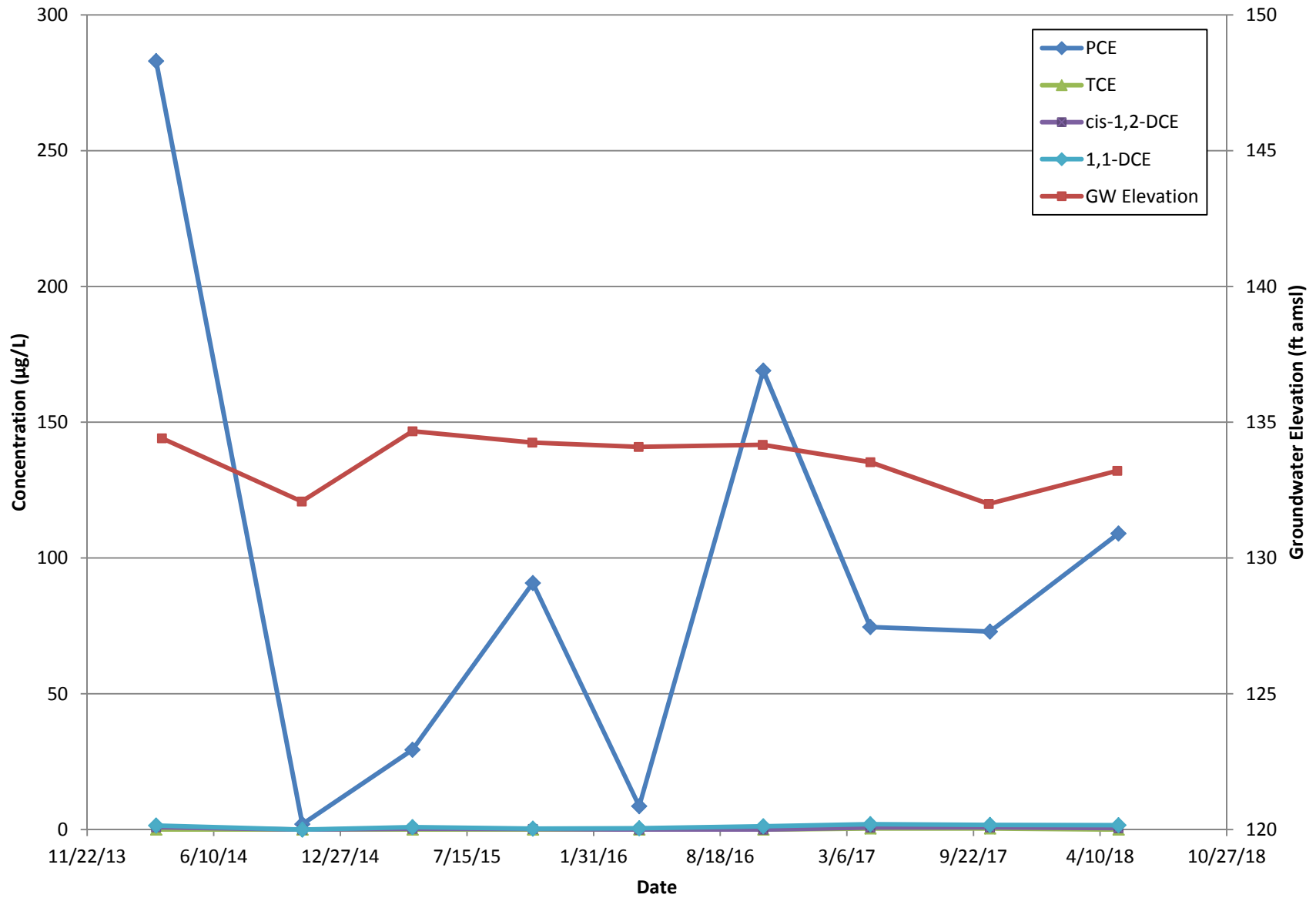
MW-20 Concentrations and Groundwater Elevation with Time



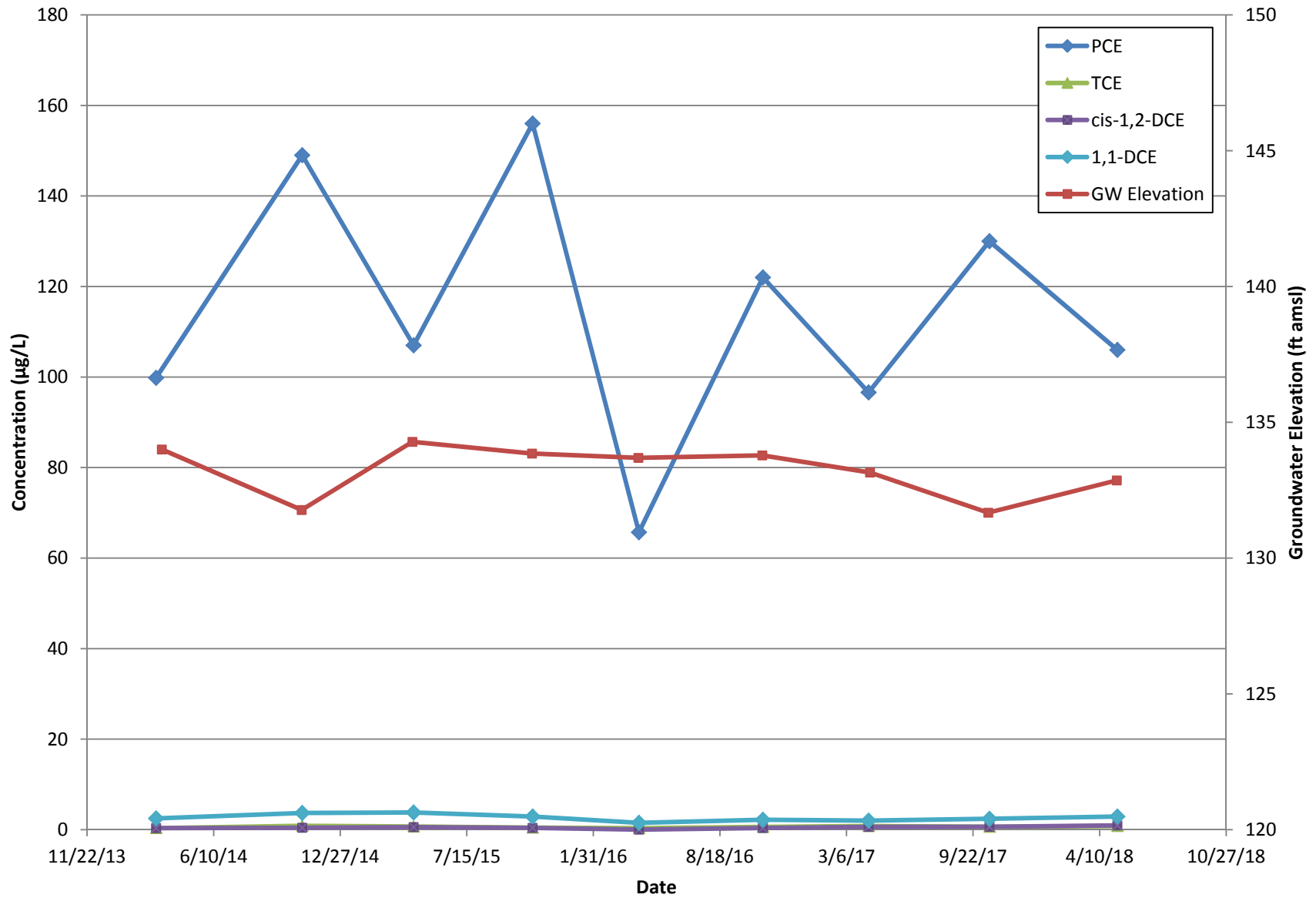
MW-21 Concentrations and Groundwater Elevation with Time



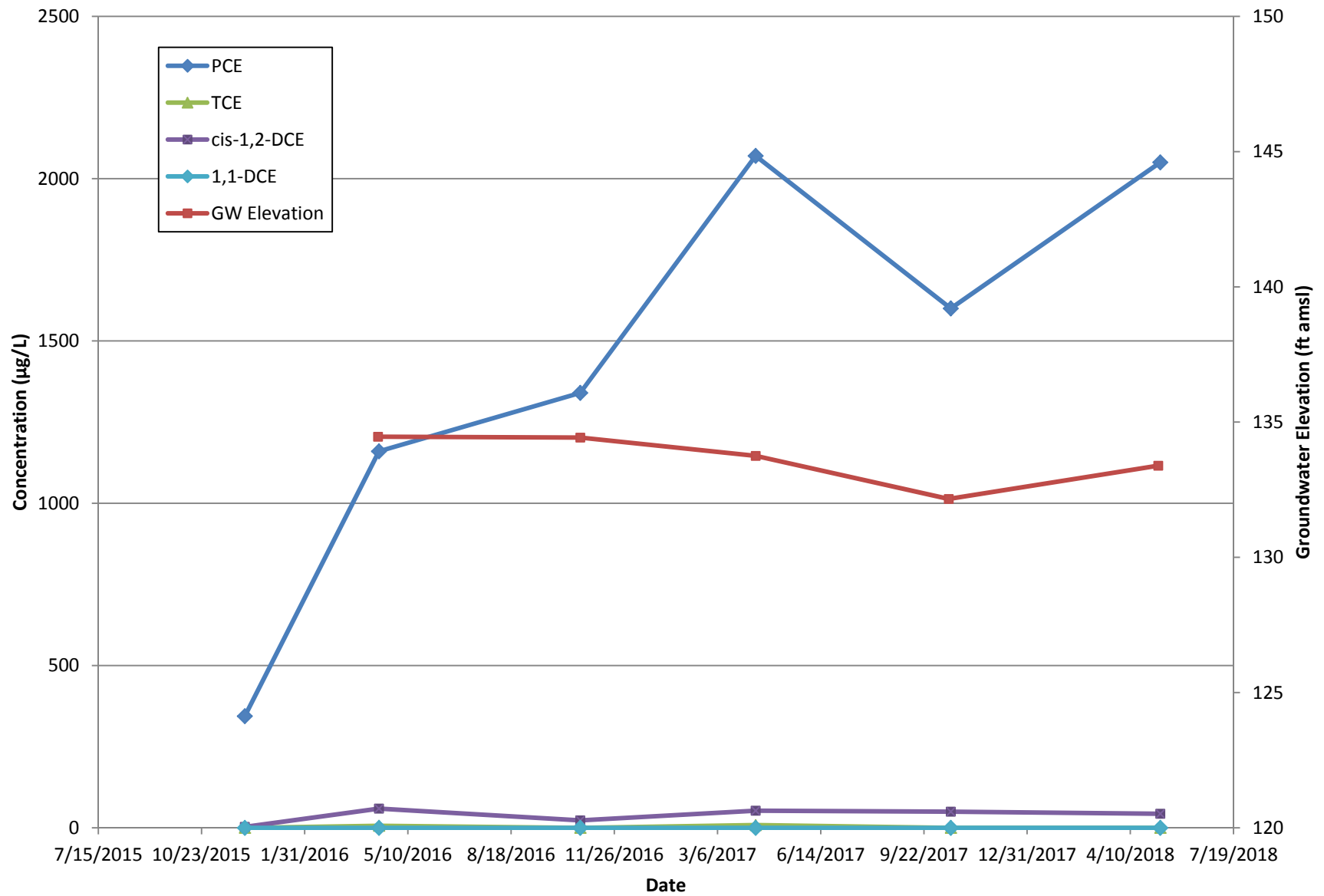
MW-21D Concentrations and Groundwater Elevation with Time



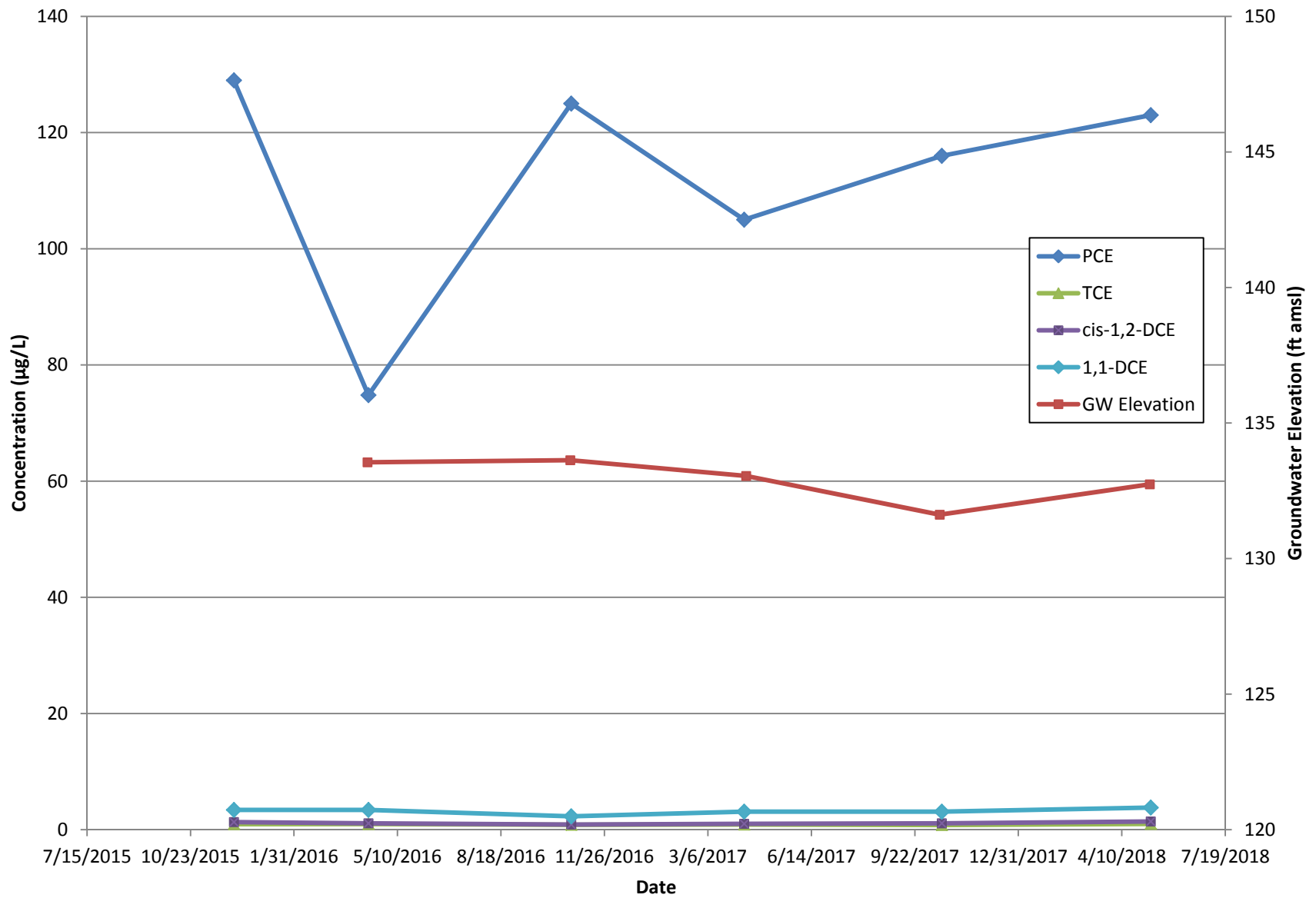
MW-22D Concentrations and Groundwater Elevation with Time



MW-24 Concentrations and Groundwater Elevation with Time



MW-25D Concentrations and Groundwater Elevation with Time



MW-26D Concentrations and Groundwater Elevation with Time

