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March 5, 2021

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

RECEIVED
MAR 11 2021
SITE ASSESSMENT, REMEDIATION, & REVITALIZATION

Re. Fall 2020 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 60629985

Dear Ms. Devlin:

On behalf of Raytheon Technologies Corporation, AECOM is providing you one (1) hard copy and one (1) electronic copy of the Fall 2020 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.

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Fall 2020 Semi-Annual Groundwater Monitoring Report

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

VCC 13-4762-RP

Prepared by:

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

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REMEDIATION, &
REVITALIZATION

March 5, 2021

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FALL 2020 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

DELAVAN SPRAY TECHNOLOGIES SITE
BAMBERG, SOUTH CAROLINA

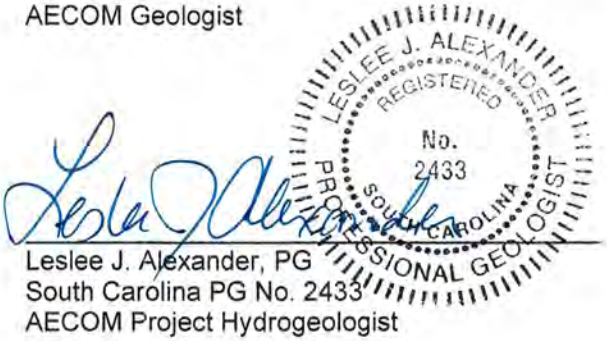
RESPONSIBILE PARTY VOLUNTARY CLEANUP CONTRACT NUMBER 13-4762

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:

Mariah Rockwell
AECOM Geologist

March 5, 2021
Date



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

March 5, 2021
Date

Reviewed by:

Conan Fitzgerald
AECOM Project Manager

March 5, 2021
Date

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1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM) has prepared this *Fall 2020 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 fall 2020 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**). Statistical analyses used for sampling frequency optimization is presented in **Section 5.0** and conclusions and recommendations based on the results are discussed in **Section 6.0**. Cited references are provided in **Section 7.0**.

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** and a map of the monitoring well network is provided as **Figure 3**.

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 compound concentrations 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 compounds of concern 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 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 SCDHEC 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 was submitted on August 27, 2018 and approved in correspondence from SCDHEC dated September 20, 2018. The work plan was implemented in November 2019 once offsite access agreements were established and included the installation of four additional limestone aquifer monitoring wells to delineate the PCE plume in the limestone aquifer. Concentrations of PCE and its degradation products (TCE, cis-1,2-DCE, and vinyl chloride) were below their respective MCLs and these wells complete the delineation of PCE in the limestone downgradient of the Site (AECOM, June 2020).

After SCDHEC review of the *Limestone Aquifer Assessment Work Plan*, in correspondence dated December 18, 2017, SCDHEC requested that Delavan conduct sampling of residential drinking water wells downgradient of the Site. Delavan and AECOM worked with SCDHEC to sample select residential drinking water wells:

- Along Lemon Creek and Orange Grove Roads between US Highway 301 (Main Highway) and US Highway 601 (Broxton Bridge Road) south/southwest of the Site (22 wells);
- Along Broxton Bridge Road between US Highway 301 and Orange Grove Road southeast of the Site (3 wells); and
- Along US Highway 301 southwest of the Site (2 wells).

Samples were collected from 27 residential wells between January and April 2018 and submitted for analysis of PCE and select degradation products (see **Figure 4** of the *Fall 2019 Semi-Annual Groundwater Monitoring Report*; AECOM, January 2020). In 9 of the samples, PCE was detected at low levels below its USEPA MCL of 5 micrograms per liter (µg/L). Subsequently, PCE was detected in two additional residential wells in October 2018 and one additional well in April 2019. PCE was not detected in the remaining residential well samples (AECOM, February 2018; June 2018, January 2019, and June 2019). Although the PCE detections in the residential wells were well below the MCL, Delavan offered to install granular activated carbon (GAC) treatment units on the drinking water wells where the PCE was detected at no cost

to the residents (note – one impacted residential well is used for irrigation water only and, therefore, a GAC unit was not installed on this well). All 11 residents with impacted drinking water wells elected to have GAC units installed. Eight of the GAC treatment units were installed in July 2018 and treatment verification sampling was completed in August and September 2018 (AECOM, January 15, 2019). Three additional GAC treatment units were installed in October 2019 and verification sampling was completed in November 2019 (AECOM, February 2020).

In addition to completing the off-site delineation, Delavan has prioritized developing plans 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. To address these "hot spots", 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 concurrent with on-going delineation in the limestone aquifer down-gradient of the Facility to begin to identify remedial technologies for the site. Delavan and AECOM also prepared a work plan for high resolution site characterization (HRSC) of the "hot spots" beneath the Facility using membrane interface probe (MIP) and hydraulic profiling tool (HPT) technology. This work plan was submitted to SCDHEC on February 11, 2019 and was approved by SCDEHC in correspondence dated March 1, 2019. The HRSC investigation was completed in July 2020 and the report is scheduled for submittal in March 2021. The data will be used during upcoming evaluation and planning for remediation in former source areas.

After completing the limestone aquifer delineation field work, personnel from Raytheon Technologies Corporation and AECOM, on behalf of Delavan Spray LLC, met with SCDHEC to discuss the results of the off-site delineation and the path forward for the Site. Following this meeting, SCDHEC requested that surface water samples be collected from the unnamed tributary to Lemon Creek during the next semi-annual sampling effort (SCDHEC, March 2020). AECOM submitted the proposed plan for surface water sampling to SCHDEC on March 25, 2020 and SCHDEC approved the plan in correspondence dated April 7, 2020. The results of the surface water sampling were detailed in **Section 4.0** of the *Spring 2020 Semi-Annual Groundwater Monitoring Report* (AECOM, July 2020). Surface water samples were collected in October 2020 and are discussed in **Section 4.3**. of this report.

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 characterization, 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, poorly- to moderately-cemented limestone containing finer-grained shell fragments. The lower geologic zone has been described as a loose- to

moderately-cemented, calcareous, fine- to medium-grained clayey sandstone based on borings for monitoring wells MW-3D1 and MW-15D1 (H&H, 2013). However, this zone was not encountered during the limestone aquifer delineation downgradient (south) of the Site, where the white, cemented limestone and shell fragments were observed to become finer-grained and persist to a depth of at least 84 feet below ground surface. These relationships were illustrated on cross-sections included as **Figure 3** of the *Deep Groundwater Delineation Technical Memorandum* (AECOM, June 2020).

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

Fall 2020 semi-annual sampling activities were completed by AECOM personnel during October 19-21, 2020. 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 2018 Semi-Annual Groundwater Monitoring Report* (AECOM, January 2019).

Semi-annual groundwater monitoring activities included:

- Groundwater level measurements were collected from 46 existing monitoring wells (**Figure 3**);
- Groundwater samples were collected from 46 existing monitoring wells using low-flow sampling techniques. Groundwater indicator parameters were collected from each well and all 46 groundwater samples were submitted for analysis of VOCs;
- Surface water samples were collected from four locations:
    - Halfmoon Branch at the intersection with Main Highway (US Highway 301);
    - Lemon Creek at the intersection with Main Highway (US Highway 301);
    - Lemon Creek at the intersection with Broxton Bridge Road (US Highway 601); and
    - Lemon Creek at the intersection with the power line right-of-way.
- A composite sample was collected 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.

In addition, groundwater samples were collected from 10 residential wells in conjunction with this event (**Figure 4**). Residential well sampling activities and results are presented in a separate technical memorandum, which has been included as **Appendix A**.

The depth to water in the monitoring wells was measured using an electronic water level meter on October 19, 2020, 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 B**. Samples were collected once the parameters had stabilized in accordance with the low-flow sampling procedure in the work plan (H&H, 2013). Surface water samples were also collected with a peristaltic pump and field parameters at the time of sampling were recorded on the Field Data Logs for Surface Water / Sediment Sampling that are included in **Appendix B**.

Upon collection, all groundwater and surface water 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 B**.

All monitoring well groundwater samples and surface water samples were analyzed for VOCs by USEPA Method 8260D. The aqueous IDW sample was analyzed for VOCs by USEPA Method 8260D, SVOCs by USEPA Method 8270E, and priority pollutant metals by USEPA Methods 6010D and 7470A. Monitoring well groundwater, surface water, and aqueous IDW samples were analyzed by SGS North American, Inc., 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 C**.

4.0 RESULTS

4.1 Groundwater Flow

Water level measurements were collected on October 19, 2020 and are summarized on **Table 1** along with their corresponding groundwater elevations. Groundwater elevations measured in monitoring wells completed in the shallow aquifer zone were used to create a potentiometric map of the water-table surface (**Figure 5**). The fall 2020 water levels within the shallow aquifer zone occur between 131.60 and 137.14 feet in elevation. Shallow water level elevations are up to 3.56 feet higher than those collected during the fall 2019 groundwater monitoring event (October 2019). Compared to shallow aquifer zone water levels measured during the spring 2020 groundwater monitoring event (April 2020), October 2020 water levels range from 0.91 feet to 4.19 feet lower. These differences are likely attributable to average to above average precipitation compared to climate normal for the area in the first half of 2020 compared to the second half of 2020 and the second half of 2019 (National Oceanic and Atmospheric Administration [NOAA] National Climatic Data Center [NCDC], 2020.). Shallow flow patterns resulting from the fall 2020 water level measurements are similar to those observed previously at the Site. The equal potential lines indicate groundwater flow beneath the Facility varies between southwestward and westward flow directions, with local groundwater highs at MW-9 and beneath the Facility building at monitoring wells MW-2, MW-20 and MW-37. Groundwater levels appear depressed at MW-3 and MW-8. 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-6, MW-20 and MW-21 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 shallow 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 wells west of the facility indicate an isolated groundwater mound at MW-27, which has been observed intermittently during previous groundwater monitoring events.

Based on the October 2020 water level elevations within the deeper limestone aquifer zone, the potentiometric surface occurs between 128.48 feet and 134.07 feet in elevation (**Figure 6**). Groundwater elevations in October 2020 are as much as 1.02 feet lower than those measured during the spring 2020 groundwater monitoring event (April 2020) and as much as 1.57 feet higher than those collected during the fall 2019 groundwater monitoring event (October 2019). 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.

Vertical gradients are summarized in **Table 2**. Gradients between the shallow aquifer and deeper limestone aquifer were downward for most well pairs (e.g., MW-3/MW-3D, MW-9/MW-9D, MW-10/MW-10D, MW-14/MW14-D, MW-16/MW-16D, and MW-21/MW-21D), and ranged from 7.72E-03 feet per foot (ft/ft) at MW-16/MW-16D to 6.03E-02 ft/ft at MW-9/MW-9D. Upward gradients were evident in the vicinity of Half-Moon Branch (-5.12E-02 ft/ft at MW-15/MW-15D), indicating groundwater discharge to surface water. For the

deeper limestone aquifer / deep sandstone aquifer well pairs, the gradients ranged from a neutral gradient (no gradient) at MW-3D/MW-3D1 to a downward gradient at MW-15D/MW-15D1 (1.25E-03 ft/ft).

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 3**. The groundwater sampling logs are included in **Appendix B**. Analytical data are included in **Appendix C** and the analytical results for the monitoring wells are summarized in **Table 4**. Historical data trends for VOCs detected since the RI (AECOM, 2014) are presented in **Appendix D** and trend plots of VOCs and groundwater elevation versus time for select monitoring wells are included in **Appendix E**.

Shallow Aquifer Zone Monitoring Wells

VOCs

In the 24 groundwater samples collected from shallow aquifer zone groundwater during the fall 2020 semi-annual monitoring, six (6) VOCs (PCE, TCE, cis-1,2-DCE, 1,1,1-trichloroethane [1,1,1-TCA], 1,1-DCE, and toluene) were detected (**Table 4**). With the exception of toluene, all of the detected compounds 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 10 shallow monitoring wells (MW-1, MW-3, MW-8, MW-9, MW-10, MW-19, MW-20, MW-21, MW-24, and MW-37; **Figure 7**). The two highest concentrations of PCE were at monitoring well MW-19 (45,600 µg/L) and MW-37 (24,700 µg/L), which are in the vicinity of the Former Northern PCE Degreaser. MW-21, which is located adjacent to the Former PCE UST and has been one of the monitoring wells with the highest PCE concentrations each sampling event since the well was installed in February/March 2014, had a PCE concentration of 13,900 µg/L. Elevated but lower concentrations of PCE were detected in shallow aquifer groundwater in MW-24 (1,850 µg/L) along the western property boundary, in MW-20 (271 µg/L) located near the Former Southern PCE Degreaser, in MW-9 (443 µg/L) and MW-10 (494 µg/L) located in the wooded areas of interest, in MW-8 (355 µg/L) located in the asphalt parking lot northeast of the main Facility building, in MW-3 (119 µg/L) downgradient of the Former PCE Secondary Containment Area, and in MW-1 (103 µg/L) adjacent to the Former PCE Secondary Containment Area. PCE was not detected in any off-site, shallow monitoring wells.

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 8**). TCE concentrations were detected in seven (7) shallow monitoring wells and exceeded the MCL (5 µg/L) in four (4) groundwater samples – MW-8 (43.6 µg/L), MW-9 (116 µg/L), MW-10 (99.5 µg/L), and MW-21 (314 µg/L).

Cis-1,2-DCE was detected in seven (7) shallow monitoring wells and exceeded the MCL (70 µg/L) in two (2) monitoring wells – MW-10 (180 µg/L), and MW-21 (689 µg/L; **Figure 9**). The detections of cis-1,2-DCE in the shallow aquifer correspond to “hot-spots” of PCE and TCE.

1,1-DCE was detected above its MCL (7 µg/L) in two monitoring wells, MW-10 (9.4 µg/L) and MW-37 (95.2 J [estimated] µg/L). 1,1,1-TCA was detected above its MCL (200 µg/L) in monitoring well MW-19 at an estimated concentration of 263 J µg/L.

There were no detections of COCs in groundwater samples collected from off-Site wells screened in the shallow aquifer zone. Based on the current (October 2020) and recent (April 2020) data, the nature and extent of COCs has been delineated in the shallow aquifer beneath the Site.

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 B**. Indicator parameters are also presented in **Table 3**. 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 (USEPA, 1998). Based on this information, dissolved oxygen is in the favorable range for the reductive pathway in four (4) shallow monitoring wells sampled in October 2020 (i.e., MW-10, MW-11, MW-16 and MW-21) and not tolerated in three (3) shallow monitoring wells (MW-5, MW-7, and MW-27). ORP is not favorable except at MW-10, MW-15, and MW-16. The pH was in the favorable range for nine (9) of the 24 shallow monitoring wells sampled: MW-2, MW-5, MW-7, MW-11, MW-14, MW-17, MW-21, MW-24, and MW-28. 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.)	4.04	6.69	4.84	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.18	6.16	2.28	<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)	-23.2	457.3	267.7	<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).

Data Trends

As shown in the table of historical VOC results (**Appendix D**) and the trend plots (**Appendix E**), 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 to the current concentration of 103 µg/L. The PCE concentrations in MW-9 and MW-10 have decreased from maximums of 7,500 µg/L and 5,800 µg/L, respectively, at the time of their installation in December 2003. Since December 2003, the concentration in MW-9 has been decreasing, with a low of 194 µg/L in October 2019 and a current PCE concentration of 443 µg/L. In MW-10, the PCE has decreased from 5,800 in December 2013 to 41.4 µg/L in October 2016; the current PCE concentration is 494 µg/L. Similarly, the PCE concentration in MW-5 has decreased from a high of 345 µg/L in March 2005 and has been below the MCL for the last five monitoring events. The current PCE concentration in MW-5 is 0.89 J (estimated) 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 J 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 (119 µg/L) is within the range of recent results. In addition, PCE concentrations in MW-8 decreased from a historic high (491 µg/L) in May 2012 to 7.8 µg/L in April 2016. PCE concentrations in MW-8 have been increasing since then, and the current concentration of 355 µg/L is the highest since May 2012. The October 2020 TCE concentration for MW-8 (43.6 µg/L) is a record high value for this well.

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 PCE concentration of MW-19 decreased to 18,700 µg/L in May 2018 but then increased to 45,600 µg/L in October 2020, representing the record high for this monitoring well. The detected PCE concentration in down-gradient well MW-24, located on the western edge of the property, was on an increasing trend from 344 µg/L in December 2015 to 2,290 µg/L in April 2019. The current PCE concentration in MW-24 is 1,850 µg/L. The elevated concentrations observed in MW-24 since April 2017 are likely a result mass migrating from the hot-spot near MW-19. Other wells, such MW-20, which is located near the southern-most Former PCE Degreaser and had a concentration of 271 µg/L in October 2020, 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 decreased to 181 µg/L during the October 2016 event. The October 2016 PCE concentration appears to be anomalously low, as the concentrations subsequently increased to a new high concentration of 25,600 µg/L in May 2018 before decreasing to 13,900 µg/L in October 2020. TCE concentration in MW-21 have also increased from a low of 2.3 µg/L in October 2016 to a high of 403 µg/L in October 2019; the current TCE concentration is 314 µg/L.

Deeper Limestone Aquifer Zone Monitoring Wells

VOCs

Twenty (20) groundwater samples were collected from the deeper limestone aquifer zone groundwater during October 2020, resulting in six (6) VOCs (PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, and toluene) that were detected (**Table 4**). Of these compounds, PCE and TCE exceeded their respective MCLs in one or more samples.

PCE was detected in 13 deeper aquifer zone groundwater samples and groundwater concentrations exceeded the MCL (5 µg/L) in 11 of these samples (MW-3D, MW-12D, MW-13D, MW-14D, MW-21D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, and MW-32DR; **Figure 10**). 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 (347 µg/L at MW-3D). PCE concentrations exceeded the MCL (5 µg/L) in on-site down-gradient monitoring wells MW-12D (47.3 µg/L),

MW-13D (139 µg/L), and MW-21D (9.8 µg/L) and in off-Site down-gradient monitoring wells MW-14D (53.1 µg/L), MW-22D (87.5 µg/L), MW-25D (124 µg/L), MW-26D (69.3 µg/L), MW-30D (80.2 µg/L), MW-31D (144 µg/L), and MW-32DR (26.3 µg/L).

TCE concentrations were detected in five (5) samples from the deeper aquifer zone in fall 2020. All of the detected concentrations were below the MCL of (5 µg/L), except for one sample in on-Site well MW-3D (5.3 µg/L) (**Figure 11**). TCE was also detected in off-Site down-gradient wells MW-25D, MW-26D, MW-30D, and MW-32DR, but at low concentrations below the MCL.

Cis-1,2-DCE was detected in five (5) samples from deeper limestone aquifer zone groundwater during the fall 2020 monitoring event (MW-3D, MW-14D, MW-25D, MW-26D, and MW-30D). None of the detected concentrations exceeded the MCL for cis-1,2-DCE (70 µg/L; **Table 4**).

The groundwater contaminant plume in the deeper limestone aquifer is limited to PCE with one small area at MW-3D where the TCE concentration exceeds its MCL. The concentrations of all other constituents are either below their respective MCLs or not detected. Based on current and recent data (AECOM, February 2020; June 2020), the nature and extent of COCs has been delineated in the deeper limestone aquifer.

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 B**. Indicator parameters are also presented in **Table 3** and select 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 are optimal in all deeper aquifer monitoring wells except MW-12D and MW-34D. Dissolved oxygen values are tolerated in deeper aquifer monitoring well MW-9D, MW-14D, MW-21D, MW-33D, MW-34D, and MW-36D. ORP values measured in October 2020 are favorable in deeper aquifer monitoring wells MW-3D, MW-9D, MW-12D, and MW-14D and optimal in MW-36D. Observed elevated ORP levels and the lack of dissolved oxygen levels in the favorable range, may inhibit natural degradation of chlorinated VOCs.

Analysis	Minimum	Maximum	Average	Optimal Range for Anaerobic Biodegradation Processes*
pH (S.U.)	7.03	10.99	7.83	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.17	4.20	2.06	<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)	-131.6	326.9	140.7	<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).

Data Trends

As with the shallow aquifer zone, the historical VOC results (**Appendix D**) and trend plots (**Appendix E**) for deeper groundwater show that the VOC concentrations in many wells have decreased with time from

their highest values. For instance, PCE concentrations in MW-12D have decreased from a maximum of 451 µg/L detected in April 2010 to a low concentration of 12 µg/L in May 2011. Since then, PCE concentrations have fluctuated between 20.8 µg/L in November 2011 to 140 µg/L in April 2016, with a current concentration of 47.3 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 298 µg/L in October 2016. Since then, the PCE concentration in MW-13D has decreased and the current concentration (139 µg/L) in within the range of recent concentrations. 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.

Some of the deep monitoring wells on-site have exhibited more varied PCE concentrations. For instance, the PCE concentration in MW-3D has decreased from a maximum of 764 µg/L detected in April 2010 to values between approximately 200 µg/L and 400 µg/L from March 2014 to April 2020. The October 2020 concentration, 347 µg/L, is within the recent range for this well. PCE concentrations in MW-21D have decreased from 283 µg/L in March 2014 to 72.9 µg/L in October 2017. The concentration then increased to 357 µg/L in October 2018 before decreasing to 9.6 µg/L in April 2020. The current PCE concentration in MW-21D is 9.8 µg/L.

After the initial sampling of down-gradient well MW-14D, concentrations have remained fairly consistent throughout the monitoring period, between approximately 50 µg/L and 90 µg/. The current concentration is 53.1 µg/L. In other down-gradient monitoring wells, such as MW-22D and MW-25D, PCE concentrations have remained fairly consistent since the wells were installed. Other wells exhibited relatively consistent PCE values until a decline during a recent sampling event (e.g., MW-26D in April 2020) or were increasing until a recent decline in PCE values (e.g., MW-30D and MW-31D).

VOC concentrations in some deeper aquifer wells exhibit trends that correspond to water level fluctuations, such as with MW-13D (**Appendix E**). 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 many 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.

Deep Sandstone Aquifer Zone Monitoring Wells

Two (2) groundwater samples (MW-3D1 and MW-15D1) were collected from deep sandstone aquifer zone groundwater during the October 2020 event (**Table 4**). As with previous sample results for these wells (Appendix D), no VOCs were detected in the deep sandstone aquifer samples.

4.3 Surface Water Quality

Four surface water samples were collected in October 2020 (**Figure 12**) for analysis of VOCs as requested by SCDHEC and discussed in **Section 2.1**. PCE was detected at a low, estimated concentration in one sample from SW-01-LC (2.9 J µg/L), collected downgradient of the PCE plume at the intersection of Lemon

Creek with Hwy 601. The detected concentration of PCE was less than the MCL for PCE (5 µg/L) and was below the SCDHEC Water Classification Standards for PCE based on consumption of an organism only (3.3 µg/L; SCDHEC, June 2014). Cis-1,2-Dichloroethylene was detected at an estimated concentration below the MCL (70 µg/L) at SW-01-LC (0.44J µg/L). No other VOCs were detected in surface water samples in October 2020 (**Table 5**).

The lack of detections in upgradient portions of the creeks (i.e., in surface water samples SW-03-HMB, SW-02-LC, and SW-04-TLC) coupled with the low detection in the downgradient portion of Lemon Creek (SW-01-LC), indicates that deeper aquifer groundwater impacted with PCE concentrations is mixing with shallow aquifer groundwater and discharging to Lemon Creek. This is consistent with the site conceptual model presented in the *Deep Groundwater Delineation Technical Memorandum* (AECOM, June 2020), which was approved by SCHDEC in correspondence dated June 23, 2020.

4.4 Investigation Derived Waste

Two drums of purge and decontamination water was generated as IDW during the semi-annual sampling activities. One composite IDW water sample was collected from the drums for analysis of VOCs by USEPA Method 8260D, SVOCs by USEPA Method 8270E, and metals by USEPA Methods 6010D and 7470A. 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 6 and show that the IDW is non-hazardous. 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 managed the transport and disposal of IDW generated during the semi-annual monitoring event.

4.5 Quality Assurance / Quality Control

The analytical data (**Appendix C**) 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 7** and data qualifiers added to the analytical data as a result of the validation process are defined in the analytical data tables (**Tables 4, 5 and 6**). The data assessment reports (DARs; **Appendix C**) explain data qualifiers added to the sample results as a result of the validation process.

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 SGS North America, Inc., located in Orlando, Florida.

The validation of the analytical data from this event did not result in the rejection of any data. Therefore, the data associated with this laboratory batch should be considered compliant and adequate for its intended use.

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 7. During the validation process, results from sample MW-22D-a were qualified "/M/D" due to the relative percent difference (RPD) between the matrix spike and matrix spike duplicate exceeding the established criteria of 35%. These qualifiers indicate imprecision with laboratory methodology, instrumentation, or matrix interference. No other qualifiers were added to the data as a result of the RPD between the primary and field duplicate samples.

Trip Blanks

Trip blank samples 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 7**. No flags were added to primary samples in **Table 4** 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 C**; however, these results were not tabulated as the information only pertains to the primary sample with which the MS/MSD is associated. In sample MW-8, results of methyl bromide were qualified "/M/m" due to recovery in the associated matrix spike sample below the established criteria of 40-160% (37%). These qualifiers indicate the results should be considered biased low. No other qualifiers were added as a result of the evaluation of MS/MSD samples from this event.

5.0 SAMPLING PROGRAM OPTIMIZATION

The existing groundwater sampling data collected since the RI (i.e., data collected March 2014 through October 2020) were evaluated to provide recommendations for sampling program optimization. The data were evaluated using Monitoring and Remediation Optimization System (MAROS) software (Version 3.0, 2012) which is public domain software developed for the Air Force Civil Engineer Center (AFCEC) in accordance with the Air Force Center for Environmental Excellence (AFCEE) Long-Term Monitoring Optimization Guide (AFCEE, 1997). The program is database driven and can be used for both groundwater trend analysis and long-term monitoring optimization. Furthermore, MAROS is a recommended tool for monitoring well network evaluation and optimization cited in government agency guidance documents, including *Roadmap to Long-Term Monitoring Optimization* (USEPA, May 2005), and is included in the Federal Remediation Technologies Roundtable Decision Support Tool (http://www.frtr.gov/decisionsupport/FunctionalGroups/lt_monitoring_optimization.htm).

For the purpose of this evaluation, MAROS was used to statistically evaluate the trend in concentrations of PCE at individual monitoring wells and the stability of the PCE plume in each aquifer unit. PCE trend and plume stability data were then used by the program to calculate a recommended sampling frequency for each well. MAROS uses Cost Effective Sampling (CES) methodology to provide recommendations for sampling frequency of wells. The guiding principle for the CES method is that sampling frequency should be based on the rate of change of COCs at a location rather than the well's location within the network.

Details of the MAROS evaluation are included in **Appendix F** and the sampling frequency recommendations from MAROS are included in **Tables F-9 and F-10** for the shallow and deeper limestone aquifers, respectively.

The sampling frequency recommendations provided by MAROS were reviewed with consideration given to the location of wells within the network and additional data needs for ongoing evaluations for source area remediation. The MAROS recommendations were adjusted using the following rationale:

- MAROS uses a default minimum frequency of quarterly sampling. While this can be useful during site characterization or for sites with fast-moving plumes, the program documentation acknowledges that this can be excessive for slower-moving or stable plumes (AFCEC, 2012). Monitoring wells assigned a quarterly frequency by MAROS were recommended for semi-annual sampling.
- Biennial sampling frequency recommendation from MAROS was retained for wells where PCE has not been detected since March 2014 (e.g., MW-15, MW-16, and MW-17), and wells that have decreasing trends and are not needed to define the plume extents or hot-spots (e.g., MW-29).
- Well assigned biennial sampling frequency by MAROS that are needed to define plume extents and have stable or decreasing trends were recommended for annual sampling (e.g., MW-14, MW-27, and MW-22D).
- Wells adjacent to and immediately downgradient from former source areas (e.g., MW-19, MW-20, and MW-21), and wells with trend analysis results of increasing, potentially increasing or no trend were recommended for semi-annual sampling (e.g., MW-8 and MW-10D).

- Wells on the leading edge of the plume and wells that would provide early indication of increasing trends in the downgradient portion of the plume were recommended for semi-annual sampling (e.g., MW-3, MW-24, MW-12D, MW-30D, and MW-35D).

The recommended sampling frequencies and proposed sampling schedule for 2021 and 2022 are summarized on **Table 9**.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are submitted based on the evaluation of the fall 2020 semi-annual monitoring results and a limited comparison to previous sampling results:

- Shallow water levels in October 2020 were up to 4.19 ft lower than those collected during the spring 2020 groundwater monitoring event (April 2020) and as much as 3.56 feet higher than those measured during the fall 2019 groundwater monitoring event (October 2019). In the deeper limestone aquifer, groundwater elevations in October 2020 are up to 1.02 feet lower than those measured during the spring 2020 groundwater monitoring event (April 2020) and range from 0.69 to 1.57 feet higher than those collected during the fall 2019 groundwater monitoring event (October 2019). 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 2020 and fall 2019 monitoring events and previous investigations.
- Concentrations of VOCs in the main plume in the shallow aquifer are delineated on-Site and bounded by non-detect values of PCE in downgradient off-Site wells MW-27 and MW-28 (**Figure 7**). There were no COCs detected in October 2020 in off-Site monitoring wells screened in the shallow aquifer unit.
- Concentrations of VOCs are delineated in deeper limestone aquifer groundwater. PCE is the only VOC detected above its MCL off-site in deeper aquifer groundwater. As illustrated on **Figure 10**, PCE occurs in groundwater at concentrations above the MCL to the south / southwest of the site at monitoring well locations MW-14D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D and MW-32DR. The occurrence of PCE at these well locations is consistent with the inferred groundwater flow direction. These PCE concentrations have been delineated to below the MCL with the addition of the monitoring wells (i.e., MW-33D, MW-34D, MW-35D, and MW-36D; **Figure 10**) installed as part of the November 2019 Limestone Aquifer Assessment.
- Results of surface water analytical samples were non-detect for VOCs with the exception of PCE (2.9 µg/L) and cis-1,2-DCE (0.44 J, estimated, µg/L) in surface water sample SW-01-LC. The surface water concentrations indicate deeper aquifer groundwater impacted with PCE concentrations is mixing with shallow aquifer groundwater and discharging to Lemon Creek, which is consistent with the conceptual site model (AECOM, June 2020). The detected concentration of PCE was less than the MCL for PCE (5 µg/L) and was below both the SCDHEC Water Classification Standards for PCE based on consumption of an organism only (3.3 µg/L; SCDHEC, June 2014).

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-9, MW-14D, MW-19 MW-21, 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 in hot-spots beneath the building footprint (i.e., in the vicinity of the Former PCE Degreasers).

In accordance with the monitoring requirement of the VCC, the next semi-annual sampling event is scheduled to occur in April 2021. Upon SCDHEC concurrence, groundwater and surface water monitoring will be conducted in accordance with the proposed sampling plan included in **Table 9**.

The 11 residential wells where GAC treatment has been installed will be sampled to monitor that the GAC units continue to perform as expected. The wells are proposed to be sampled annually, concurrent with the fall semi-annual monitoring events in 2021 and 2022 (**Table 10**). Residential well samples will be collected both pre- and post-treatment.

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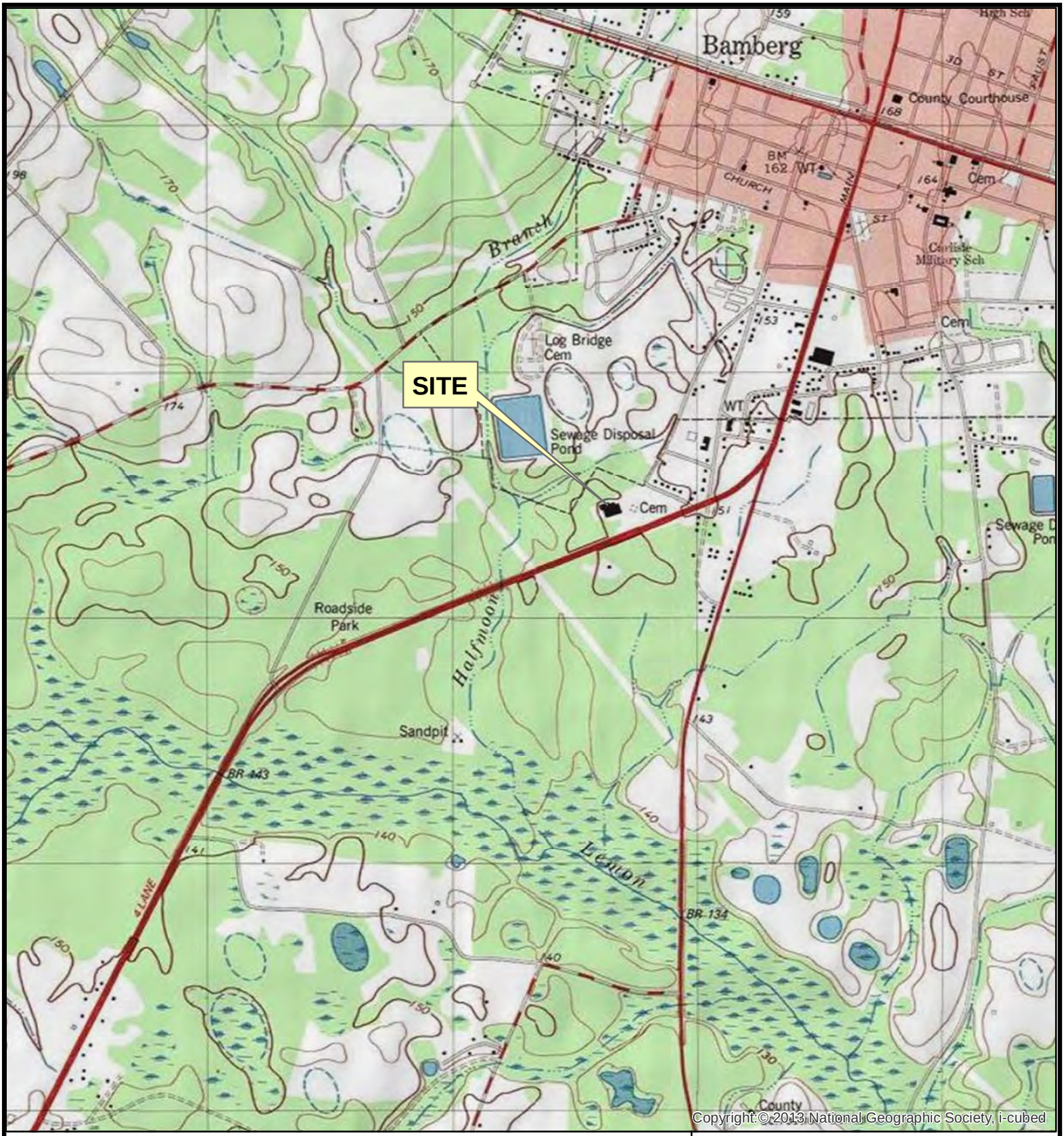
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FIGURES



N

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)

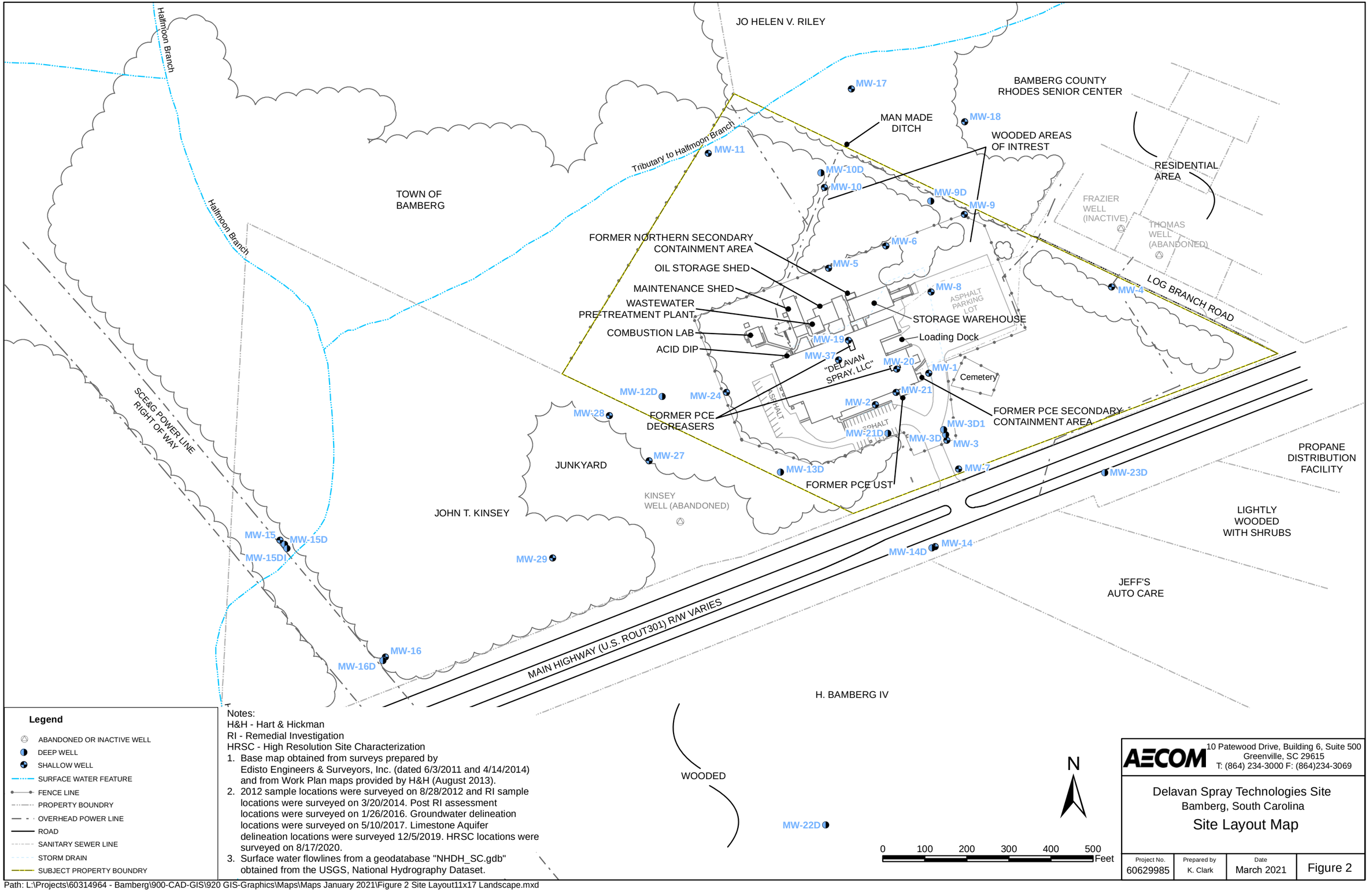
AECOM
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Delavan Spray Technologies Site
Bamberg, South Carolina

Site Location Map

Project No.	Prepared by	Date	
60629985	KCG	March 2021	Figure 1

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 1 Site Location Map.mxd



Legend

- ABANDONED OR INACTIVE WELL
- DEEP WELL
- SHALLOW WELL
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN
- SUBJECT PROPERTY BOUNDRY

Notes:
H&H - Hart & Hickman
RI - Remedial Investigation
HRSC - High Resolution Site Characterization

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. (dated 6/3/2011 and 4/14/2014) and from Work Plan maps provided by H&H (August 2013).
2. 2012 sample locations were surveyed on 8/28/2012 and RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed on 5/10/2017. Limestone Aquifer delineation locations were surveyed 12/5/2019. HRSC locations were surveyed on 8/17/2020.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

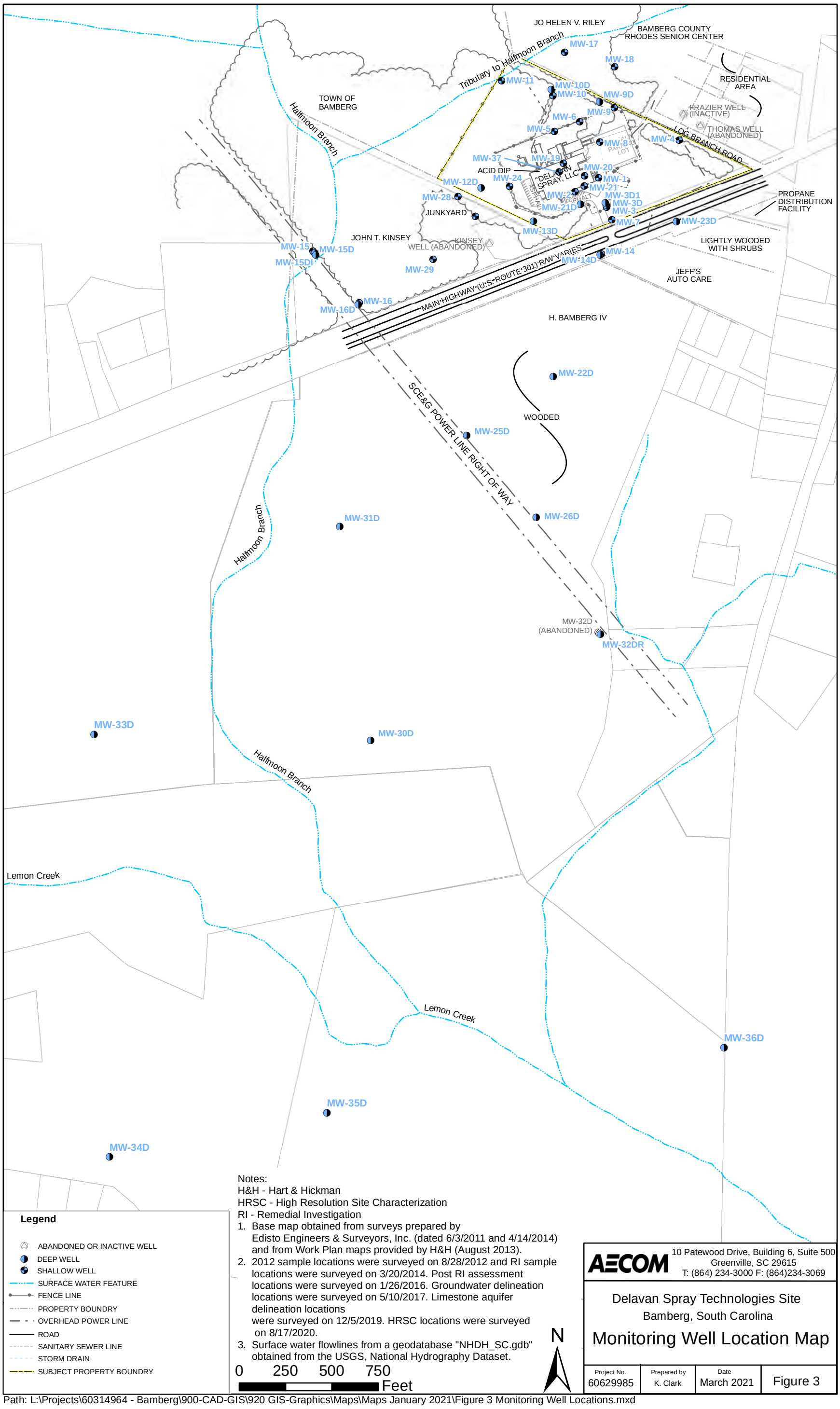
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Delavan Spray Technologies Site
Bamberg, South Carolina

Site Layout Map

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 2

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Legend

- ABANDONED OR INACTIVE WELL
- DEEP WELL
- SHALLOW WELL
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN
- SUBJECT PROPERTY BOUNDRY

Notes:
H&H - Hart & Hickman
HRSC - High Resolution Site Characterization
RI - Remedial Investigation

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. (dated 6/3/2011 and 4/14/2014) and from Work Plan maps provided by H&H (August 2013).
2. 2012 sample locations were surveyed on 8/28/2012 and RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed on 5/10/2017. Limestone aquifer delineation locations were surveyed on 12/5/2019. HRSC locations were surveyed on 8/17/2020.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

0 250 500 750 Feet

N

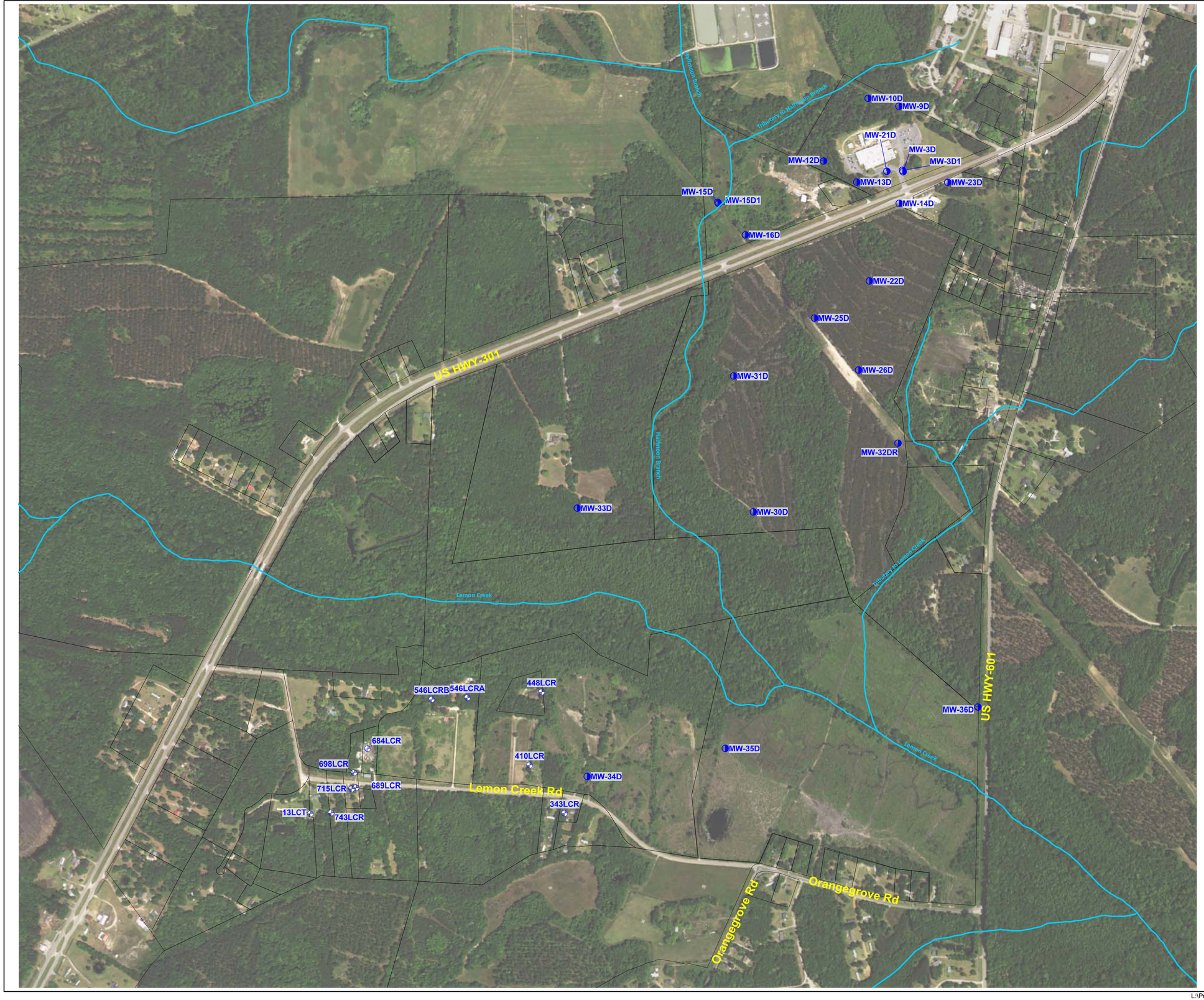
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Delavan Spray Technologies Site
Bamberg, South Carolina

Monitoring Well Location Map

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 3

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 3 Monitoring Well Locations.mxd



LEGEND

438BBR	Well Sample ID
	Residential Well Sample Location
	Deep Monitoring Well
	Property Boundary
	Surface Water

Notes:
1) Location 698 LCR was not sampled in October 2020 because there is no power to the pump at this location.
2) Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
3) Imagery obtained from the USGS, The Nation map orthoimagery https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map.

N

0 400 800
FEET

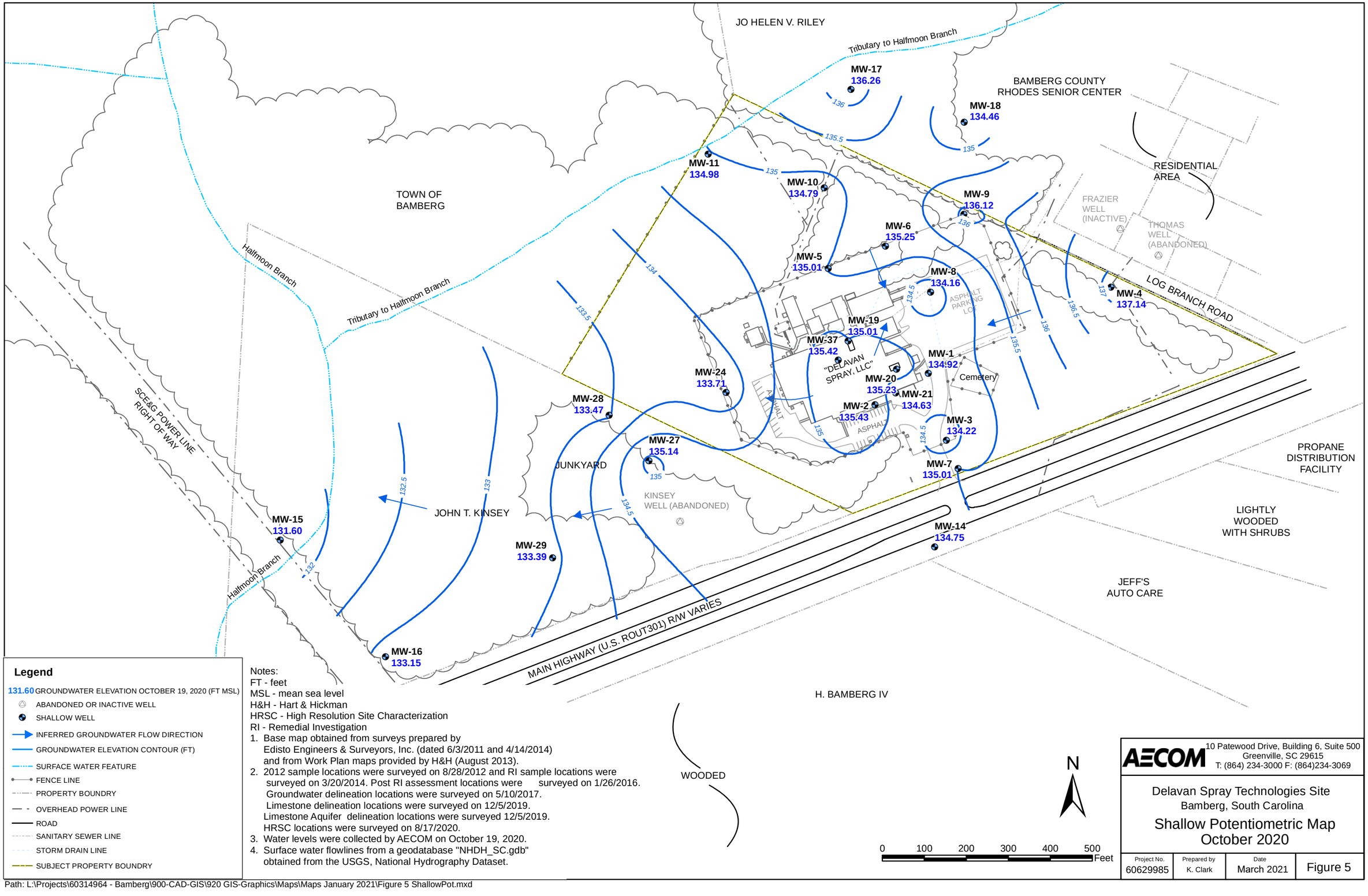
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Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

Project No.	Prepared by	Date	
60629985	L. Alexander	March 2021	**Figure 4**

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2020 Plume maps\Residential Properties Samples PCE October 2020.srf



Legend

- 131.60 GROUNDWATER ELEVATION OCTOBER 19, 2020 (FT MSL)
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (FT)
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
FT - feet
MSL - mean sea level
H&H - Hart & Hickman
HRSC - High Resolution Site Characterization
RI - Remedial Investigation

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. (dated 6/3/2011 and 4/14/2014) and from Work Plan maps provided by H&H (August 2013).
2. 2012 sample locations were surveyed on 8/28/2012 and RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed on 5/10/2017. Limestone delineation locations were surveyed on 12/5/2019. Limestone Aquifer delineation locations were surveyed 12/5/2019. HRSC locations were surveyed on 8/17/2020.
3. Water levels were collected by AECOM on October 19, 2020.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

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Delavan Spray Technologies Site
Bamberg, South Carolina

Shallow Potentiometric Map October 2020

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 5

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 5 ShallowPot.mxd

JO HELEN V. RILEY
BAMBERG COUNTY RHODES SENIOR CENTER
MAN MADE DITCH
RESIDENTIAL AREA
TOWN OF BAMBERG
MW-10D 133.83
MW-9D 134.07
FRAZIER WELL (INACTIVE)
THOMAS WELL (ABANDONED)
Halfmoon Branch
Tributary to Halfmoon Branch
134
133.75
ASPHALT PARKING LOT
LOG BRANCH ROAD
"DELAVAN SPRAY, LLC"
MW-12D 133.51
Cemetery
MW-3D 133.53
ASPHALT
MW-13D 133.38
MW-21D 133.57
MW-3D1 133.53
MW-23D 133.63
PROPANE DISTRIBUTION FACILITY
JUNKYARD
KINSEY WELL (ABANDONED)
LIGHTLY WOODED WITH SHRUBS
MW-15D 133.06
133.25
MW-14D 133.40
133.5
JOHN T. KINSEY
MW-15D1 133.01
JEFF'S AUTO CARE
MW-16D 132.93
MAIN HIGHWAY (U.S. ROUTE 301) R/W VARIES
H. BAMBERG IV
MW-22D 133.26
WOODED
MW-25D 133.13
133
SCE&G POWER LINE RIGHT-OF-WAY
MW-26D 133.01
MW-31D 132.23
Halfmoon Branch
132.75
132.5
132
132.25
MW-32D (ABANDONED)
MW-32DR 131.84
131.75
131.5
131.25
MW-33D 131.73
MW-30D 131.01
131
130.75
Halfmoon Branch
130.5
130.25
130
129.75
129.5
129.25
129
128.75
Lemon Creek
131.5
MW-36D 128.48
Lemon Creek
MW-35D 130.14
Lemon Creek
MW-34D 131.76

Legend

128.48 GROUNDWATER ELEVATION OCTOBER 19, 2020 (FT MSL)
ABANDONED OR INACTIVE WELL
DEEP WELL
INFERRED GROUNDWATER FLOW DIRECTION
GROUNDWATER ELEVATION CONTOUR (FT)
SURFACE WATER FEATURE
FENCE LINE
PROPERTY BOUNDRY
OVERHEAD POWER LINE
ROAD
SANITARY SEWER LINE
STORM DRAIN LINE
SUBJECT PROPERTY BOUNDRY

Notes:
H&H - Hart & Hickman
RI - Remedial Investigation
HRSC - High Resolution Site Characterization

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. (dated 6/3/2011 and 4/14/2014) and from Work Plan maps provided by H&H (August 2013).
2. 2012 sample locations were surveyed on 8/28/2012 and RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed on 5/10/2017. Limestone Aquifer delineation locations were surveyed 12/5/2019. HRSC locations were surveyed on 8/17/2020.
3. Water levels were collected by AECOM on 4/14/2020.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

0 250 500 750 Feet

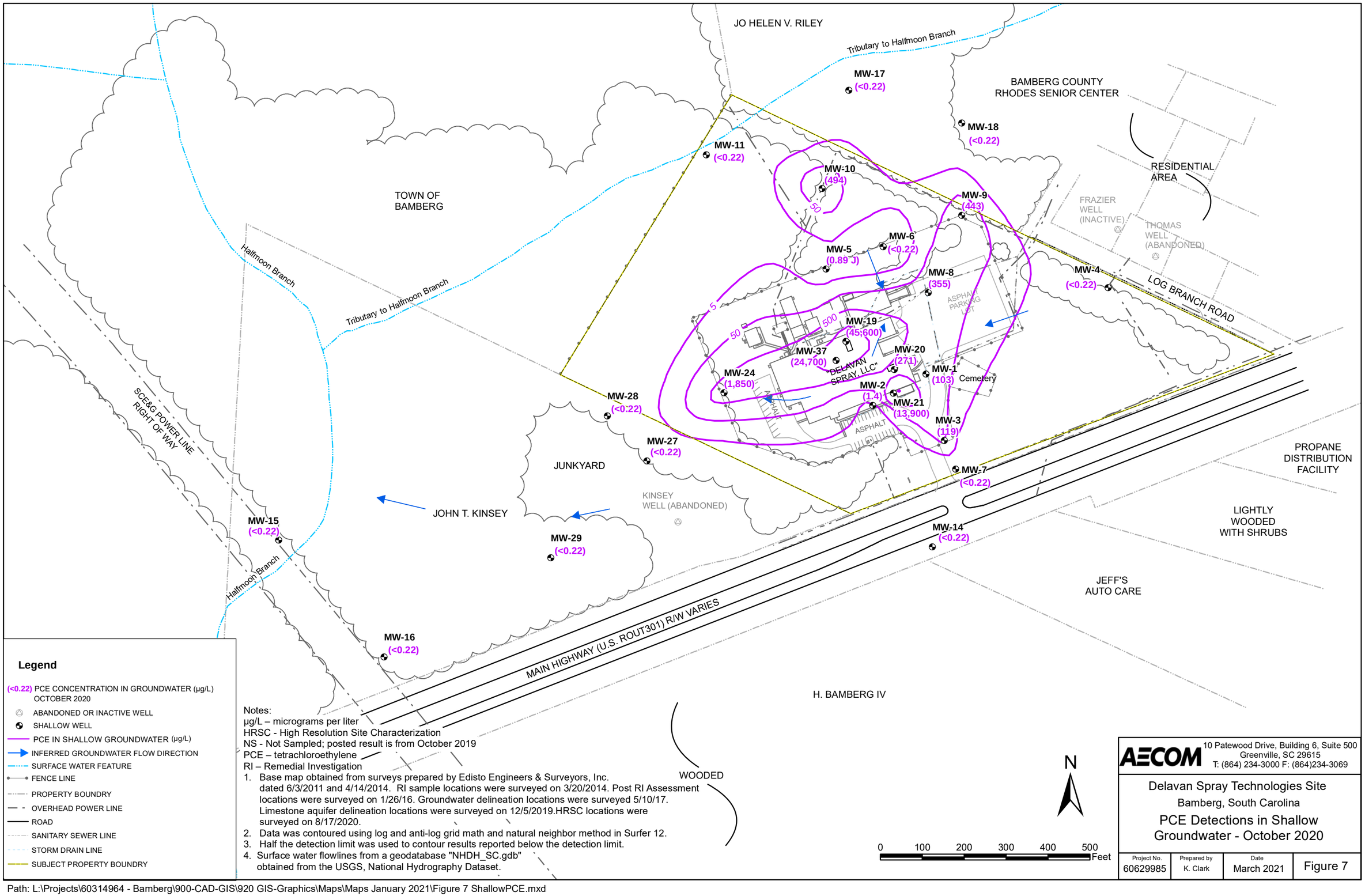
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Delavan Spray Technologies Site
Bamberg, South Carolina

Deep Potentiometric Map October 2020

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 6

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 6 Deep Pot.mxd



Legend

- (<0.22) PCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2020
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- PCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
NS - Not Sampled; posted result is from October 2019
PCE – tetrachloroethylene
RI – Remedial Investigation

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16. Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation locations were surveyed on 12/5/2019.HRSC locations were surveyed on 8/17/2020.
2. Data was contoured using log and anti-log grid math and natural neighbor method in Surfer 12.
3. Half the detection limit was used to contour results reported below the detection limit.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

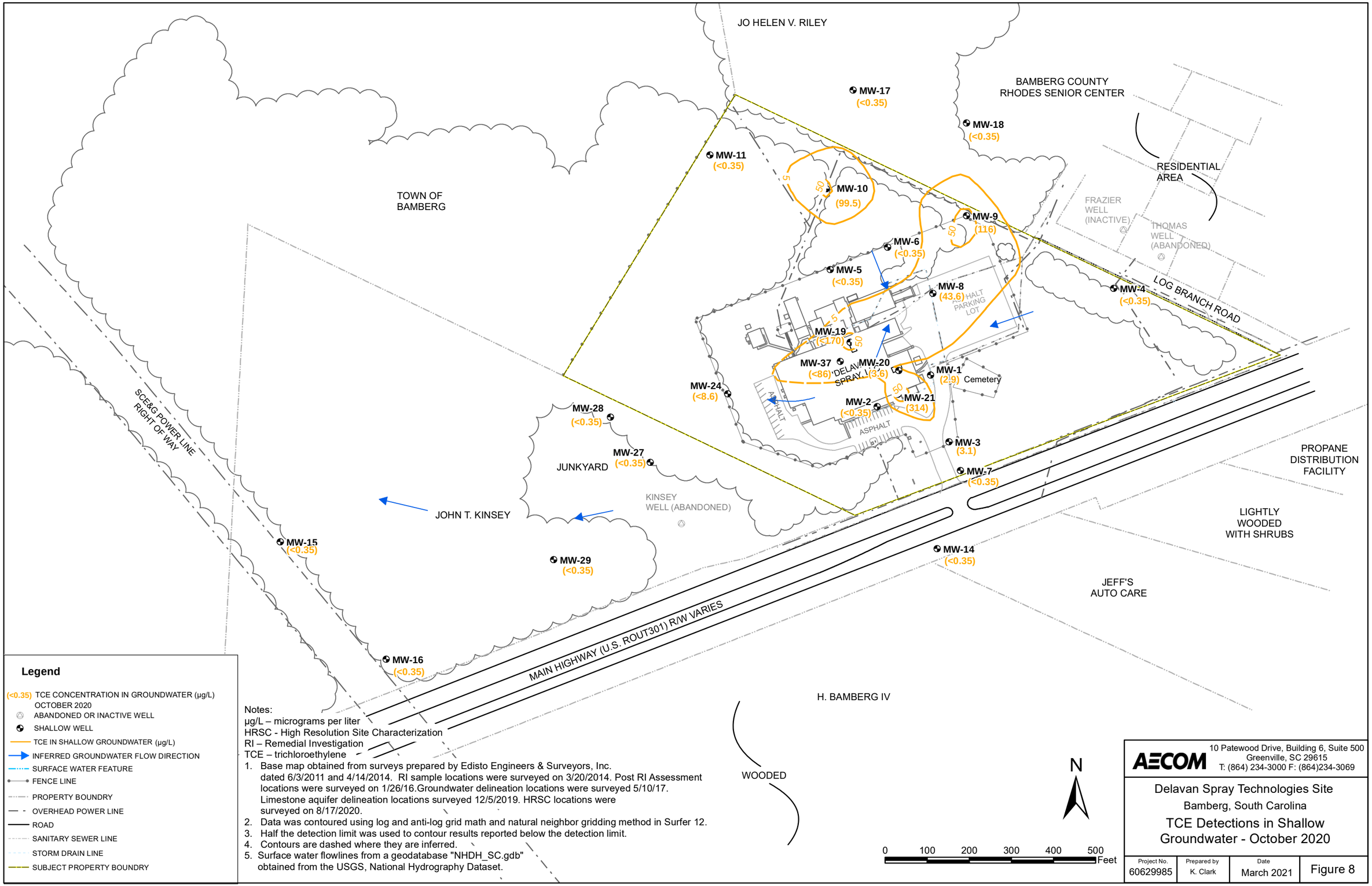
0 100 200 300 400 500 Feet

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Delavan Spray Technologies Site
Bamberg, South Carolina
PCE Detections in Shallow Groundwater - October 2020

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 7

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 7 ShallowPCE.mxd



Legend

- (<0.35) TCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2020
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- TCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
RI – Remedial Investigation
TCE – trichloroethylene

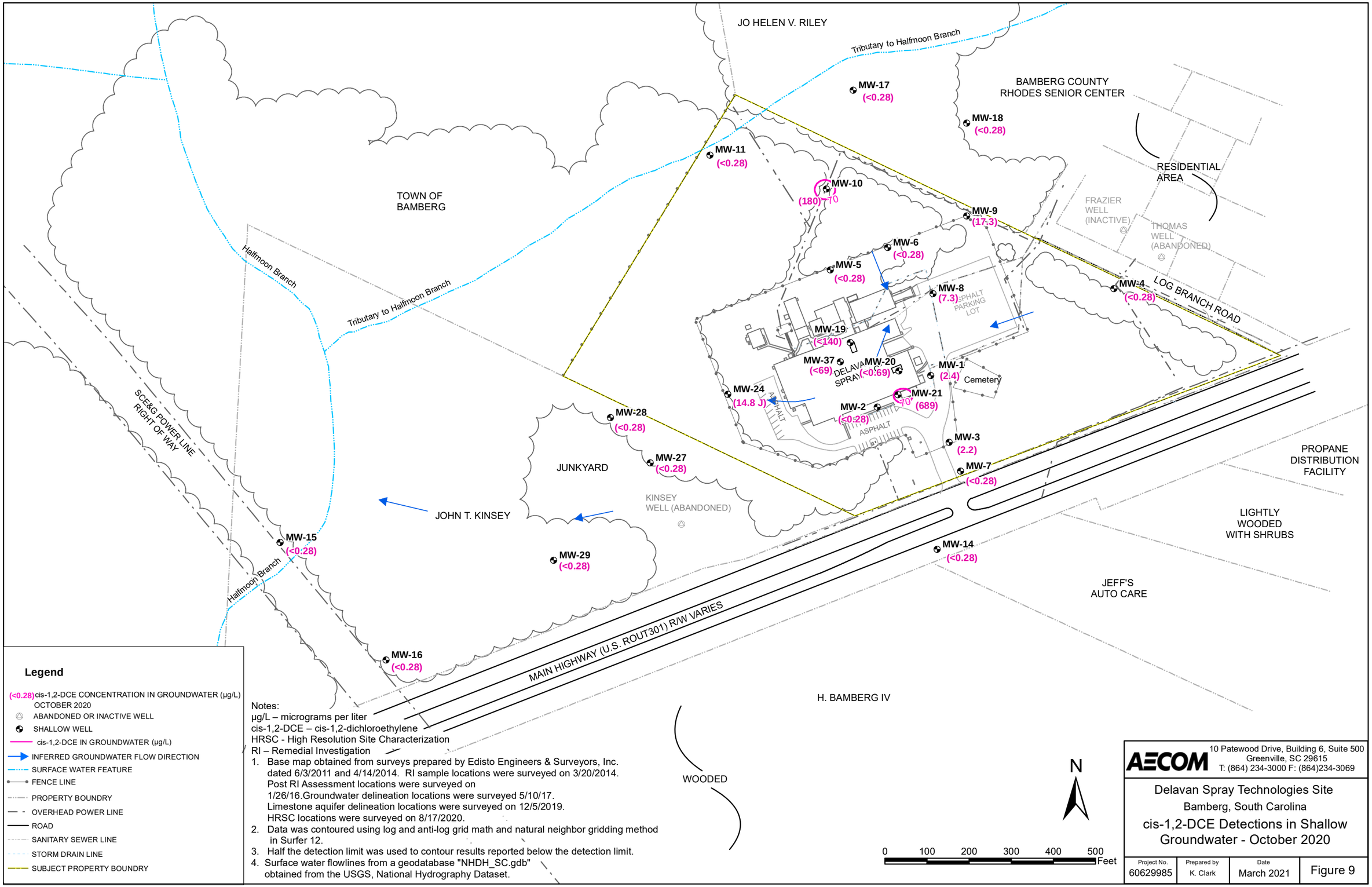
1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16.Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation locations surveyed 12/5/2019. HRSC locations were surveyed on 8/17/2020.
2. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer 12.
3. Half the detection limit was used to contour results reported below the detection limit.
4. Contours are dashed where they are inferred.
5. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

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Delavan Spray Technologies Site
Bamberg, South Carolina
TCE Detections in Shallow Groundwater - October 2020

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 8

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 8 ShallowTCE.mxd



Legend

- (<0.28) cis-1,2-DCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2020
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- cis-1,2-DCE IN GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
cis-1,2-DCE – cis-1,2-dichloroethylene
HRSC - High Resolution Site Characterization
RI – Remedial Investigation

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16.Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation locations were surveyed on 12/5/2019. HRSC locations were surveyed on 8/17/2020.
2. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer 12.
3. Half the detection limit was used to contour results reported below the detection limit.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

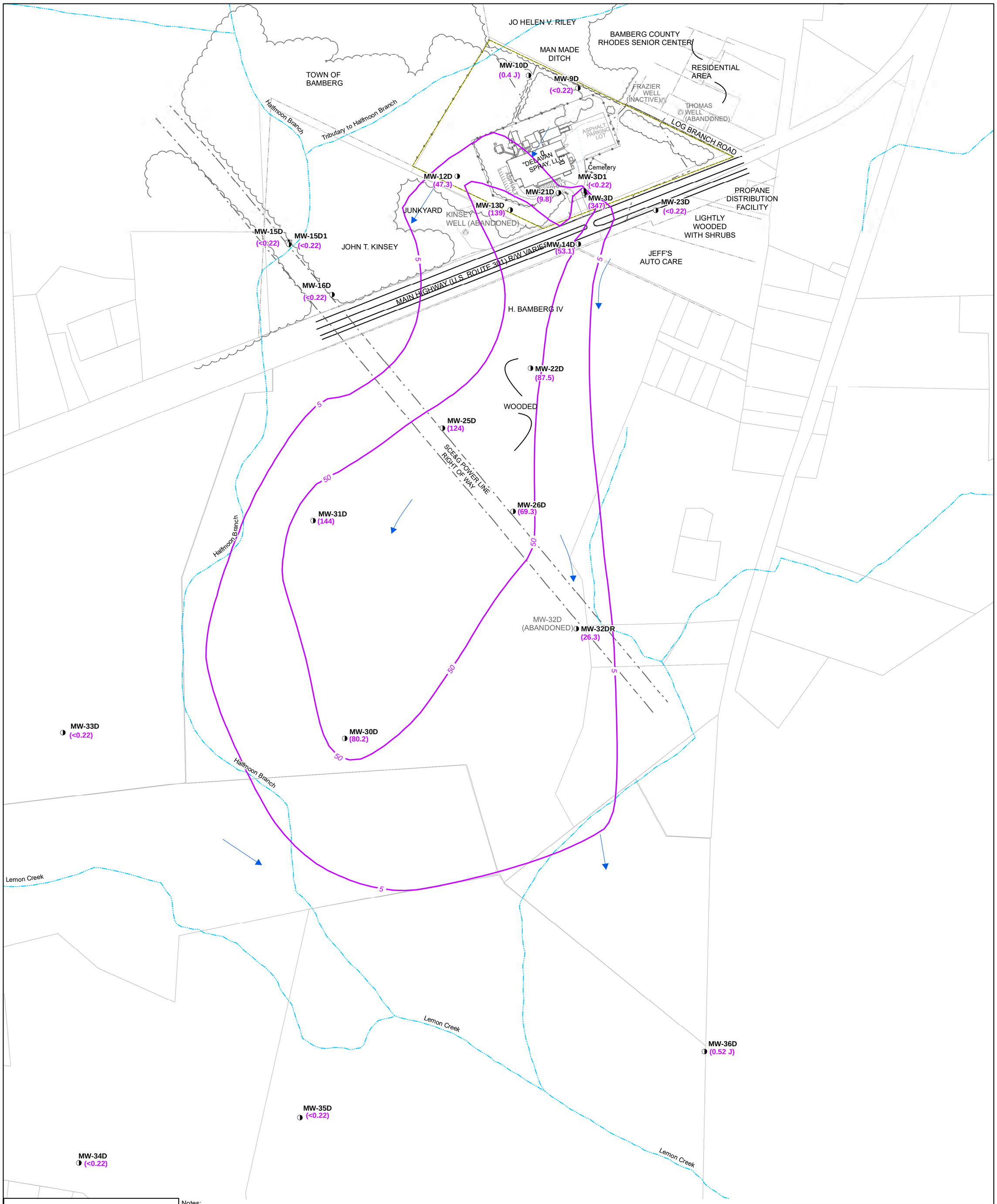
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Delavan Spray Technologies Site
Bamberg, South Carolina

cis-1,2-DCE Detections in Shallow Groundwater - October 2020

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 9

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 9 Shallow cis-1,2-DCE.mxd



Legend

- (<0.22) PCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2020
- ABANDONED OR INACTIVE WELL
- DEEP WELL
- PCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
RI - Remedial Investigation
PCE – tetrachloroethylene

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014.
   RI sample locations were surveyed on 3/20/2014.
   Post RI assessment locations were surveyed on 1/26/2016.
   Groundwater delineation locations were surveyed 5/10/17.
   Limestone aquiferdelineation locations were surveyed on 12/5/2019.
   HRSC locations were surveyed on 8/17/2020.
2. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer 12.
3. Half the detection limit was used to contour results reported below the detection limit.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

0 250 500 750 Feet

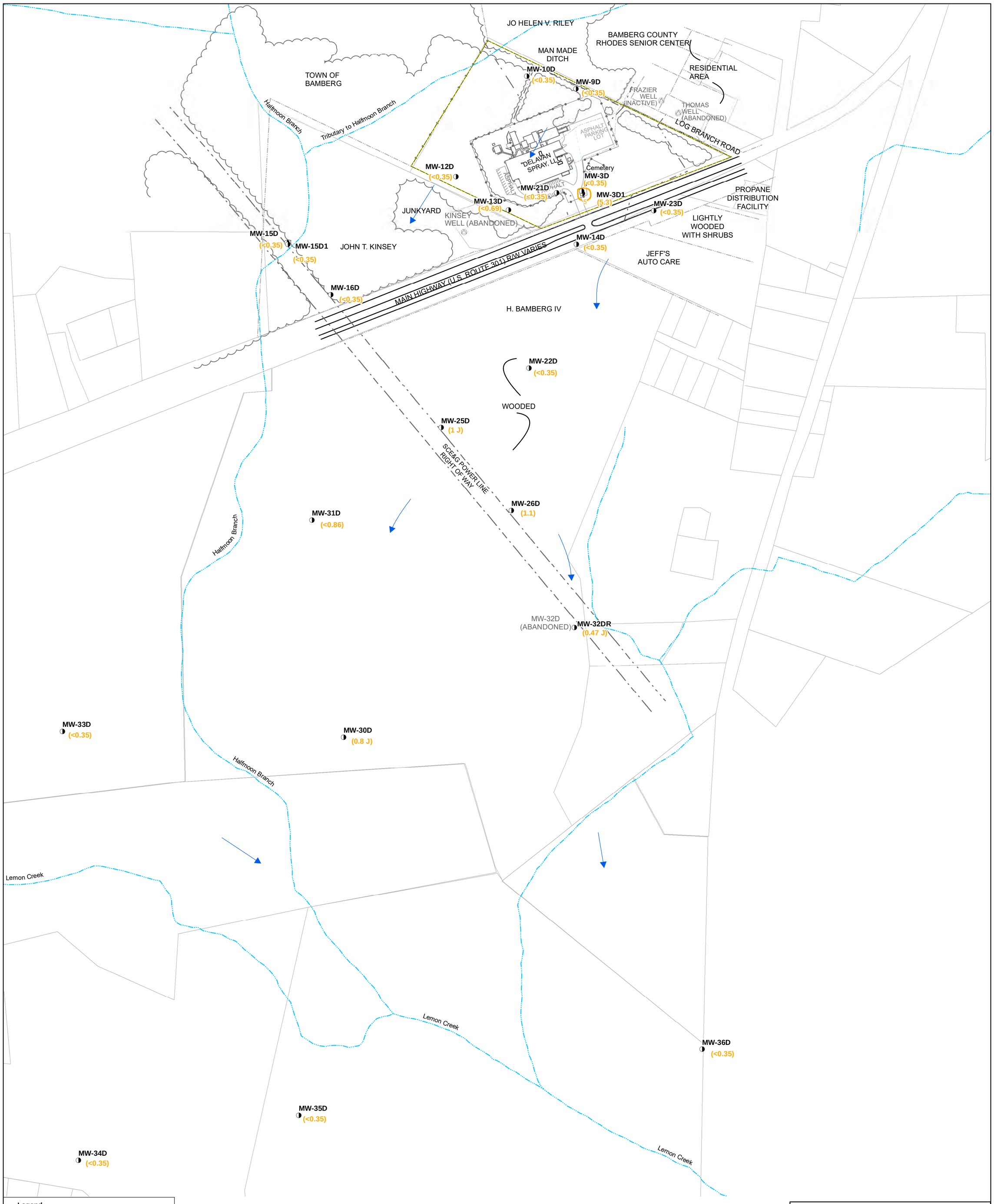
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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Deeper Groundwater - October 2020

Project No.	Prepared by	Date	
60629985	K.Clark	March 2021	Figure 10

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 10 DeepPCE.mxd



Legend

- (<0.22) TCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2020
- ABANDONED OR INACTIVE WELL
- DEEP WELL
- TCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
RI - Remedial Investigation
TCE – trichloroethylene

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation locations were surveyed on 12/5/2019. HRSC locations were surveyed on 8/17/2020.
2. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer 12.
3. Half the detection limit was used to contour results reported below the detection limit.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

0 250 500 750 Feet

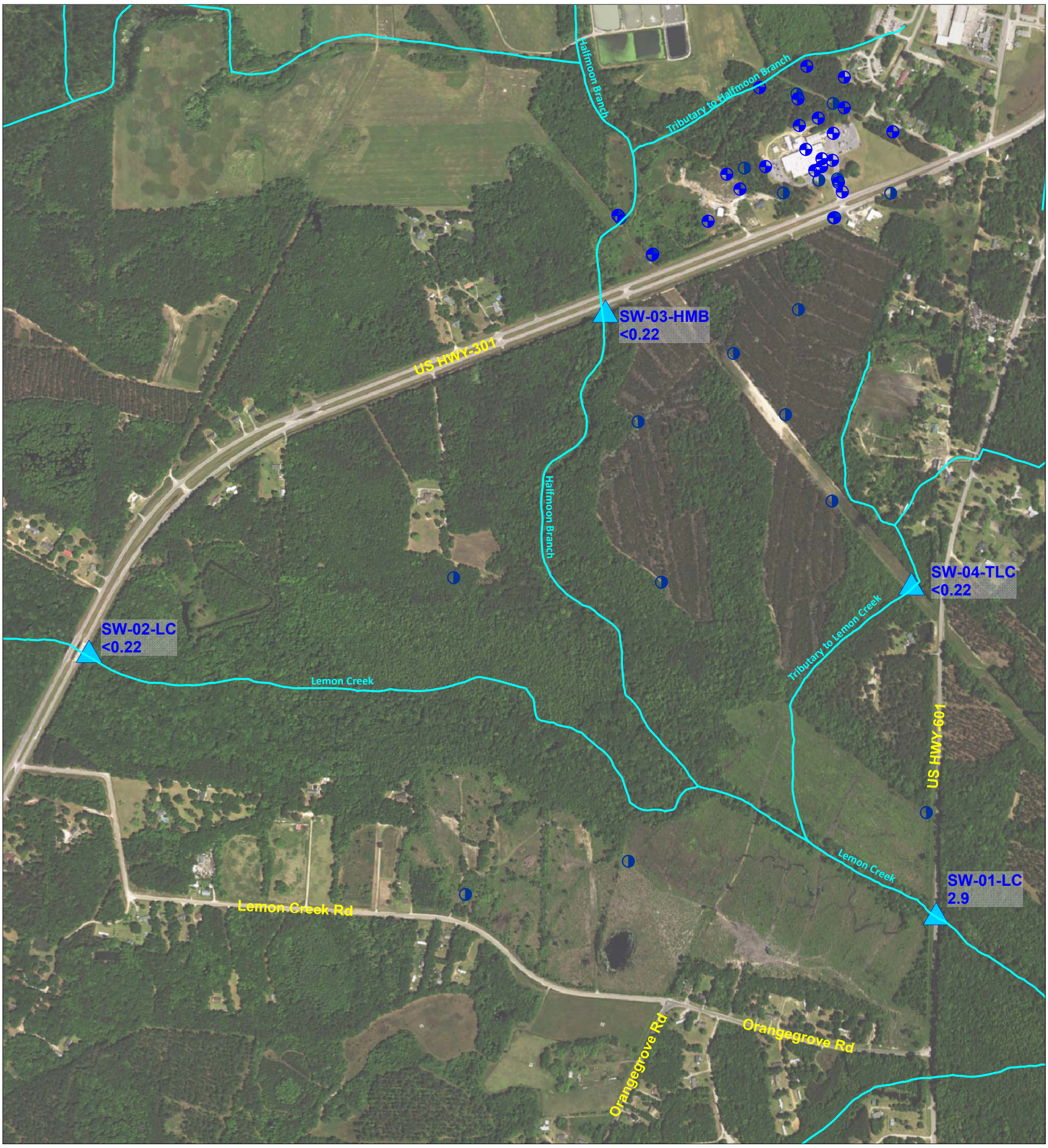
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Delavan Spray Technologies Site
Bamberg, South Carolina

TCE Detections in Deeper Groundwater - October 2020

Project No.	Prepared by	Date	
60629985	K. Clark	March 2021	Figure 11

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2021\Figure 11 DeepTCE.mxd



LEGEND

- Surface Water Sample Location
- <0.22 PCE Concentration in Surface Water - October 2020
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Surface Water

N

0 750 1500

FEET

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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Surface Water October 2020

Project No.	Prepared by	Date	
60629985	L. Alexander	March 2021	Figure 12

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2020 Plume Maps\October 2020 SW Locations and results.srf

TABLES

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

Well Number	Total Depth (ft BGS)	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
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	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
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	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
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	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
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	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 (ft bgs)	Surface Casing Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer Designation	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	10/16/2017		5/7/2018		10/29/2018		4/22/2019		10/14/2019		4/14/2020		10/19/2020	
							Depth to Water (ft btoc)	Elevation (ft msl)	Depth to Water (ft btoc)	Elevation (ft msl)	Depth to Water (ft btoc)	Elevation (ft msl)	Depth to Water (ft btoc)	Elevation (ft msl)	Depth to Water (ft btoc)	Elevation (ft msl)	Depth to Water (ft btoc)	Elevation (ft msl)	Depth to Water (ft btoc)	Elevation (ft msl)
MW-1	18	--	3-18	Shallow	147.56	147.19	13.51	133.68	12.42	134.77	12.62	134.57	11.71	135.48	13.65	133.54	11.09	136.10	12.27	134.92
MW-2	18	--	3-18	Shallow	147.81	147.63	13.82	133.81	12.42	135.21	12.39	135.24	11.15	136.48	14.07	133.56	9.69	137.94	12.20	135.43
MW-3	18	--	3-18	Shallow	148.34	148.11	14.12	133.99	13.86	134.25	14.02	134.09	13.24	134.87	14.35	133.76	12.98	135.13	13.89	134.22
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	16.16	131.96	14.93	133.19	15.25	132.87	13.91	134.21	16.05	132.07	13.65	134.47	14.59	133.53
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	15.98	131.95	14.74	133.19	15.05	132.88	13.71	134.22	15.90	132.03	13.44	134.49	14.40	133.53
MW-4	14	--	4-14	Shallow	147.30	147.03	11.49	135.54	8.57	138.46	9.53	137.50	7.07	139.96	13.15	133.88	5.98	141.05	9.89	137.14
MW-5	14	--	4-14	Shallow	145.34	145.46	12.10	133.36	8.90	136.56	10.32	135.14	7.55	137.91	12.94	132.52	6.37	139.09	10.45	135.01
MW-6	14	--	4-14	Shallow	143.45	143.22	10.02	133.20	6.69	136.53	7.89	135.33	5.03	138.19	11.10	132.12	3.78	139.44	7.97	135.25
MW-7	20	--	5-20	Shallow	149.25	149.03	14.57	134.46	14.07	134.96	14.34	134.69	13.29	135.74	14.98	134.05	13.07	135.96	14.02	135.01
MW-8	20	--	5-20	Shallow	145.95	145.66	13.16	132.50	11.68	133.98	12.05	133.61	10.81	134.85	13.19	132.47	10.31	135.35	11.50	134.16
MW-9	20	--	5-20	Shallow	144.11	143.89	10.11	133.78	6.89	137.00	7.33	136.56	5.32	138.57	6.91	136.98	5.13	138.76	7.77	136.12
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	11.73	132.47	10.41	133.79	10.77	133.43	9.39	134.81	11.70	132.50	9.11	135.09	10.13	134.07
MW-10	18	--	3-18	Shallow	142.56	142.19	9.33	132.86	5.98	136.21	7.34	134.85	7.46	134.73	10.00	132.19	3.83	138.36	7.40	134.79
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	9.50	132.29	8.22	133.57	8.52	133.27	7.21	134.58	9.50	132.29	6.94	134.85	7.96	133.83
MW-11	18	--	3-18	Shallow	143.77	143.16	9.63	133.53	7.79	135.37	8.39	134.77	7.13	136.03	10.60	132.56	5.95	137.21	8.18	134.98
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	15.65	132.00	14.45	133.20	14.72	132.93	13.47	134.18	15.60	132.05	13.25	134.40	14.14	133.51
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	14.38	131.85	13.20	133.03	13.48	132.75	12.20	134.03	14.29	131.94	11.92	134.31	12.85	133.38
MW-14	20	--	5-20	Shallow	147.05	146.90	13.24	133.66	12.44	134.46	12.47	134.43	11.27	135.63	13.33	133.57	10.88	136.02	12.15	134.75
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	15.08	131.80	13.87	133.01	14.18	132.70	12.86	134.02	14.91	131.97	12.60	134.28	13.48	133.40
MW-15	18	--	4-19	Shallow	136.13	135.73	5.25	130.48	3.74	131.99	3.60	132.13	3.12	132.61	6.71	129.02	2.88	132.85	4.13	131.60
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	3.85	131.74	2.95	132.64	3.02	132.57	2.10	133.49	3.80	131.79	1.80	133.79	2.53	133.06
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	3.96	131.73	3.06	132.63	3.14	132.55	2.23	133.46	3.93	131.76	1.93	133.76	2.68	133.01
MW-16	19	--	4-19	Shallow	138.74	138.30	7.02	131.28	4.14	134.16	4.45	133.85	3.11	135.19	7.68	130.62	2.54	135.76	5.15	133.15
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	6.83	131.55	5.84	132.54	5.98	132.40	4.98	133.40	6.74	131.64	4.67	133.71	5.45	132.93
MW-17	28.4	--	13-28	Shallow	142.07	141.66	7.75	133.91	4.11	137.55	5.18	136.48	3.14	138.52	8.96	132.70	2.81	138.85	5.40	136.26
MW-18	26.4	--	11-26	Shallow	145.68	145.41	12.65	132.76	10.87	134.54	11.45	133.96	9.86	135.55	12.70	132.71	9.68	135.73	10.95	134.46
MW-19	20.15	--	5-20	Shallow	148.47	148.22	14.62	133.60	13.02	135.20	13.43	134.79	11.95	136.27	14.83	133.39	NM	NM	13.21	135.01
MW-20	15.15	--	5-15	Shallow	148.50	148.19	14.50	133.69	12.87	135.32	13.15	135.04	11.90	136.29	14.72	133.47	NM	NM	12.96	135.23
MW-21	34.4	--	19-34	Shallow	148.43	147.97	15.12	132.85	13.68	134.29	14.02	133.95	12.54	135.43	15.58	132.39	11.46	136.51	13.34	134.63
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	14.93	131.99	13.71	133.21	14.02	132.90	12.70	134.22	14.82	132.10	12.42	134.50	13.35	133.57
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	14.29	131.67	13.10	132.86	13.38	132.58	12.09	133.87	14.12	131.84	11.83	134.13	12.70	133.26
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	16.28	131.98	14.96	133.30	15.33	132.93	13.90	134.36	16.18	132.08	13.70	134.56	14.63	133.63
MW-24	21	--	6-21	Shallow	148.52	147.85	15.69	132.16	14.46	133.39	14.74	133.11	13.45	134.40	16.08	131.77	12.96	134.89	14.14	133.71
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	7.59	131.62	6.47	132.74	6.72	132.49	5.49	133.72	7.43	131.78	5.24	133.97	6.08	133.13
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	12.19	131.45	11.06	132.58	11.33	132.31	10.12	133.52	11.95	131.69	9.86	133.78	10.63	133.01
MW-27	29	--	19 - 29	Shallow	145.93	145.78	12.44	133.34	9.44	136.34	10.48	135.30	8.47	137.31	13.63	132.15	6.84	138.94	10.64	135.14
MW-28	29	--	19 - 29	Shallow	146.35	146.12	14.13	131.99	12.95	133.17	13.22	132.90	11.98	134.14	14.10	132.02	11.45	134.67	12.65	133.47
MW-29	29	--	19 - 29	Shallow	141.03	140.55	8.60	131.95	7.52	133.03	7.72	132.83	6.57	133.98	8.58	131.97	6.15	134.40	7.16	133.39
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	5.92	130.09	5.57	130.44	5.43	130.58	5.04	130.97	5.69	130.32	4.72	131.29	5.00	131.01
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	10.32	131.07	9.67	131.72	9.68	131.71	8.92	132.47	10.12	131.27	8.61	132.78	9.16	132.23
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	Abandoned		Abandoned		Abandoned		Abandoned		Abandoned		Abandoned		Abandoned	
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	8.42	130.46	7.54	131.34	7.68	131.20	6.75	132.13	8.56	130.32	6.49	132.39	7.04	131.84
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	12.77	132.02	13.06	131.73
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	13.68	132.03	13.95	131.76
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11.68	130.27	11.81	130.14
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.15	128.78	2.45	128.48
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	12.94	135.42

Notes:

bgs - below ground surface
btoc - below top of casing
ft msl - feet above mean sea level
H&H - Hart & Hickman;
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. Monitoring wells MW-33D through MW-36D were surveyed by AECOM on December 5, 2019. MW-37 was surveyed by AECOM on August 17, 2020.
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
Vertical Gradients
Delavan Spray Technologies Site
Bamberg, South Carolina

Wells and Aquifer Designations	MW-3 (Shallow) to MW-3D (Deeper Limestone)	MW-3D (Deeper Limestone) to MW-3D1 (Deep Sandstone)	MW-9 (Shallow) to MW-9D (Deeper Limestone)	MW-10 (Shallow) to MW-10D (Deeper Limestone)	MW-14 (Shallow) to MW-14D (Deeper Limestone)	MW-15 (Shallow) to MW-15D (Deeper Limestone)	MW-15D (Deeper Limestone) to MW-15D1 (Deep Sandstone)	MW-16 (Shallow) to MW-16D (Deeper Limestone)	MW-21 (Shallow) to MW-21D (Deeper Limestone)
1/8/2008	6.86E-02	NI	9.82E-02	1.20E-01	NI	NI	NI	NI	NI
11/4/2009	4.03E-02	0.00E+00	3.06E-02	3.83E-02	3.66E-02	NI	NI	NI	NI
4/29/2010	3.36E-02	5.97E-04	1.02E-01	7.54E-02	4.12E-02	NI	NI	NI	NI
10/25/2010	7.83E-02	3.58E-03	3.03E-02	4.09E-02	7.29E-02	NI	NI	NI	NI
12/15/2010	4.19E-02	5.97E-04	3.53E-03	1.43E-02	4.95E-02	NI	NI	NI	NI
5/23/2011	7.58E-02	-2.99E-04	8.09E-02	6.97E-02	7.17E-02	-2.63E-02	NI	3.54E-02	NI
11/8/2011	4.97E-02	8.96E-04	6.18E-03	2.06E-02	5.75E-02	-4.60E-02	NI	2.46E-03	NI
5/8/2012	6.33E-02	5.97E-04	1.54E-01	1.17E-01	6.58E-02	1.82E-02	0.00E+00	6.00E-02	NI
3/20/2014	4.39E-02	-8.96E-04	1.17E-01	1.36E-01	6.89E-02	1.23E-02	5.00E-04	7.61E-02	9.95E-02
10/27/2014	5.28E-02	2.99E-04	4.56E-02	3.71E-02	6.12E-02	-1.96E-02	5.00E-04	0.00E+00	6.05E-02
4/20/2015	2.36E-02	-1.19E-03	1.20E-01	1.34E-01	5.88E-02	-5.26E-03	2.50E-04	7.40E-02	9.63E-02
10/26/2015	3.19E-02	-2.99E-04	1.16E-01	1.42E-01	6.77E-02	-2.77E-02	2.50E-04	5.23E-02	1.09E-01
4/11/2016	2.33E-02	-5.97E-04	1.34E-01	1.19E-01	5.78E-02	-1.23E-02	5.00E-04	7.96E-02	5.58E-02
10/24/2016	2.42E-02	-5.97E-04	1.04E-01	1.03E-01	5.32E-02	-2.84E-02	2.50E-04	4.07E-02	6.14E-02
4/12/2017	1.83E-02	-5.97E-04	1.08E-01	8.83E-02	3.48E-02	-7.37E-03	0.00E+00	8.49E-02	4.60E-02
10/16/2017	5.64E-02	2.99E-04	3.85E-02	1.63E-02	5.72E-02	-4.42E-02	2.50E-04	-9.47E-03	4.00E-02
5/7/2018	2.94E-02	0.00E+00	9.44E-02	7.54E-02	4.46E-02	-2.28E-02	2.50E-04	5.68E-02	5.02E-02
10/29/2018	3.39E-02	-2.99E-04	9.21E-02	4.51E-02	5.32E-02	-1.54E-02	5.00E-04	5.09E-02	4.88E-02
4/22/2019	1.83E-02	-2.99E-04	1.11E-01	4.29E-03	4.95E-02	-3.09E-02	7.50E-04	6.28E-02	5.63E-02
10/14/2019	4.69E-02	1.19E-03	1.32E-01	-2.86E-03	4.92E-02	-9.72E-02	7.50E-04	-3.58E-02	1.35E-02
4/14/2020	1.83E-02	-5.97E-04	1.08E-01	1.00E-01	5.35E-02	-3.30E-02	7.50E-04	7.19E-02	9.35E-02
10/19/2020	1.92E-02	0.00E+00	6.03E-02	2.74E-02	4.15E-02	-5.12E-02	1.25E-03	7.72E-03	4.93E-02

Notes:
1. Gradients are positive in the downward direction and negative in the upward direction.
2. Gradient units are feet per foot (ft/ft)

Table 3
Groundwater Quality Indicator Parameters
Delavan Spray Technologies Site
Bamberg, South Carolina

Well	pH (S.U.)	Conductivity (mS/cm)	Temperature (^{o}C)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-1	4.87	0.032	24.9	3.63	3.81	433.9
MW-2	5.08	0.028	25.3	20.71	1.46	340.30
MW-3	4.41	0.022	25.8	3.23	3.33	227.7
MW-3D	7.30	0.243	23.2	8.78	2.56	49.0
MW-3D1	7.85	0.215	22.2	0.23	0.15	-35.80
MW-4	4.55	0.056	21.8	35.41	0.66	133.80
MW-5	5.13	0.019	23.5	4.52	5.70	438.4
MW-6	4.94	0.018	23.0	5.84	0.61	372.90
MW-7	5.12	0.014	23.8	3.31	6.16	457.3
MW-8	4.71	0.071	27.9	2.69	2.33	450.3
MW-9	4.28	0.028	21.8	6.8	0.38	185.2
MW-9D	7.52	0.213	19.9	0.01	0.17	-60.40
MW-10	4.48	0.026	20.6	3.21	0.21	12.4
MW-10D	7.41	0.227	19.1	0.00	2.98	63.00
MW-11	5.19	0.230	20.5	35.78	0.18	249.60
MW-12D	9.31	0.207	19.0	0.77	4.20	8.8
MW-13D	7.46	0.227	20.2	0.04	3.71	72.9
MW-14	5.05	0.026	23.5	5.37	4.84	390.7
MW-14D	7.75	0.234	22.6	25.58	0.19	16.8
MW-15	4.83	0.454	21.6	14.19	0.79	-23.2
MW-15D	7.03	0.427	20.0	1.18	1.70	48.60
MW-15D1	7.54	0.206	19.5	1.04	0.23	-118.30
MW-16	4.62	0.028	20.1	11.1	0.26	-7.2
MW-16D	7.34	0.273	19.0	0.00	3.76	69.70
MW-17	5.12	0.082	20.0	2.35	2.74	442.10
MW-18	4.76	0.040	21.7	5.41	1.82	454.60
MW-19	4.04	0.071	23.0	2.85	0.82	201.60
MW-20	4.10	0.031	21.6	0.58	3.18	240.10
MW-21	5.16	0.019	22.3	64.37	0.42	329.8
MW-21D	7.80	0.231	22.7	2.35	0.19	97.8
MW-22D	7.72	0.260	21.6	1.11	3.03	265.6
MW-23D	7.56	0.303	21.9	2.51	2.47	326.90
MW-24	5.11	0.018	22.6	103.10	4.98	420.8
MW-25D	7.72	0.268	22.2	1.61	2.40	278.8
MW-26D	7.57	0.270	21.6	0.71	2.30	260.2
MW-27	4.84	0.041	21.1	1.20	5.84	246.1
MW-28	6.69	0.214	21.40	24.19	1.31	70.7
MW-29	4.88	0.044	21.00	5.12	0.69	116.9
MW-30D	7.73	0.268	21.70	1.23	2.65	259.5
MW-31D	7.83	0.253	21.5	3.44	3.70	269.4
MW-32DR	7.37	0.21	20.5	0.19	1.81	221.7
MW-33D	8.27	0.223	21.0	2.90	0.51	249.9
MW-34D	10.99	0.161	20.4	1.12	0.41	164.8
MW-35D	7.81	0.234	20.3	10.68	2.33	281.8
MW-36D	7.07	0.288	19.4	2.41	0.19	-131.6
MW-37	4.11	0.062	21.30	2.74	2.21	239.8

Notes:

^{o}C - degrees Celsius
mS/cm - milliSiemens per centimeter
ORP - oxidation-reduction potential
S.U. - standard units
mg/L - milligrams per liter
mV - millivolts
NTUs - Nephelometric Turbidity Units

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-1 FA80054-22 10/21/2020	MW-2 FA80054-14 10/20/2020	MW-3 FA80016-30 10/20/2020	MW-3D FA80016-31 10/20/2020	MW-3D1 FA80054-17 10/21/2020
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.62	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 0.75	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 1.2	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 0.85	< 0.34
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32	**5.9**	< 0.32
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 0.78	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 1.1	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 2	< 5	< 2
2-Hexanone	—	< 2	< 2	< 2	< 5	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 2.5	< 1
Acetone	—	< 10	< 10	< 10	< 25	< 10
Benzene	5	< 0.31	< 0.31	< 0.31	< 0.78	< 0.31
Bromodichloromethane	80 [1]	< 0.24	< 0.24	< 0.24	< 0.61	< 0.24
Bromoform	80 [1]	< 0.41	< 0.41	< 0.41	< 1	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	< 1.3	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 0.89	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 1.7	< 0.67
Chloroform	80 [1]	< 0.3	< 0.3	< 0.3	< 0.75	< 0.3
cis-1,2-Dichloroethylene	70	**2.4**	< 0.28	**2.2**	**8**	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 0.73	< 0.29
Dibromochloromethane	80 [1]	< 0.28	< 0.28	< 0.28	< 0.69	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.89	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 1.5	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 1.3	< 0.5
Methylene Chloride	5	< 2	< 2	< 2	< 5	< 2
Styrene	100	< 0.22	< 0.22	< 0.22	< 0.56	< 0.22
Tetrachloroethylene	5	**103**	**1.4**	**119**	**347**	< 0.22
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.75	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 0.55	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 0.54	< 0.21
Trichloroethylene	5	**2.9**	< 0.35	**3.1**	**5.3**	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 1	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 1.8	< 0.72

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-4	MW-5	MW-6	MW-7	MW-8
Lab Sample ID	USEPA	FA80016-28	FA80054-5	FA80054-6	FA80054-16	FA80054-23
Date Collected	MCL	10/20/2020	10/20/2020	10/20/2020	10/21/2020	10/21/2020
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.25	< 0.62
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 0.3	< 0.75
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 0.47	< 1.2
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 0.34	< 0.85
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32	< 0.32	< 0.81
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.78
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 0.43	< 1.1
2-Butanone (MEK)	—	< 2	< 2	< 2	< 2	< 5
2-Hexanone	—	< 2	< 2	< 2	< 2	< 5
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 1	< 2.5
Acetone	—	< 10	< 10	< 10	< 10	< 25
Benzene	5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.78
Bromodichloromethane	80 [1]	< 0.24	< 0.24	< 0.24	< 0.24	< 0.61
Bromoform	80 [1]	< 0.41	< 0.41	< 0.41	< 0.41	< 1
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	< 0.53	< 1.3
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 0.36	< 0.89
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 0.67	< 1.7
Chloroform	80 [1]	< 0.3	< 0.3	< 0.3	< 0.3	< 0.75
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28	< 0.28	**7.3**
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 0.29	< 0.73
Dibromochloromethane	80 [1]	< 0.28	< 0.28	< 0.28	< 0.28	< 0.69
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36	< 0.89
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 0.59	< 1.5 /M/m
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 5
Styrene	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.56
Tetrachloroethylene	5	< 0.22	**0.89 J//**	< 0.22	< 0.22	**355**
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.75
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 0.22	< 0.55
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 0.21	< 0.54
Trichloroethylene	5	< 0.35	< 0.35	< 0.35	< 0.35	**43.6**
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 0.41	< 1
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 0.72	< 1.8

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	MW-9 FA80016-26 10/20/2020	MW-9D FA80016-23 10/20/2020	MW-10 FA80016-18 10/20/2020	MW-10D FA80016-20 10/20/2020	MW-11 FA80054-19 10/21/2020
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 1.2	< 0.25	< 0.5	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 1.5	< 0.3	< 0.6	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 2.3	< 0.47	< 0.93	< 0.47	< 0.47
1,1-Dichloroethane	—	< 1.7	< 0.34	< 0.68	< 0.34	< 0.34
1,1-Dichloroethylene	7	< 1.6	< 0.32	**9.4**	< 0.32	< 0.32
1,2-Dichloroethane	5	< 1.6	< 0.31	< 0.62	< 0.31	< 0.31
1,2-Dichloropropane	5	< 2.1	< 0.43	< 0.85	< 0.43	< 0.43
2-Butanone (MEK)	—	< 10	< 2	< 4	< 2	< 2
2-Hexanone	—	< 10	< 2	< 4	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 5	< 1	< 2	< 1	< 1
Acetone	—	< 50	< 10	< 20	< 10	< 10
Benzene	5	< 1.6	< 0.31	< 0.62	< 0.31	< 0.31
Bromodichloromethane	80 [1]	< 1.2	< 0.24	< 0.48	< 0.24	< 0.24
Bromoform	80 [1]	< 2	< 0.41	< 0.81	< 0.41	< 0.41
Carbon Disulfide	—	< 2.7	< 0.53	< 1.1	< 0.53	< 0.53
Carbon Tetrachloride	5	< 1.8	< 0.36	< 0.71	< 0.36	< 0.36
Chlorobenzene	100	< 1	< 0.2	< 0.4	< 0.2	< 0.2
Chloroethane	—	< 3.3	< 0.67	< 1.3	< 0.67	< 0.67
Chloroform	80 [1]	< 1.5	< 0.3	< 0.6	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	**17.3**	< 0.28	**180**	< 0.28	< 0.28
cis-1,3-Dichloropropene	—	< 1.5	< 0.29	< 0.58	< 0.29	< 0.29
Dibromochloromethane	80 [1]	< 1.4	< 0.28	< 0.55	< 0.28	< 0.28
Ethylbenzene	700	< 1.8	< 0.36	< 0.71	< 0.36	< 0.36
Methyl Bromide	—	< 2.9	< 0.59	< 1.2	< 0.59	< 0.59
Methyl Chloride	—	< 2.5	< 0.5	< 1	< 0.5	< 0.5
Methylene Chloride	5	< 10	< 2	< 4	< 2	< 2
Styrene	100	< 1.1	< 0.22	< 0.44	< 0.22	< 0.22
Tetrachloroethylene	5	**443**	< 0.22	**494**	**0.4 J//**	< 0.22
Toluene	1000	< 1.5	< 0.3	**1.5 J//**	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 1.1	< 0.22	< 0.44	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 1.1	< 0.21	< 0.43	< 0.21	< 0.21
Trichloroethylene	5	**116**	< 0.35	**99.5**	< 0.35	< 0.35
Vinyl Chloride	2	< 2	< 0.41	< 0.82	< 0.41	< 0.41
Xylene (total)	10000	< 3.6	< 0.72	< 1.4	< 0.72	< 0.72

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-12D	MW-13D	MW-14	MW-14D	MW-15
Lab Sample ID	USEPA	FA80054-18	FA80054-21	FA80016-32	FA80016-24	FA80016-4
Date Collected	MCL	10/21/2020	10/21/2020	10/20/2020	10/20/2020	10/19/2020
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	**0.51 J//**	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.6	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.93	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.68	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	7	< 0.32	**2.7**	< 0.32	**0.85 J//**	< 0.32
1,2-Dichloroethane	5	< 0.31	< 0.62	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.85	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 4	< 2	< 2	< 2
2-Hexanone	—	< 2	< 4	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 2	< 1	< 1	< 1
Acetone	—	< 10	< 20	< 10	< 10	< 10
Benzene	5	< 0.31	< 0.62	< 0.31	< 0.31	< 0.31
Bromodichloromethane	80 [1]	< 0.24	< 0.48	< 0.24	< 0.24	< 0.24
Bromoform	80 [1]	< 0.41	< 0.81	< 0.41	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 1.1	< 0.53	< 0.53	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.71	< 0.36	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.4	< 0.2	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 1.3	< 0.67	< 0.67	< 0.67
Chloroform	80 [1]	< 0.3	< 0.6	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	< 0.28	< 0.55	< 0.28	**0.49 J//**	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.58	< 0.29	< 0.29	< 0.29
Dibromochloromethane	80 [1]	< 0.28	< 0.55	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.71	< 0.36	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 1.2	< 0.59	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 1	< 0.5	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 4	< 2	< 2	< 2
Styrene	100	< 0.22	< 0.44	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	5	**47.3**	**139**	< 0.22	**53.1**	< 0.22
Toluene	1000	< 0.3	< 0.6	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.44	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.43	< 0.21	< 0.21	< 0.21
Trichloroethylene	5	< 0.35	< 0.69	< 0.35	< 0.35	< 0.35
Vinyl Chloride	2	< 0.41	< 0.82	< 0.41	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 1.4	< 0.72	< 0.72	< 0.72

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-15D	MW-15D1	MW-16	MW-16D	MW-17
Lab Sample ID	USEPA	FA80016-6	FA80016-8	FA80016-14	FA80016-15	FA80054-7
Date Collected	MCL	10/19/2020	10/19/2020	10/20/2020	10/20/2020	10/20/2020
Volatile Organic Compounds by Method 8260D (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	< 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	< 0.28	< 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	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Toluene	1000	< 0.3	< 0.3	**0.72 J//**	< 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	< 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 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-18	MW-19	MW-20	MW-21	MW-21D
Lab Sample ID	USEPA	FA80054-8	FA80054-13	FA80054-11	FA80054-10	FA80054-12
Date Collected	MCL	10/20/2020	10/20/2020	10/20/2020	10/20/2020	10/20/2020
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	**263 J//**	< 0.62	< 50	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 150	< 0.75	< 60	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 230	< 1.2	< 93	< 0.47
1,1-Dichloroethane	—	< 0.34	< 170	< 0.85	< 68	< 0.34
1,1-Dichloroethylene	7	< 0.32	< 160	< 0.81	< 64	< 0.32
1,2-Dichloroethane	5	< 0.31	< 160	< 0.78	< 62	< 0.31
1,2-Dichloropropane	5	< 0.43	< 210	< 1.1	< 85	< 0.43
2-Butanone (MEK)	—	< 2	< 1000	< 5	< 400	< 2
2-Hexanone	—	< 2	< 1000	< 5	< 400	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 500	< 2.5	< 200	< 1
Acetone	—	< 10	< 5000	< 25	< 2000	< 10
Benzene	5	< 0.31	< 160	< 0.78	< 62	< 0.31
Bromodichloromethane	80 [1]	< 0.24	< 120	< 0.61	< 48	< 0.24
Bromoform	80 [1]	< 0.41	< 200	< 1	< 81	< 0.41
Carbon Disulfide	—	< 0.53	< 270	< 1.3	< 110	< 0.53
Carbon Tetrachloride	5	< 0.36	< 180	< 0.89	< 71	< 0.36
Chlorobenzene	100	< 0.2	< 100	< 0.5	< 40	< 0.2
Chloroethane	—	< 0.67	< 330	< 1.7	< 130	< 0.67
Chloroform	80 [1]	< 0.3	< 150	< 0.75	< 60	< 0.3
cis-1,2-Dichloroethylene	70	< 0.28	< 140	< 0.69	**689**	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 150	< 0.73	< 58	< 0.29
Dibromochloromethane	80 [1]	< 0.28	< 140	< 0.69	< 55	< 0.28
Ethylbenzene	700	< 0.36	< 180	< 0.89	< 71	< 0.36
Methyl Bromide	—	< 0.59	< 290	< 1.5	< 120	< 0.59
Methyl Chloride	—	< 0.5	< 250	< 1.3	< 100	< 0.5
Methylene Chloride	5	< 2	< 1000	< 5	< 400	< 2
Styrene	100	< 0.22	< 110	< 0.56	< 44	< 0.22
Tetrachloroethylene	5	< 0.22	**45600**	**271**	**13900**	**9.8**
Toluene	1000	< 0.3	< 150	< 0.75	< 60	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 110	< 0.55	< 44	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 110	< 0.54	< 43	< 0.21
Trichloroethylene	5	< 0.35	< 170	**3.6**	**314**	< 0.35
Vinyl Chloride	2	< 0.41	< 200	< 1	< 82	< 0.41
Xylene (total)	10000	< 0.72	< 360	< 1.8	< 140	< 0.72

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-22D	MW-23D	MW-24	MW-25D
Lab Sample ID	USEPA	FA80016-21	FA80016-27	FA80054-3	FA80016-12
Date Collected	MCL	10/20/2020	10/20/2020	10/20/2020	10/19/2020
Volatile Organic Compounds by Method 8260D (µg/L)					
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 6.2	< 0.5
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 7.5	< 0.6
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 12	< 0.93
1,1-Dichloroethane	—	< 0.34	< 0.34	< 8.5	< 0.68
1,1-Dichloroethylene	7	**1.1**	< 0.32	< 8.1	**2.3**
1,2-Dichloroethane	5	< 0.31	< 0.31	< 7.8	< 0.62
1,2-Dichloropropane	5	< 0.43	< 0.43	< 11	< 0.85
2-Butanone (MEK)	—	< 2	< 2	< 50	< 4
2-Hexanone	—	< 2	< 2	< 50	< 4
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 25	< 2
Acetone	—	< 10	< 10	< 250	< 20
Benzene	5	< 0.31	< 0.31	< 7.8	< 0.62
Bromodichloromethane	80 [1]	< 0.24	< 0.24	< 6.1	< 0.48
Bromoform	80 [1]	< 0.41	< 0.41	< 10	< 0.81
Carbon Disulfide	—	< 0.53	< 0.53	< 13	< 1.1
Carbon Tetrachloride	5	< 0.36	< 0.36	< 8.9	< 0.71
Chlorobenzene	100	< 0.2	< 0.2	< 5	< 0.4
Chloroethane	—	< 0.67	< 0.67	< 17	< 1.3
Chloroform	80 [1]	< 0.3	< 0.3	< 7.5	< 0.6
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	**14.8 J//**	**1.2 J//**
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 7.3	< 0.58
Dibromochloromethane	80 [1]	< 0.28	< 0.28	< 6.9	< 0.55
Ethylbenzene	700	< 0.36	< 0.36	< 8.9	< 0.71
Methyl Bromide	—	< 0.59	< 0.59	< 15	< 1.2
Methyl Chloride	—	< 0.5	< 0.5	< 13	< 1
Methylene Chloride	5	< 2	< 2	< 50	< 4
Styrene	100	< 0.22	< 0.22	< 5.6	< 0.44
Tetrachloroethylene	5	**87.5**	< 0.22	**1850**	**124**
Toluene	1000	< 0.3	< 0.3	< 7.5	< 0.6
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 5.5	< 0.44
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 5.4	< 0.43
Trichloroethylene	5	< 0.35	< 0.35	< 8.6	**1 J//**
Vinyl Chloride	2	< 0.41	< 0.41	< 10	< 0.82
Xylene (total)	10000	< 0.72	< 0.72	< 18	< 1.4

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID **Lab Sample ID** **Date Collected**	USEPA MCL	MW-26D FA80016-19 10/20/2020	MW-27 FA80054-20 10/21/2020	MW-28 FA80016-13 10/19/2020	MW-29 FA80016-10 10/19/2020
Volatile Organic Compounds by Method 8260D (µg/L)					
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	7	**1.3**	< 0.32	< 0.32	< 0.32
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 2	< 2	< 2
2-Hexanone	—	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 1
Acetone	—	< 10	< 10	< 10	< 10
Benzene	5	< 0.31	< 0.31	< 0.31	< 0.31
Bromodichloromethane	80 [1]	< 0.24	< 0.24	< 0.24	< 0.24
Bromoform	80 [1]	< 0.41	< 0.41	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	80 [1]	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	**1**	< 0.28	< 0.28	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	80 [1]	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 2	< 2	< 2
Styrene	100	< 0.22	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	5	**69.3**	< 0.22	< 0.22	< 0.22
Toluene	1000	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethylene	5	**1.1**	< 0.35	< 0.35	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 0.72

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-30D	MW-31D	MW-32DR	MW-33D
Lab Sample ID	USEPA	FA80016-9	FA80016-11	FA80016-16	FA80016-7
Date Collected	MCL	10/19/2020	10/19/2020	10/20/2020	10/19/2020
Volatile Organic Compounds by Method 8260D (µg/L)					
1,1,1-Trichloroethane	200	< 0.25	< 0.62	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.75	< 0.3	< 0.3
1,1,2-Trichloroethane	5	< 0.47	< 1.2	< 0.47	< 0.47
1,1-Dichloroethane	—	< 0.34	< 0.85	< 0.34	< 0.34
1,1-Dichloroethylene	7	**2**	**3**	**0.41 J//**	< 0.32
1,2-Dichloroethane	5	< 0.31	< 0.78	< 0.31	< 0.31
1,2-Dichloropropane	5	< 0.43	< 1.1	< 0.43	< 0.43
2-Butanone (MEK)	—	< 2	< 5	< 2	< 2
2-Hexanone	—	< 2	< 5	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	< 1	< 2.5	< 1	< 1
Acetone	—	< 10	< 25	< 10	< 10
Benzene	5	< 0.31	< 0.78	< 0.31	< 0.31
Bromodichloromethane	80 [1]	< 0.24	< 0.61	< 0.24	< 0.24
Bromoform	80 [1]	< 0.41	< 1	< 0.41	< 0.41
Carbon Disulfide	—	< 0.53	< 1.3	< 0.53	< 0.53
Carbon Tetrachloride	5	< 0.36	< 0.89	< 0.36	< 0.36
Chlorobenzene	100	< 0.2	< 0.5	< 0.2	< 0.2
Chloroethane	—	< 0.67	< 1.7	< 0.67	< 0.67
Chloroform	80 [1]	< 0.3	< 0.75	< 0.3	**0.35 J//**
cis-1,2-Dichloroethylene	70	**0.99 J//**	< 0.69	< 0.28	< 0.28
cis-1,3-Dichloropropene	—	< 0.29	< 0.73	< 0.29	< 0.29
Dibromochloromethane	80 [1]	< 0.28	< 0.69	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.89	< 0.36	< 0.36
Methyl Bromide	—	< 0.59	< 1.5	< 0.59	< 0.59
Methyl Chloride	—	< 0.5	< 1.3	< 0.5	< 0.5
Methylene Chloride	5	< 2	< 5	< 2	< 2
Styrene	100	< 0.22	< 0.56	< 0.22	< 0.22
Tetrachloroethylene	5	**80.2**	**144**	**26.3**	< 0.22
Toluene	1000	< 0.3	< 0.75	< 0.3	**0.33 J//**
trans-1,2-Dichloroethylene	100	< 0.22	< 0.55	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	< 0.21	< 0.54	< 0.21	< 0.21
Trichloroethylene	5	**0.8 J//**	< 0.86	**0.47 J//**	< 0.35
Vinyl Chloride	2	< 0.41	< 1	< 0.41	< 0.41
Xylene (total)	10000	< 0.72	< 1.8	< 0.72	< 0.72

Table 4
Summary of Analytical Results in Groundwater
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-34D	MW-35D	MW-36D	MW-37
Lab Sample ID	USEPA	FA80016-3	FA80016-5	FA80054-15	FA80054-9
Date Collected	MCL	10/19/2020	10/19/2020	10/21/2020	10/20/2020
Volatile Organic Compounds by Method 8260D (µg/L)					
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	**104 J//**
1,1,2,2-Tetrachloroethane	—	< 0.3	< 0.3	< 0.3	< 75
1,1,2-Trichloroethane	5	< 0.47	< 0.47	< 0.47	< 120
1,1-Dichloroethane	—	< 0.34	< 0.34	< 0.34	< 85
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32	**95.2 J//**
1,2-Dichloroethane	5	< 0.31	< 0.31	< 0.31	< 78
1,2-Dichloropropane	5	< 0.43	< 0.43	< 0.43	< 110
2-Butanone (MEK)	—	< 2	< 2	< 2	< 500
2-Hexanone	—	< 2	< 2	< 2	< 500
4-Methyl-2-pentanone (MIBK)	—	< 1	< 1	< 1	< 250
Acetone	—	< 10	< 10	< 10	< 2500
Benzene	5	< 0.31	< 0.31	< 0.31	< 78
Bromodichloromethane	80 [1]	< 0.24	< 0.24	< 0.24	< 61
Bromoform	80 [1]	< 0.41	< 0.41	< 0.41	< 100
Carbon Disulfide	—	< 0.53	< 0.53	< 0.53	< 130
Carbon Tetrachloride	5	< 0.36	< 0.36	< 0.36	< 89
Chlorobenzene	100	< 0.2	< 0.2	< 0.2	< 50
Chloroethane	—	< 0.67	< 0.67	< 0.67	< 170
Chloroform	80 [1]	< 0.3	< 0.3	< 0.3	< 75
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28	< 69
cis-1,3-Dichloropropene	—	< 0.29	< 0.29	< 0.29	< 73
Dibromochloromethane	80 [1]	< 0.28	< 0.28	< 0.28	< 69
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 89
Methyl Bromide	—	< 0.59	< 0.59	< 0.59	< 150
Methyl Chloride	—	< 0.5	< 0.5	< 0.5	< 130
Methylene Chloride	5	< 2	< 2	< 2	< 500
Styrene	100	< 0.22	< 0.22	< 0.22	< 56
Tetrachloroethylene	5	< 0.22	< 0.22	**0.52 J//**	**24700**
Toluene	1000	< 0.3	< 0.3	< 0.3	< 75
trans-1,2-Dichloroethylene	100	< 0.22	< 0.22	< 0.22	< 55
trans-1,3-Dichloropropene	—	< 0.21	< 0.21	< 0.21	< 54
Trichloroethylene	5	< 0.35	< 0.35	< 0.35	< 86
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 100
Xylene (total)	10000	< 0.72	< 0.72	< 0.72	< 180

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 ug/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 8 for explanation of data qualifiers.

Table 5
Summary of Analytical Results in Surface Water
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID Lab Sample ID Date Collected	USEPA MCL	SCDHEC WCS	SW-01-LC FA80054-25 10/21/2020	SW-02-LC FA80054-27 10/21/2020	SW-03-HMB FA80054-28 10/21/2020	SW-04-TLC FA80054-26 10/21/2020
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	—	< 0.25	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	—	4	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	5	16	< 0.47	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	—	—	< 0.34	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	7	7100	< 0.32	< 0.32	< 0.32	< 0.32
1,2-Dichloroethane	5	37	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	5	15	< 0.43	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	—	—	< 2	< 2	< 2	< 2
2-Hexanone	—	—	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	—	—	< 1	< 1	< 1	< 1
Acetone	—	—	< 10	< 10	< 10	< 10
Benzene	5	51	< 0.31	< 0.31	< 0.31	< 0.31
Bromodichloromethane	80 [1]	17	< 0.24	< 0.24	< 0.24	< 0.24
Bromoform	80 [1]	140	< 0.41	< 0.41	< 0.41	< 0.41
Carbon Disulfide	—	—	< 0.53	< 0.53	< 0.53	< 0.53
Carbon Tetrachloride	5	1.6	< 0.36	< 0.36	< 0.36	< 0.36
Chlorobenzene	100	1600	< 0.2	< 0.2	< 0.2	< 0.2
Chloroethane	—	—	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	80 [1]	470	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	70	—	**0.44 J//**	< 0.28	< 0.28	< 0.28
cis-1,3-Dichloropropene	—	21	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	80 [1]	13	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	2100	< 0.36	< 0.36	< 0.36	< 0.36
Methyl Bromide	—	1500	< 0.59	< 0.59	< 0.59	< 0.59
Methyl Chloride	—	—	< 0.5	< 0.5	< 0.5	< 0.5
Methylene Chloride	5	590	< 2	< 2	< 2	< 2
Styrene	100	—	< 0.22	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	5	3.3	**2.9**	< 0.22	< 0.22	< 0.22
Toluene	1000	15000	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethylene	100	10000	< 0.22	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	—	21	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethylene	5	30	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	2	2.4	< 0.41	< 0.41	< 0.41	< 0.41
Xylene (total)	10000	—	< 0.72	< 0.72	< 0.72	< 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 ug/L.
— - Indicates No Standard (for screening criteria).
Bold font and shading indicate the concentration is detected.
SCDHEC WCS - South Carolina Department of Health and Environmental Control R.61-68 Water Classifications and Standards for Consumption of Organism Only (June 2014).
See Table 8 for explanation of data qualifiers.

Table 6
Analytical Results for Investigation-Derived-Waste Sample
DelavanSpray Technologies
Bamberg, South Carolina

Sample ID **Lab Sample ID** **Date Collected**	USEPA Toxicity Characteristic	AQUEOUS IDW FA80054-24 10/21/2020	
Volatile Organic Compounds by Method 8260D (µg/L)			
1,1,1-Trichloroethane	—	**1.8**	
1,1,2,2-Tetrachloroethane	—	< 0.3	
1,1,2-Trichloroethane	—	< 0.47	
1,1-Dichloroethane	—	< 0.34	
1,1-Dichloroethylene	700	**0.91**	**J//**
1,2-Dichloroethane	500	< 0.31	
1,2-Dichloropropane	—	< 0.43	
2-Butanone (MEK)	200,000	< 2	
2-Hexanone	—	< 2	
4-Methyl-2-pentanone (MIBK)	—	< 1	
Acetone	—	**40.8**	
Benzene	500	< 0.31	
Bromodichloromethane	—	< 0.24	
Bromoform	—	< 0.41	
Carbon Disulfide	—	< 0.53	
Carbon Tetrachloride	500	< 0.36	
Chlorobenzene	100,000	< 0.2	
Chloroethane	—	< 0.67	
Chloroform	6,000	< 0.3	
cis-1,2-Dichloroethylene	—	**3.7**	
cis-1,3-Dichloropropene	—	< 0.29	
Dibromochloromethane	—	< 0.28	
Ethylbenzene	—	< 0.36	
Methyl Bromide	—	< 0.59	
Methyl Chloride	—	< 0.5	
Methylene Chloride	—	< 2	
Styrene	—	< 0.22	
Tetrachloroethylene	700	**290**	
Toluene	—	< 0.3	
trans-1,2-Dichloroethylene	—	< 0.22	
trans-1,3-Dichloropropene	—	< 0.21	
Trichloroethylene	500	**4.4**	
Vinyl Chloride	200	< 0.41	
Xylene (total)	—	< 0.72	
Semivolatile Organic Compounds by Method 8270E (µg/L)			
1,2,4-Trichlorobenzene	—	< 1	
1,2-Dichlorobenzene	—	< 0.48	
1,3-Dichlorobenzene	—	< 0.48	
1,4-Dichlorobenzene	7,500	< 0.48	
2,2'-Oxybis(1-chloropropane)	—	< 0.72	
2,4,5-Trichlorophenol	400,000	< 0.7	
2,4,6-Trichlorophenol	2,000	< 0.72	
2,4-Dichlorophenol	—	< 0.8	
2,4-Dimethylphenol	—	< 0.7	
2,4-Dinitrophenol	—	< 4.8	
2,4-Dinitrotoluene	130	< 0.77	
2,6-Dinitrotoluene	—	< 0.68	
2-Chloronaphthalene	—	< 0.48	
2-Chlorophenol	—	< 0.6	
2-Methylnaphthalene	—	< 0.57	
2-Methylphenol	200,000	< 0.53	
2-Nitroaniline	—	< 1.7	
2-Nitrophenol	—	< 0.81	
3&4-Methylphenol	200,000	< 0.93	
3,3'-Dichlorobenzidine	—	< 0.61	
3-Nitroaniline	—	< 0.84	
4,6-Dinitro-o-cresol	—	< 1.9	
4-Bromophenyl Phenyl Ether	—	< 0.81	
4-Chloro-3-methyl Phenol	—	< 0.56	
4-Chloroaniline	—	< 0.6	
4-Chlorophenyl Phenyl Ether	—	< 0.51	
4-Nitroaniline	—	< 1.1	

Table 6
Analytical Results for Investigation-Derived-Waste Sample
DelavanSpray Technologies
Bamberg, South Carolina

Sample ID **Lab Sample ID** **Date Collected**	USEPA Toxicity Characteristic	AQUEOUS IDW FA80054-24 10/21/2020	
Semivolatile Organic Compounds by Method 8270E (µg/L)			
4-Nitrophenol	—	< 4.8	
Acenaphthene	—	< 0.6	
Acenaphthylene	—	< 0.61	
Anthracene	—	< 0.76	
Benzo(a)anthracene	—	< 0.72	
Benzo(a)pyrene	—	< 0.75	
Benzo(b)fluoranthene	—	< 0.74	
Benzo(g,h,i)perylene	—	< 0.78	
Benzo(k)fluoranthene	—	< 0.82	
Benzoic Acid	—	< 9.5	
Benzyl Alcohol	—	< 0.58	
bis(2-Chloroethoxy)methane	—	< 0.77	
bis(2-Chloroethyl)ether	—	< 0.7	
bis(2-Ethylhexyl)phthalate	—	< 0.95	
Butyl Benzyl Phthalate	—	< 0.95	
Carbazole	—	< 0.57	
Chrysene	—	< 0.81	
Di-n-butyl Phthalate	—	< 0.95	
Di-n-octyl Phthalate	—	< 0.95	
Dibenzo(a,h)anthracene	—	< 0.77	
Dibenzofuran	—	< 0.57	
Diethyl Phthalate	—	< 0.95	
Dimethyl Phthalate	—	< 0.95	
Fluoranthene	—	< 0.53	
Fluorene	—	< 0.67	
Hexachlorobenzene	130	< 0.66	
Hexachlorobutadiene	500	< 0.48	
Hexachlorocyclopentadiene	—	< 1.7	
Hexachloroethane	3,000	< 1.6	
Indeno(1,2,3-cd)pyrene	—	< 0.68	
Isophorone	—	< 0.74	
N-Nitrosodi-n-propylamine	—	< 0.64	
N-Nitrosodiphenylamine	—	< 0.77	
Naphthalene	—	< 0.48	
Nitrobenzene	2,000	< 0.89	
Pentachlorophenol	100,000	< 4.8	
Phenanthrene	—	< 0.82	
Phenol	—	< 0.48	
Pyrene	—	< 0.65	
Metals by Method 6010D (µg/L)			
Antimony	—	**4.1**	**JB//**
Arsenic	5,000	< 1.3	
Beryllium	—	**0.56**	**J//**
Cadmium	1,000	< 0.2	
Chromium	5,000	**33.3**	
Copper	—	**32.6**	
Lead	5,000	**3.8**	**J//**
Nickel	—	**8**	**J//**
Selenium	1,000	< 2.9	
Silver	5,000	< 0.7	
Thallium	—	< 1.4	
Zinc	—	**61.3**	
Mercury by Method 7470A (µg/L)			
Mercury	200	< 0.03	

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 8 for explanation of data qualifiers.

Table 7
Summary of QA/QC Sample Results
Delavan Spray Technologies
Bamberg, South Carolina

Field Duplicates

Sample ID	MW-4	MW-4-A	Relative	MW-14D	MW-14D-A	Relative
Lab Sample ID	FA80016-28	FA80016-29	Percent	FA80016-24	FA80016-25	Percent
Date Collected	10/20/2020	10/20/2020	Difference	10/20/2020	10/20/2020	Difference
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	< 0.25	< 0.25	NC	< 0.25	< 0.25	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	NC	< 0.3	< 0.3	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	NC	< 0.47	< 0.47	NC
1,1-Dichloroethane	< 0.34	< 0.34	NC	< 0.34	< 0.34	NC
1,1-Dichloroethylene	< 0.32	< 0.32	NC	**0.85 J//**	**0.89 J//**	4.6
1,2-Dichloroethane	< 0.31	< 0.31	NC	< 0.31	< 0.31	NC
1,2-Dichloropropane	< 0.43	< 0.43	NC	< 0.43	< 0.43	NC
2-Butanone (MEK)	< 2	< 2	NC	< 2	< 2	NC
2-Hexanone	< 2	< 2	NC	< 2	< 2	NC
4-Methyl-2-pentanone (MIBK)	< 1	< 1	NC	< 1	< 1	NC
Acetone	< 10	< 10	NC	< 10	< 10	NC
Benzene	< 0.31	< 0.31	NC	< 0.31	< 0.31	NC
Bromodichloromethane	< 0.24	< 0.24	NC	< 0.24	< 0.24	NC
Bromoform	< 0.41	< 0.41	NC	< 0.41	< 0.41	NC
Carbon Disulfide	< 0.53	< 0.53	NC	< 0.53	< 0.53	NC
Carbon Tetrachloride	< 0.36	< 0.36	NC	< 0.36	< 0.36	NC
Chlorobenzene	< 0.2	< 0.2	NC	< 0.2	< 0.2	NC
Chloroethane	< 0.67	< 0.67	NC	< 0.67	< 0.67	NC
Chloroform	< 0.3	< 0.3	NC	< 0.3	< 0.3	NC
cis-1,2-Dichloroethylene	< 0.28	< 0.28	NC	**0.49 J//**	**0.51 J//**	4.0
cis-1,3-Dichloropropene	< 0.29	< 0.29	NC	< 0.29	< 0.29	NC
Dibromochloromethane	< 0.28	< 0.28	NC	< 0.28	< 0.28	NC
Ethylbenzene	< 0.36	< 0.36	NC	< 0.36	< 0.36	NC
Methyl Bromide	< 0.59	< 0.59	NC	< 0.59	< 0.59	NC
Methyl Chloride	< 0.5	< 0.5	NC	< 0.5	< 0.5	NC
Methylene Chloride	< 2	< 2	NC	< 2	< 2	NC
Styrene	< 0.22	< 0.22	NC	< 0.22	< 0.22	NC
Tetrachloroethylene	< 0.22	< 0.22	NC	**53.1**	**51.5**	3.1
Toluene	< 0.3	< 0.3	NC	< 0.3	< 0.3	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	NC	< 0.22	< 0.22	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	NC	< 0.21	< 0.21	NC
Trichloroethylene	< 0.35	< 0.35	NC	< 0.35	**0.45 J//**	NC
Vinyl Chloride	< 0.41	< 0.41	NC	< 0.41	< 0.41	NC
Xylene (total)	< 0.72	< 0.72	NC	< 0.72	< 0.72	NC

Table 7
Summary of QA/QC Sample Results
Delavan Spray Technologies
Bamberg, South Carolina

Field Duplicates

Sample ID	MW-22D	MW-22D-A		Relative	MW-24	MW-24-A	Relative
Lab Sample ID	FA80016-21	FA80016-22		Percent	FA80054-3	FA80054-4	Percent
Date Collected	10/20/2020	10/20/2020		Difference	10/20/2020	10/20/2020	Difference
Volatile Organic Compounds by Method 8260D (µg/L)							
1,1,1-Trichloroethane	< 0.25	< 0.25	/M/D	NC	< 6.2	< 2.5	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	/M/D	NC	< 7.5	< 3	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	/M/D	NC	< 12	< 4.7	NC
1,1-Dichloroethane	< 0.34	< 0.34	/M/D	NC	< 8.5	< 3.4	NC
1,1-Dichloroethylene	**1.1**	**1.1**	/M/D	0.0	< 8.1	< 3.2	NC
1,2-Dichloroethane	< 0.31	< 0.31	/M/D	NC	< 7.8	< 3.1	NC
1,2-Dichloropropane	< 0.43	< 0.43	/M/D	NC	< 11	< 4.3	NC
2-Butanone (MEK)	< 2	< 2	/M/D	NC	< 50	< 20	NC
2-Hexanone	< 2	< 2	/M/D	NC	< 50	< 20	NC
4-Methyl-2-pentanone (MIBK)	< 1	< 1	/M/D	NC	< 25	< 10	NC
Acetone	< 10	< 10	/M/D	NC	< 250	< 100	NC
Benzene	< 0.31	< 0.31	/M/D	NC	< 7.8	< 3.1	NC
Bromodichloromethane	< 0.24	< 0.24	/M/D	NC	< 6.1	< 2.4	NC
Bromoform	< 0.41	< 0.41	/M/D	NC	< 10	< 4.1	NC
Carbon Disulfide	< 0.53	< 0.53	/M/D	NC	< 13	< 5.3	NC
Carbon Tetrachloride	< 0.36	< 0.36	/M/D	NC	< 8.9	< 3.6	NC
Chlorobenzene	< 0.2	< 0.2	/M/D	NC	< 5	< 2	NC
Chloroethane	< 0.67	< 0.67	/M/D	NC	< 17	< 6.7	NC
Chloroform	< 0.3	< 0.3	/M/D	NC	< 7.5	< 3	NC
cis-1,2-Dichloroethylene	< 0.28	< 0.28	/M/D	NC	**14.8 J//**	**17.2**	15.0
cis-1,3-Dichloropropene	< 0.29	< 0.29	/M/D	NC	< 7.3	< 2.9	NC
Dibromochloromethane	< 0.28	< 0.28	/M/D	NC	< 6.9	< 2.8	NC
Ethylbenzene	< 0.36	< 0.36	/M/D	NC	< 8.9	< 3.6	NC
Methyl Bromide	< 0.59	< 0.59	/M/D	NC	< 15	< 5.9	NC
Methyl Chloride	< 0.5	< 0.5	/M/D	NC	< 13	< 5	NC
Methylene Chloride	< 2	< 2	/M/D	NC	< 50	< 20	NC
Styrene	< 0.22	< 0.22	/M/D	NC	< 5.6	< 2.2	NC
Tetrachloroethylene	**87.5**	**88.8**	**/M/D**	1.5	**1850**	**1710**	7.9
Toluene	< 0.3	< 0.3	/M/D	NC	< 7.5	< 3	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	/M/D	NC	< 5.5	< 2.2	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	/M/D	NC	< 5.4	< 2.1	NC
Trichloroethylene	< 0.35	< 0.35	/M/D	NC	< 8.6	**4.8 J//**	NC
Vinyl Chloride	< 0.41	< 0.41	/M/D	NC	< 10	< 4.1	NC
Xylene (total)	< 0.72	< 0.72	/M/D	NC	< 18	< 7.2	NC

Table 7
Summary of QA/QC Sample Results
Delavan Spray Technologies
Bamberg, South Carolina

Field Duplicates

Sample ID	MW-32DR		MW-32DR-A		Relative
Lab Sample ID	FA80016-16		FA80016-17		Percent
Date Collected	10/20/2020		10/20/2020		Difference
Volatile Organic Compounds by Method 8260D (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	**0.41**	**J//**	**0.5**	**J//**	19.8
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	< 0.28		**0.28**	**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	**26.3**		**28.3**		7.3
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	**0.47**	**J//**	**0.41**	**J//**	13.6
Vinyl Chloride	< 0.41		< 0.41		NC
Xylene (total)	< 0.72		< 0.72		NC

Table 7
Summary of QA/QC Sample Results
Delavan Spray Technologies
Bamberg, South Carolina

Trip Blanks

Sample ID	TRIP BLANK 1	TRIP BLANK 2	TRIP BLANK 3	TRIP BLANK 4
Lab Sample ID	FA80016-1	FA80016-2	FA80054-1	FA80054-2
Date Collected	10/19/2020	10/19/2020	10/20/2020	10/20/2020
Volatile Organic Compounds by Method 8260D (µg/L)				
1,1,1-Trichloroethane	< 0.25	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	< 0.47	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	< 0.34	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	< 0.32	< 0.32	< 0.32	< 0.32
1,2-Dichloroethane	< 0.31	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	< 0.43	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	< 2	< 2	< 2	< 2
2-Hexanone	< 2	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	< 1	< 1	< 1	< 1
Acetone	< 10	< 10	< 10	< 10
Benzene	< 0.31	< 0.31	< 0.31	< 0.31
Bromodichloromethane	< 0.24	< 0.24	< 0.24	< 0.24
Bromoform	< 0.41	< 0.41	< 0.41	< 0.41
Carbon Disulfide	< 0.53	< 0.53	< 0.53	< 0.53
Carbon Tetrachloride	< 0.36	< 0.36	< 0.36	< 0.36
Chlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2
Chloroethane	< 0.67	< 0.67	< 0.67	< 0.67
Chloroform	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	< 0.28	< 0.28	< 0.28	< 0.28
cis-1,3-Dichloropropene	< 0.29	< 0.29	< 0.29	< 0.29
Dibromochloromethane	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	< 0.36	< 0.36	< 0.36	< 0.36
Methyl Bromide	< 0.59	< 0.59	< 0.59	< 0.59
Methyl Chloride	< 0.5	< 0.5	< 0.5	< 0.5
Methylene Chloride	< 2	< 2	< 2	< 2
Styrene	< 0.22	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	< 0.22	< 0.22	< 0.22	< 0.22
Toluene	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,2-Dichloroethylene	< 0.22	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	< 0.21	< 0.21	< 0.21	< 0.21
Trichloroethylene	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	< 0.41	< 0.41	< 0.41	< 0.41
Xylene (total)	< 0.72	< 0.72	< 0.72	< 0.72

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 8 for explanation of data qualifiers.

Table 8
Definitions of Data Qualifiers
UTC Delevan
Bamberg, South Carolina

Modifier	Description
<	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

Qualifier	Description
B	Analyte found in associated method blank.
J	Estimated concentration above the method detection limit and below the reporting limit.

Result Data Qualifiers

Qualifier	Description
M	A matrix effect was present.

Analysis Data Qualifiers

Qualifier	Description
D	Percent difference of matrix spike duplicate exceeded established criteria.
m	Matrix spike recovery below established criteria.

Table 9
Proposed 2021 - 2022 Monitoring Well Sampling Schedule
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Classification	Screen Interval (ft bgs)	Proposed 2021-2022 Sampling Plan			Proposed 2021-2022 Sampling Schedule			
			Field Water Quality Indicator Parameters	VOCs[1]	Proposed Sampling Frequency	April 2021	October 2021	April 2022	October 2022
Off-Site Background Areas									
MW-17	Shallow	13-28	X	X	Biennial				X
MW-18	Shallow	11-26	X	X	Annual		X		X
On-Site Background Areas									
MW-4	Shallow	4-14	X	X	Biennial				X
Wooded Areas of Interest									
MW-9	Shallow	5-20	X	X	Semi-Annual	X	X	X	X
MW-9D	Deep	44-49	X	X	Biennial				X
MW-10	Shallow	3-18	X	X	Semi-Annual	X	X	X	X
MW-10D	Deep	43-48	X	X	Semi-Annual	X	X	X	X
MW-11	Shallow	3-18	X	X	Biennial				X
Manufacturing Areas									
MW-1	Shallow	3-18	X	X	Semi-Annual	X	X	X	X
MW-2	Shallow	3-18	X	X	Semi-Annual	X	X	X	X
MW-3	Shallow	3-18	X	X	Semi-Annual	X	X	X	X
MW-3D	Deep	44-49	X	X	Semi-Annual	X	X	X	X
MW-3D1	Deep	75-85	X	X	Biennial				X
MW-5	Shallow	4-14	X	X	Annual		X		X
MW-6	Shallow	4-14	X	X	Biennial				X
MW-7	Shallow	5-20	X	X	Annual		X		X
MW-8	Shallow	5-20	X	X	Semi-Annual	X	X	X	X
MW-12D	Deep	40-50	X	X	Semi-Annual	X	X	X	X
MW-13D	Deep	40-50	X	X	Semi-Annual	X	X	X	X
MW-19	Shallow	5-20	X	X	Semi-Annual	X	X	X	X
MW-20	Shallow	5-15	X	X	Semi-Annual	X	X	X	X
MW-21	Shallow	19-34	X	X	Semi-Annual	X	X	X	X
MW-21D	Deep	43-53	X	X	Semi-Annual	X	X	X	X
MW-24	Shallow	6-21	X	X	Semi-Annual	X	X	X	X
Downgradient Off-Site Areas									
MW-14	Shallow	5-20	X	X	Annual		X		X
MW-14D	Deep	40-50	X	X	Semi-Annual	X	X	X	X
MW-15	Shallow	4-19	X	X	Biennial				X
MW-15D	Deep	35-45	X	X	Biennial				X
MW-15D1	Deep	75-85	X	X	Biennial				X
MW-16	Shallow	4-19	X	X	Biennial				X
MW-16D	Deep	35-45	X	X	Biennial				X
MW-22D	Deep	38-48	X	X	Annual		X		X
MW-23D	Deep	40-50	X	X	Biennial				X
MW-25D	Deep	52-62	X	X	Semi-Annual	X	X	X	X
MW-26D	Deep	38-48	X	X	Annual		X		X
MW-27	Shallow	19 - 29	X	X	Annual		X		X
MW-28	Shallow	19 - 29	X	X	Annual		X		X
MW-29	Shallow	19 - 29	X	X	Biennial				X
MW-30D	Deep	50 - 60	X	X	Semi-Annual	X	X	X	X
MW-31D	Deep	50 - 60	X	X	Semi-Annual	X	X	X	X
MW-32DR	Deep	50 - 60	X	X	Semi-Annual	X	X	X	X
MW-33D	Deep	64 - 74	X	X	Semi-Annual	X	X	X	X
MW-34D	Deep	69.4 - 79.4	X	X	Semi-Annual	X	X	X	X
MW-35D	Deep	64.2 - 74.2	X	X	Semi-Annual	X	X	X	X
MW-36D	Deep	53.9 - 63.9	X	X	Semi-Annual	X	X	X	X
MW-37	Shallow	11.8 - 21.8	X	X	Semi-Annual	X	X	X	X

Table 9
Proposed 2021 - 2022 Monitoring Well Sampling Schedule
Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Classification	Screen Interval (ft bgs)	Proposed 2021-2022 Sampling Plan			Proposed 2021-2022 Sampling Schedule			
			Field Water Quality Indicator Parameters	VOCs[1]	Proposed Sampling Frequency	April 2021	October 2021	April 2022	October 2022
Surface Water Samples									
SW-01-LC						X	X	X	X
SW-02-LC						X	X	X	X
SW-03-HMB						X	X	X	X
SW-04-TLC						X	X	X	X
Totals									
Totals for all analytes						29	37	29	50
QA/QC Samples									
Field Duplicate	one per 10 samples					3	4	3	5
MS/MSD	one per 20 samples					1	2	1	2
Rinseate Blank	one per 20 samples for re-useable sampling equipment					NA[3]	NA[3]	NA[3]	NA[3]
Trip Blank	one per crew/cooler per day					3	4	3	5
Aqueous IDW									
IDW-1	Composite sample from drums for waste profiling[2]					1	1	1	1

Notes:
bgs - below ground surface
IDW - investigation-derived waste
MNA - monitored natural attenuation
MS - matrix spike
MSD - matrix spike duplicate
QA/QC - quality assurance / quality control
[1] - TCL VOCs by Method 8260B.
[2] - of TCL VOCs (8260B), TCL SVOCs (8270D) and Priority Pollutant Metals (610C/7470B)
[3] - rinseate blanks are not expected since all downhole sampling equipment is disposable.

Table 10
Proposed 2021 - 2022 Residential Well Sampling Schedule
UTC Delavan Spray Technologies Site
Bamberg, South Carolina

Well Number	Northing	Easting	Most Recent Date Sampled[1]	Fall 2021 and Fall 2022 Residential Well Sampling	
				Field Water Quality Indicator Parameters	Select VOCs[1]
Off-Site Downgradient Residential Wells					
13 LCT	521,777.44	1,980,979.28	11/25/2019	X	X[2]
343 LCR	521,781.76	1,983,136.63	11/25/2019	X	X[2]
410 LCR	522,190.29	1,982,839.98	10/17/2019	X	X[2]
448 LCR	522,812.26	1,982,941.79	10/17/2019	X	X[2]
546 LRC-A	522,763.93	1,982,312.22	10/17/2019	X	X[2]
546 LRC-B	522,749.18	1,982,009.42	10/17/2019	X	X[2]
684 LCR	522,330.63	1,981,464.80	10/17/2019	X	X[2]
689 LCR	521,999.66	1,981,367.01	10/17/2019	X	X[2]
698 LCR	522,126.61	1,981,350.46	4/19/2018	X	X[2]
715 LCR	521,988.89	1,981,329.98	11/25/2019	X	X[2]
743 LCR	521,785.78	1,981,156.32	10/17/2019	X	X[2]
Totals					
Totals for all analytes				11	22
QA/QC Samples					
Trip Blank	one per cooler per shipment			-	1

Notes:

GAC - granular activated carbon

QA/QC - quality assurance / quality control

VOCs - volatile organic compounds

[1] - PCE, TCE, cis-1,2-DCE and vinyl chloride by Method 524.2

[2] - This well has a GAC treatment unit installed. Samples will be collected both pre- and post-treatment.

APPENDIX A

FALL 2020 RESIDENTIAL SAMPLING ACTIVITIES AND RESULTS

AECOM
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864 234 3000 tel
864 234 3069 fax

TECHNICAL MEMORANDUM

TO: Cynde Devlin, SCDHEC

FROM: Conan Fitzgerald, AECOM
Leslee J. Alexander, AECOM

COPY: Paul DiNardo, Raytheon Technologies Corporation
Melinda Collins – Delavan Spray Technologies
AECOM Project File 60314964/60629985

RE: Fall 2020 Residential Sampling Activities and Results
Delavan Spray LLC
Bamberg, South Carolina
VCC 13-4762-RP

DATE: March 5, 2021

This Technical Memorandum presents the sampling activities and results for the residential well sampling conducted in the vicinity of the Delavan Spray Technologies Site ("Delavan"), a Delavan Spray LLC manufacturing facility located at 4334 Main Highway in Bamberg, South Carolina. The work described herein was completed by AECOM Technical Services, Inc. (AECOM) on behalf of Delavan Spray LLC, a Raytheon Technologies Corporation company.

Background

AECOM and Raytheon Technologies Corporation (formerly United Technologies Corporation) participated in a teleconference with the South Carolina Department of Health and Environmental Control (SCDHEC) on December 15, 2017 regarding the activities scoped in the *Limestone Aquifer Groundwater Assessment Work Plan* (AECOM, October 13, 2017). During the call and as documented in follow-up correspondence dated December 18, 2017, SCDHEC requested the sampling of select private wells along Lemon Creek and Orange Grove Roads. Subsequently, residential well sampling activities were conducted and documented in two separate technical memoranda entitled *Residential Sampling Activities and Results* and submitted to SCDHEC on February 15, 2018 and June 4, 2018.

In 9 of the 27 residential well samples collected between January 4, 2018 and April 19, 2019, PCE was detected at low levels below its USEPA MCL of 5 micrograms per liter (µg/L). Eight of the residential wells with PCE detections are used for drinking water and one is used for irrigation water for a pond. PCE was not detected in the remaining residential well samples (AECOM, February 2018, June 2018).

Although the PCE detections in the residential wells were well below the MCL, Delavan offered to install granular activated carbon (GAC) treatment units at no cost to the residents whose drinking water wells had detections of PCE. All 8 residents with the PCE detections in water wells used for drinking water elected to have GAC units installed. The GAC treatment units were installed in July 2018 and treatment verification sampling was completed in August and September 2018. A technical memorandum documenting the installation of GAC treatment systems was submitted to SCDHEC on January 15, 2019.

As documented in correspondence from SCHDEC dated June 27, 2018, it was agreed that impacted private wells with GAC units would be resampled during the 2018 sampling event, and annually thereafter while the treatment systems are in place, but that the residential wells would not be added to the monitoring well network for semi-annual groundwater sampling. Additionally, Delavan elected to resample all residential wells that had previously been sampled in 2018 in order to confirm the previous results. This residential well sampling was conducted in conjunction with the semi-annual monitoring event in October 2018 and the sampling activities and results were presented in the technical memorandum *Fall 2018 Residential Sampling Activities and Results* (AECOM, January 15, 2019). Low level detections of PCE below the MCL were detected in two additional properties during the fall 2018 sampling event (343 LCR and 715 LCR). Additionally, the well at 13 LCT, which did not have a working pump on previous sampling visits, was sampled in April 2019 and had a low-level detection of PCE below the MCL. Delavan offered to install GAC systems for these residential wells and, in October 2019, three additional GAC systems were installed at well locations 13 LCT, 343 LCR, and 715 LCR.

As part of the fall 2020 semi-annual sampling, AECOM completed sampling of residential wells with GAC systems installed and the GAC contractor performed routine maintenance. The work completed and results of the sampling are discussed below.

Work Completed

On October 12, 2020, Quality Life Solutions was onsite to perform maintenance for 10 active GAC systems (13 LCT, 343 LCR, 410 LCR, 448 LCR, 546 LCR-A, 546 LCR-B, 684 LCR, 689 LCR, 715 LCR, and 743 LCR; **Figure 1**). The activated carbon for these systems was refreshed by replacing the carbon in the lead GAC tank and then switching the lagging tank to become the lead. Additionally, an O-ring was replaced on the lead GAC unit at 743 LCR and the GAC storage housing unit at 13 LCT was repaired. Note - the owner of residential well 698 LCR, which also has a GAC system installed, was contacted but the well was not sampled or serviced because the tenant had moved out and there was no power to the pump at the time of sampling. The carbon will be scheduled to be refreshed on this system once the property owner reconnects power to the well.

On October 21, 2020, AECOM collected groundwater samples from 10 residential wells with active GAC systems. (**Figure 1**). All 10 well samples were collected pre- and post-treatment to evaluate the effectiveness of the GAC treatment systems.

The residential wells that were sampled are presented in the inset table below along with the rationale for each sample.

Well Location	Rationale
13 LCT	Low-level PCE detection in October 2018; GAC installed in October 2019 sampled in October 2020 to verify performance

Well Location	Rationale
343 LCR	Low-level PCE detection in October 2018; GAC installed in October 2019; sampled in October 2020 to verify performance
410 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2020 to verify performance
448 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2020 to verify performance
546 LCR-A	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2020 to verify performance
546 LCR-B	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in in October 2020 to verify performance
684 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2020 to verify performance
689 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2020 to verify performance
715 LCR	Low-level PCE detection in April 2019; GAC installed in October 2019; sampled in October 2020 to verify performance
743 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2020 to verify performance

For each sample, the faucet or sample port was purged for at least five (5) minutes prior to residential groundwater sample collection. Immediately before sample collection, field parameters were measured with a YSI water quality meter and recorded on the Residential Water Well Sampling Logs included in **Attachment 1**.

Upon collection, all groundwater samples were labeled, preserved on ice, and kept under chain-of-custody protocol with the associated trip blanks 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 **Attachment 1**. Residential well groundwater samples were analyzed for PCE, TCE, cis-1,2-DCE and vinyl chloride by USEPA Method 524. Residential groundwater samples were analyzed by Pace

Analytical (formerly Shealy Environmental Services, Inc.), a South Carolina-certified laboratory located in West Columbia, South Carolina.

Results

The laboratory analytical data packages and data assessment reports (DARs) are included as **Attachments 2 and 3**, respectively. A summary table of the sampling results is included as **Table 1** and trip blank results are provided in **Table 2**. A map of the Site vicinity illustrating the properties visited and residential sampling results along with the October 2020 PCE groundwater concentrations from site monitoring wells is included as **Figure 2**.

Groundwater samples were collected from 10 residential wells during the Fall 2020 monitoring event (**Table 1 and Figure 2**). PCE was detected in pre-treatment groundwater samples from 3 residential wells (546 LCR-A, 689 LCR, and 715 LCR). Consistent with the prior residential well sampling, all PCE detections were low concentrations; the highest detection in Fall 2020 was 0.49 J (estimated) µg/L, significantly below the MCL for PCE (5 µg/L). No detections were found in the post-treatment samples, indicating the GAC systems are working as intended. No other compounds were detected in samples from residential wells in October 2020.

References

AECOM, October 13, 2017. *Limestone Aquifer Assessment Work Plan, Delavan Spray Technologies Site, Bamberg, South Carolina*.

AECOM, February 15, 2018. *Technical Memorandum – Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina.*

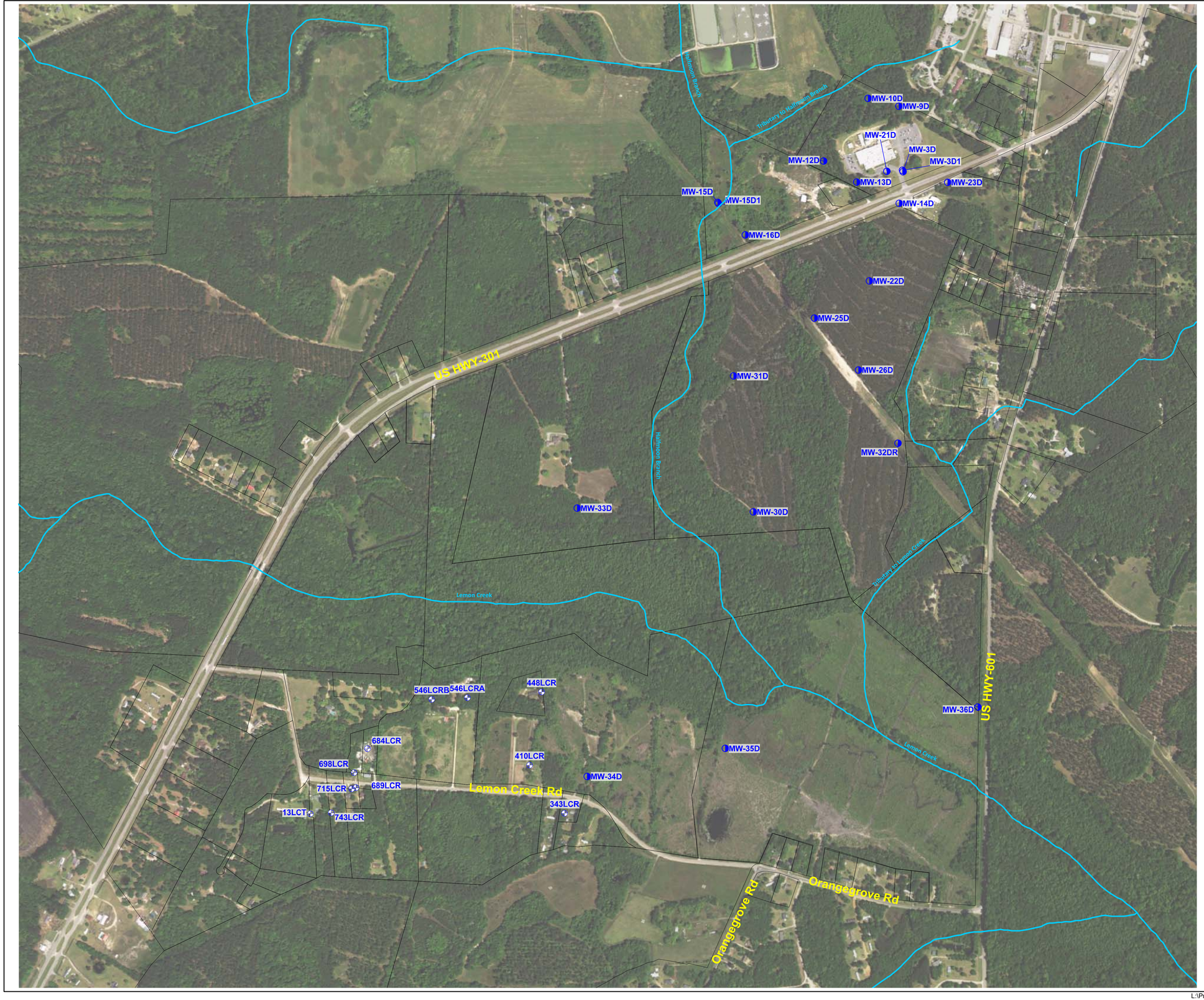
AECOM, June 4, 2018. *Technical Memorandum – Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina.*

AECOM, 2019. *Technical Memorandum - GAC Filter Installation Activities and Residential Well Sampling, Results,* Delavan Spray LLC, Bamberg, South Carolina, VCC 13-4762-RP. January 15.

AECOM, June 12, 2019. *Technical Memorandum – Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina.*

AECOM, February 21, 2020. *Technical Memorandum – Fall 2019 Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina*

Figures



LEGEND

438BBR	Well Sample ID
	Residential Well Sample Location
	Deep Monitoring Well
	Property Boundary
	Surface Water

Notes:
1) Location 698 LCR was not sampled in October 2020 because there is no power to the pump at this location.
2) Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
3) Imagery obtained from the USGS, The Nation map orthoimagery https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map.

N

0 400 800
FEET

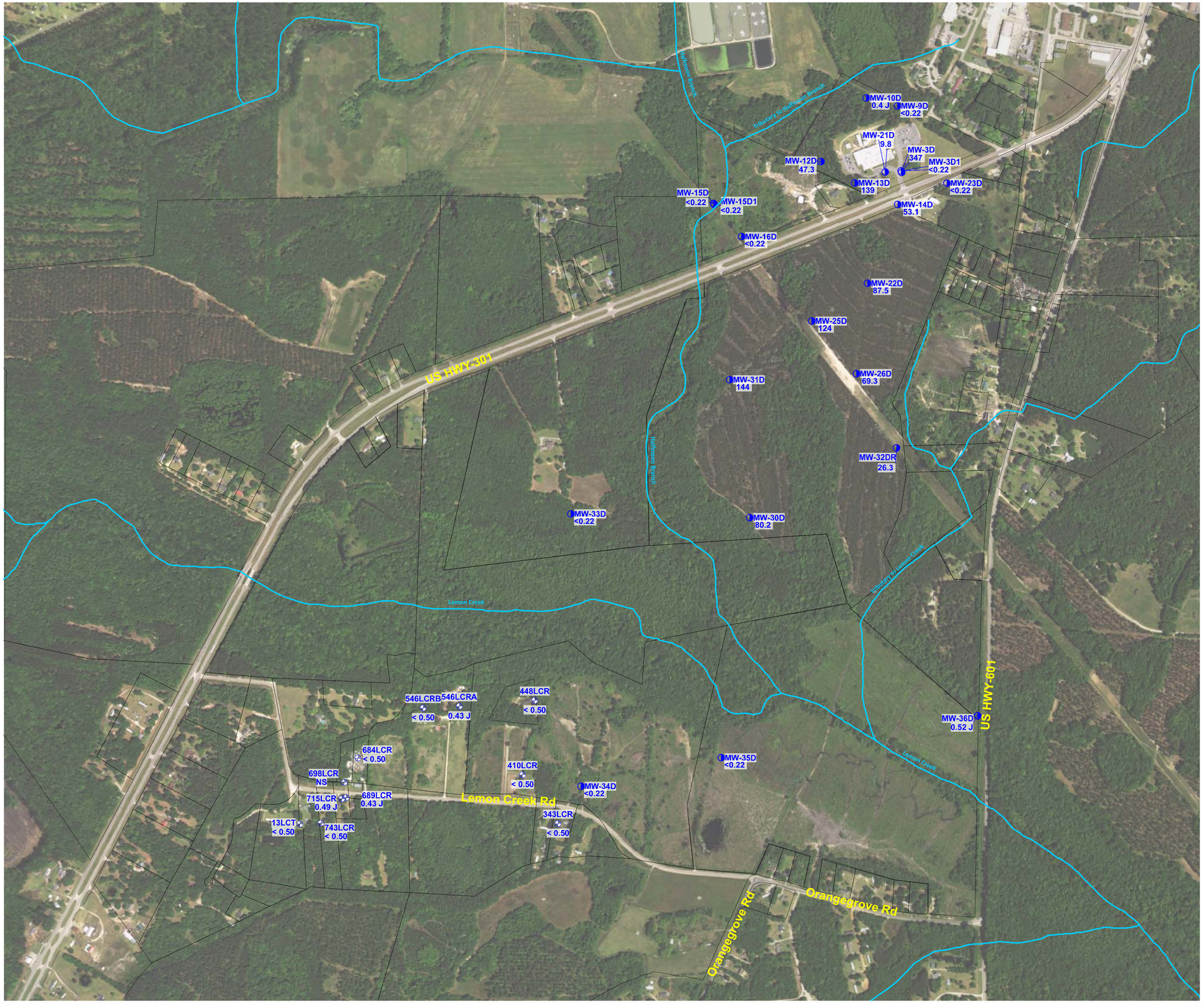
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Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

Project No.	Prepared by	Date	
60629985	L. Alexander	March 2021	Figure 1

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2020 Plume maps\Residential Properties Samples PCE October 2020.srf



LEGEND

438BBR	Well Sample ID
	Residential Well Sample Location
	Deep Monitoring Well
	Property Boundary
	Surface Water
	PCE Isoconcentration Contour - October 2020 (µg/L)
< 0.5	PCE Concentration - October 2020 (µg/L)

Notes:
µg/L - micrograms per liter
PCE - Tetrachloroethene
1) Location 698 LCR was not sampled in October 2020 because there is no power to the pump at this location.
2) Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
3) Imagery obtained from the USGS, The Nation map orthoimagery https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map.

N

0 400 800
FEET

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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Concentrations in Residential Groundwater Samples – October 2020

Project No.	Prepared by	Date	
60629985	L. Alexander	March 2021	Figure 2

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2020 Plume maps\Residential Properties Samples PCE October 2020.srf

Tables

Table 1
Summary of Analytical Results in Residential Wells
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID	MCL	13 LCT-Pre	13 LCT-Post	343 LCR-Pre	343 LCR-Post	410 LCR-Pre	410 LCR-Post
		VJ22079-002	VJ22079-003	VJ22079-016	VJ22079-017	VJ22079-018	VJ22079-019
Date Collected		10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20
Volatile Organic Compounds by Method 524.2 (µg/L)							
cis-1,2-Dichloroethene	70	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Sample ID	MCL	448 LCR-Pre	448 LCR-Post	546 LCR-A-Pre	546 LCR-A-Post	546 LCR-B-Pre	546 LCR-B-Post
		VJ22079-020	VJ22079-021	VJ22079-012	VJ22079-013	VJ22079-014	VJ22079-015
Date Collected		10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20
Volatile Organic Compounds by Method 524.2 (µg/L)							
cis-1,2-Dichloroethene	70	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	5	< 0.5	< 0.5	**0.43 J**	< 0.5	< 0.5	< 0.5
Trichloroethene	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Sample ID	MCL	684 LCR-Pre	684 LCR-Post	689 LCR-Pre	689 LCR-Post	715 LCR-Pre	715 LCR-Post
		VJ22079-010	VJ22079-011	VJ22079-008	VJ22079-009	VJ22079-006	VJ22079-007
Date Collected		10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20
Volatile Organic Compounds by Method 524.2 (µg/L)							
cis-1,2-Dichloroethene	70	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	5	< 0.5	< 0.5	**0.43 J**	< 0.5	**0.49 J**	< 0.5
Trichloroethene	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Sample ID	MCL	743 LCR-Pre	743 LCR-Post
		VJ22079-004	VJ22079-005
Date Collected		10/21/20	10/21/20
Volatile Organic Compounds by Method 524.2 (µg/L)			
cis-1,2-Dichloroethene	70	< 0.5	< 0.5
Tetrachloroethene	5	< 0.5	< 0.5
Trichloroethene	5	< 0.5	< 0.5
Vinyl chloride	2	< 0.5	< 0.5

Notes:

The "-PRE" indicates the sample was collected from the port before GAC treatment system and the "-POST" sample indicates the was collected from the port after the GAC treatment system.

Bold font and shading indicates the concentration is detected.

µg/L - micrograms per liter

MCL - Maximum Contaminant Level (USEPA, March 2018).

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

Table 2
Summary of Trip Blank Results
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID **Date Collected**	MCL	Trip Blank VJ22079-001 10/21/20
Volatile Organic Compounds by Method 524.2 (µg/L)		
cis-1,2-Dichloroethene	70	< 0.5
Tetrachloroethene	5	< 0.5
Trichloroethene	5	< 0.5
Vinyl chloride	2	< 0.5

Notes:

µg/L - micrograms per liter

MCL - Maximum Contaminant Level (USEPA, March 2018).

Attachment 1

Field Documentation

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number: 60684955
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 SN: Prof10 3732
Turbidity Meter Model/SN: 20150345T
Additional Equipment SN:
Date: 10-21-2020

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
Barametric Pressure	761.5		0730	mmHg
Temperature (Saturated Air)	20.5	20.7	0730	C
Temperature (Calibration Solution)	22.0	22.4	0750	C
DO	7.57	8.98	0730	mg/L
pH 7	7.13	7.02	0738	SU
pH 4	4.05	4.00	0742	SU
pH 10	10.05	10.03	0746	SU
Specific Conductance	1.27	1.28	0734	mS/cm
ORP	236.9	237.5	0750	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: (Yes) No (circle one)

④ UTC Delavan Bamberg SC

10-21-2020

0645 leave for sites

0720 purchase ice for crew Bamberg

0730 on site - calibrate YSI pro plus water quality meter S/N 3732

0800 at MW-36D begin to micro purge w/ peristaltic pump

0828 Sampled MW-36D

0855 at MW-12D begin to micro purge readings every 10 minutes until stabilize then every 5 minutes Ph & Cond. usually high then stabilizes after 4-5 goals

0958 sampled MW-12D

1010 at MW-27 begin to micro purge

1048 sampled MW-27

1058 at MW-13D begin to micro purge

1130 sampled MW-13D

1145 empty purge water

1200 collect Hydrous IDW sample

1215 prepare to collect Surface water samples

1240 at SW-01-LC collect sample under the bridge

1300 at SW-04-TLC collect sample out of 2nd ditch in powerline right away almost dry found small flow

⑤ UTC Delavan Bamberg SC

10-21-2020

1315 at SW-02-LC collect sample under bridge

1330 at SW-03-HMB collect sample out of stream, near culvert.

1345 at UTC Bamberg to pack samples for Fed EX to pick up - need additional ice - plan to purchase ice

finishing packing samples

1430 relinquish Samples - shipping dept.

Begin to collect residential samples

1445 at 13LCT to collect Pre & Post the bldg is falling Apart - could not repair

~~1450 at~~ Rm

1505 at 743LCR to collect Pre & Post

1515 at 715 LCR " "

1523 at 689 LCR " "

1530 at 684 LCR " "

1545 at 546 LCRA " "

1600 at 546 LCRB " "

doors are off bldg repaired

1610 at 343 LCR to collect Pre & Post

1630 at 310 LCR " "

doors are off bldg - repaired

1640 at 448 LCR to collect Pre & Post

Sampling event is now complete.

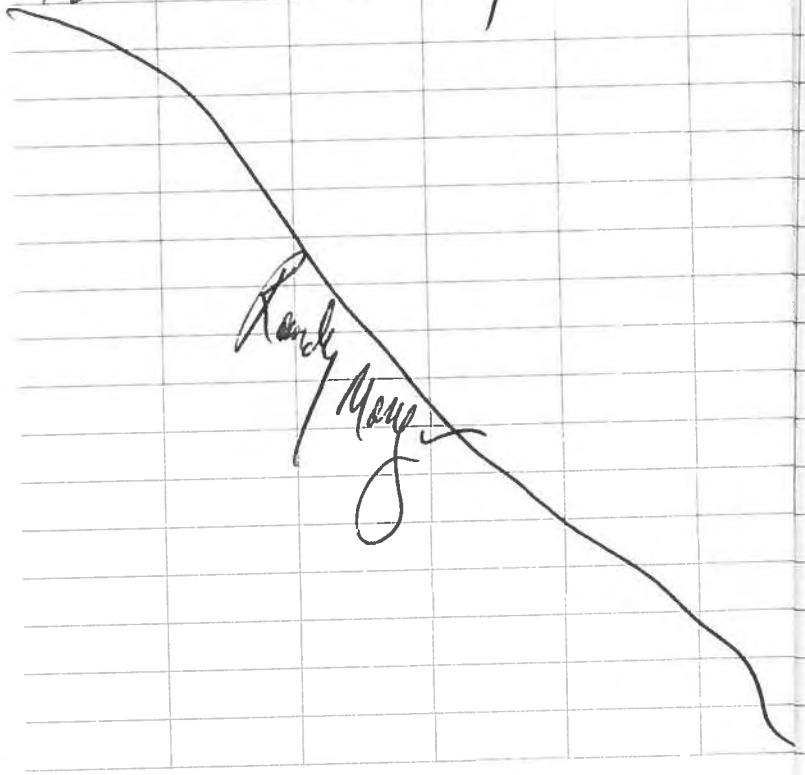
(6)

10-21-20 UTC Delaven

1700 off site - samples stored on ice in secure location - will deliver to Pace/Sheely labs in West Columbia on 10-22-2020 then return to Greenville SC to return equipment.

1735 at motel to complete COC and log book.

1830 end of the day



AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10-21-2020

Project Number: 60314964 **Sampling Personnel:** Randy Morgan / M. Rockwell

Sample Identification: 13-LCT

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 13 Lauren Ct

Property Owners Name: Allen & Mary Hooker

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.226	0.226
Temperature (°C):	22.0°	21.6°
ORP (mV):	46.5	52.6
DO (mg/L):	4.46	1.60
Turbidity (NTU):	6.36	2.41
pH (s.u.):	7.37	7.26
Sample Time	1445	1450

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: back left of house

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through Filters

Evacuation Method: valve - sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

Pre = #1 tank @ 1445
Post = #2 tank @ 1450

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan / M. Rockwell

Sample Identification: 743-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 743 Lemon Creek Rd

Property Owners Name: Raymond Taylor

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.219	0.221
Temperature (°C):	21.0	21.3
ORP (mV):	63.0	72.0
DO (mg/L):	4.34	2.49
Turbidity (NTU):	2.24	2.48
pH (s.u.):	7.36	7.23
Sample Time	1505	1510

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: far back right of house

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Past through Filters

Evacuation Method: Sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:
PRE @ 1505
POST @ 1510

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan | M. Rockwell

Sample Identification: 715-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 715 Lemon Creek Rd

Property Owners Name: April Campbell

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.227	0.228
Temperature (°C):	22.1°	22.7°
ORP (mV):	79.0	96.1
DO (mg/L):	3.92	3.47
Turbidity (NTU):	3.30	2.74
pH (s.u.):	7.39	7.29
Sample Time	1515	1520

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: front left of house

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Sketch Map (show road, driveway, house, and well):

Location/Description of Sampling Point: Pre - Raw water
Post - Past through filters

Evacuation Method: sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

Pre @ 1515
Post @ 1520

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan | M. Rockwell

Sample Identification: 689-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 689 lemon creek rd.

Property Owners Name: Martha Clayton Banfield

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.227	0.223
Temperature (°C):	19.7	20.1
ORP (mV):	99.1	101.6
DO (mg/L):	7.27	7.43
Turbidity (NTU):	0.01	1.45
pH (s.u.):	7.47	7.39
Sample Time	1523	1528

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: front right of house

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through filters

Evacuation Method: Sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:
Pre @ 1523
Post @ 1528

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** M. Rockwell | R. Morgan

Sample Identification: 684-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 684 Lemon Creek Rd

Property Owners Name: _____

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.221	0.220
Temperature (°C):	22.1	22.6
ORP (mV):	66.3	75.9
DO (mg/L):	4.84	4.41
Turbidity (NTU):	0.69	0.01
pH (s.u.):	7.55	7.41
Sample Time	1530	1535

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: far back, near shed/barn

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through filters

Evacuation Method: sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

Pre @ 1530
Post @ 1535

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan / M. Rockwell

Sample Identification: 546-LRC-A

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 546 Lemon Creek Rd.

Property Owners Name: Donald Kirby

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.229	0.228
Temperature (°C):	20.2	20.5
ORP (mV):	69.2	81.7
DO (mg/L):	5.41	3.24
Turbidity (NTU):	0.00	0.00
pH (s.u.):	7.61	7.37
Sample Time	1545	1550

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: in permanent shed/building

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through filters

Evacuation Method: Sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

Pre @ 1545
Post @ 1550

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan / M. Rockwell

Sample Identification: 546-LRC-B

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 546 Lemon Creek Rd.

Property Owners Name: Donald Kirby

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.228	0.228
Temperature (°C):	22.7	22.1
ORP (mV):	81.2	94.0
DO (mg/L):	1.80	2.34
Turbidity (NTU):	0.00	0.00
pH (s.u.):	7.46	7.45
Sample Time	1600	1605

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: Woods, left of house

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through filters

Evacuation Method: sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

Pre @ 1600
Post @ 1605

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan / M. Rockwell

Sample Identification: 343-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 343 Lemon Creek Rd

Property Owners Name: Robert Jamison

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.236	0.235
Temperature (°C):	19.3°	20.6
ORP (mV):	81.8	97.6
DO (mg/L):	4.81	15.4
Turbidity (NTU):	7.18	0.00
pH (s.u.):	7.48	7.40
Sample Time	1610	1615

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: back right of house

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through Altec's

Evacuation Method: sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

*water was off upon arrival *

Pre @ 1610
Post @ 1615

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan | M. Rockwell

Sample Identification: 410-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 410 Lemon Creek Rd

Property Owners Name: David & Jess Cooley

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.237	0.240
Temperature (°C):	20.2°	23.9°
ORP (mV):	71.1	73.2
DO (mg/L):	5.02	3.87
Turbidity (NTU):	0.69	0.00
pH (s.u.):	7.56	7.48
Sample Time	1630	1635

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: _____

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through filters

Evacuation Method: Sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks:

Pre @ 1630
Post @ 1635

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 10/21/20

Project Number: 60314964 **Sampling Personnel:** R. Morgan | M. Rockwell

Sample Identification: 448-LCR

Map Reference Number: NA

Time Sampling Began: _____ **Time Sampling Ended:** _____

Sampling Address: 448 Lemon Creek Rd.

Property Owners Name: Michelle Sanders

Property Owners Address (if different from sampling site):
NA

Conductivity (mS/cm):	0.230	0.232
Temperature (°C):	20.9°	21.9°
ORP (mV):	57.1	55.0
DO (mg/L):	5.40	3.38
Turbidity (NTU):	0.00	0.00
pH (s.u.):	7.60	7.45
Sample Time	1640	1645

Renters Name (if Applicable): _____

House Construction Type: _____

Well Location Description: right of house

Sketch Map (show road, driveway, house, and well):

Well Construction Specifications (attach well log if available): NA

Description of pump, pressure tank, water treatment, etc. NA

Location/Description of Sampling Point: Pre - Raw water
Post - Post through filters

Evacuation Method: Sample port

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	HCl

Remarks: Pre @ 1640
Post @ 1645

AECOM

Chain of Custody and Analytical Request

Page: 1 of 2
Project Number: ~~60691893.02~~
Chain of Custody Number [1]: 60679985
LIMS Number:

Project Name / Location: Delevan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride	Quality Assurance Samples: COMMENTS	Cooler ID
Trip Blank	21-Oct-2020			X		Drinking water	X	X	X	X	*by USEPA drinking water method 524	
13LCT-Pre	21-Oct-2020	1445		X			X	X	X	X		
13LCT-Post	21-Oct-2020	1450		X			X	X	X	X		
743LCR-Pre	21-Oct-2020	1505		X			X	X	X	X		
743LCR-Post	21-Oct-2020	1510		X			X	X	X	X		
715LCR-Pre	21-Oct-2020	1515		X			X	X	X	X		
715LCR-Post	21-Oct-2020	1520		X			X	X	X	X		
689LCR-Pre	21-Oct-2020	1523		X			X	X	X	X		
689LCR-Post	21-Oct-2020	1528		X			X	X	X	X		
684LCR-Pre	21-Oct-2020	1530		X			X	X	X	X		
684LCR-Post	21-Oct-2020	1535		X			X	X	X	X		
546LCR-A-Pre	21-Oct-2020	1545		X			X	X	X	X		
546-LCR-A Post	21-Oct-2020	1550		X			X	X	X	X		
546LCR-B-Pre	21-Oct-2020	1600		X			X	X	X	X		
546LCR-B-Post	21-Oct-2020	1605		X			X	X	X	X		

VJ22079
NMS

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1.	Randy Morgan	10-22-2020	0710			
2.						
3.					10/22/20	0710

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: XXXX
Method of Shipment:
Analytical Lab: Pace / Shealy Environmental lal
Lab Recipient:

Shipped:
Airbill #:
Location: West Columbia, sc
Date: Time:

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

T= 1.4 °C

AECOM

Chain of Custody and Analytical Request

Page: 2 of 2
Project Number: ~~60661883.02~~
Chain of Custody Number [1]: 60629985
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) [hh:mm]	See Comments: COMP	GRAB	Well	Sample Information	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride								COMMENTS	Cooler ID
343 LCR-Pre	21-Oct-2020	1610		X		Drinking water	X	X	X	X								*by USEPA drinking water method 524	
343 LCR-Post	21-Oct-2020	1615		X			X	X	X	X									
410 LCR-Pre	21-Oct-2020	1630		X			X	X	X	X									
410 LCR-Post	21-Oct-2020	1635		X			X	X	X	X									
448 LCR-Pre	21-Oct-2020	1640		X			X	X	X	X									
448 LCR-Post	21-Oct-2020	1645		X			X	X	X	X									

VJ22079

NWS

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-22-2020	0710			
2.						
3.					10/22/20	0710

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: XXXX
Shipped:
Method of Shipment:
Airbill #:
Analytical Lab: Pace / Shealy Environmental lat
Location: West Columbia, sc
Lab Recipient:
Date: Time:

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

T= 1.4°C

527-45-admin project control/project forms/Blank COC

Attachment 2

Laboratory Analytical Report

Report of Analysis

AECOM
10 Patewood Drive
Building 6, Suite 500
Greenville, SC 29615
Attention: Doria Cullom

Project Name: Delavan Spray Technologies, Bamberg, SC

Project Number: 60629985

Lot Number:**VJ22079**

Date Completed:11/04/2020

N. Saikaly

11/12/2020 5:54 AM
Approved and released by:
Project Manager II: **Nisreen Saikaly**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
AECOM
Lot Number: VJ22079

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

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

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

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

Sample Summary

AECOM

Lot Number: VJ22079

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Trip Blank	Aqueous	10/21/2020	10/22/2020
002	13 LCT-Pre	Aqueous	10/21/2020 1445	10/22/2020
003	13 LCT-Post	Aqueous	10/21/2020 1450	10/22/2020
004	743 LCR-Pre	Aqueous	10/21/2020 1505	10/22/2020
005	743 LCR-Post	Aqueous	10/21/2020 1510	10/22/2020
006	715 LCR-Pre	Aqueous	10/21/2020 1515	10/22/2020
007	715 LCR-Post	Aqueous	10/21/2020 1520	10/22/2020
008	689 LCR-Pre	Aqueous	10/21/2020 1523	10/22/2020
009	689 LCR-Post	Aqueous	10/21/2020 1528	10/22/2020
010	684 LCR-Pre	Aqueous	10/21/2020 1530	10/22/2020
011	684 LCR-Post	Aqueous	10/21/2020 1535	10/22/2020
012	546 LCR-A-Pre	Aqueous	10/21/2020 1545	10/22/2020
013	546 LCR-A-Post	Aqueous	10/21/2020 1550	10/22/2020
014	546 LCR-B-Pre	Aqueous	10/21/2020 1600	10/22/2020
015	546 LCR-B-Post	Aqueous	10/21/2020 1605	10/22/2020
016	343 LCR-Pre	Aqueous	10/21/2020 1610	10/22/2020
017	343 LCR-Post	Aqueous	10/21/2020 1615	10/22/2020
018	410 LCR-Pre	Aqueous	10/21/2020 1630	10/22/2020
019	410 LCR-Post	Aqueous	10/21/2020 1635	10/22/2020
020	448 LCR-Pre	Aqueous	10/21/2020 1640	10/22/2020
021	448 LCR-Post	Aqueous	10/21/2020 1645	10/22/2020

(21 samples)

Detection Summary

AECOM

Lot Number: VJ22079

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	715 LCR-Pre	Aqueous	Tetrachloroethene	524.2	0.49	J	ug/L	10
008	689 LCR-Pre	Aqueous	Tetrachloroethene	524.2	0.43	J	ug/L	12
012	546 LCR-A-Pre	Aqueous	Tetrachloroethene	524.2	0.43	J	ug/L	16

(3 detections)

Volatile Organic Compounds by GC/MS

Client: AECOM
Description: Trip Blank
Date Sampled: 10/21/2020
Date Received: 10/22/2020

Laboratory ID: VJ22079-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1630	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	70-130
1,2-Dichlorobenzene-d4		93	70-130

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

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 13 LCT-Pre
Date Sampled: 10/21/2020 1445
Date Received: 10/22/2020

Laboratory ID: VJ22079-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1656	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		88	70-130

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

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

Volatile Organic Compounds by GC/MS

Client: AECOM
Laboratory ID: VJ22079-003
Description: 13 LCT-Post
Matrix: Aqueous
Date Sampled: 10/21/2020 1450
Date Received: 10/22/2020

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1721	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		90	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 743 LCR-Pre
Date Sampled: 10/21/2020 1505
Date Received: 10/22/2020

Laboratory ID: VJ22079-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1747	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		88	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 743 LCR-Post
Date Sampled: 10/21/2020 1510
Date Received: 10/22/2020

Laboratory ID: VJ22079-005
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1814	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichlorobenzene-d4		89	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 715 LCR-Pre
Date Sampled: 10/21/2020 1515
Date Received: 10/22/2020

Laboratory ID: VJ22079-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1840	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	0.49	J	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichlorobenzene-d4		93	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 715 LCR-Post
Date Sampled: 10/21/2020 1520
Date Received: 10/22/2020

Laboratory ID: VJ22079-007
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1905	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		91	70-130
1,2-Dichlorobenzene-d4		90	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 689 LCR-Pre
Date Sampled: 10/21/2020 1523
Date Received: 10/22/2020

Laboratory ID: VJ22079-008
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1932	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	0.43	J	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		90	70-130
1,2-Dichlorobenzene-d4		91	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 689 LCR-Post
Date Sampled: 10/21/2020 1528
Date Received: 10/22/2020

Laboratory ID: VJ22079-009
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 1958	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		91	70-130
1,2-Dichlorobenzene-d4		90	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 684 LCR-Pre
Date Sampled: 10/21/2020 1530
Date Received: 10/22/2020

Laboratory ID: VJ22079-010
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/02/2020 2024	TML		71986

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		88	70-130
1,2-Dichlorobenzene-d4		91	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 684 LCR-Post
Date Sampled: 10/21/2020 1535
Date Received: 10/22/2020

Laboratory ID: VJ22079-011
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1131	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		91	70-130
1,2-Dichlorobenzene-d4		86	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 546 LCR-A-Pre
Date Sampled: 10/21/2020 1545
Date Received: 10/22/2020

Laboratory ID: VJ22079-012
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1157	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	0.43	J	0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		90	70-130
1,2-Dichlorobenzene-d4		83	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 546 LCR-A-Post
Date Sampled: 10/21/2020 1550
Date Received: 10/22/2020

Laboratory ID: VJ22079-013
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1223	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		85	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 546 LCR-B-Pre
Date Sampled: 10/21/2020 1600
Date Received: 10/22/2020

Laboratory ID: VJ22079-014
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1248	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		91	70-130
1,2-Dichlorobenzene-d4		90	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 546 LCR-B-Post
Date Sampled: 10/21/2020 1605
Date Received: 10/22/2020

Laboratory ID: VJ22079-015
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1314	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		87	70-130
1,2-Dichlorobenzene-d4		87	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 343 LCR-Pre
Date Sampled: 10/21/2020 1610
Date Received: 10/22/2020

Laboratory ID: VJ22079-016
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1341	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		87	70-130
1,2-Dichlorobenzene-d4		86	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 343 LCR-Post
Date Sampled: 10/21/2020 1615
Date Received: 10/22/2020

Laboratory ID: VJ22079-017
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1407	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		87	70-130
1,2-Dichlorobenzene-d4		87	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 410 LCR-Pre
Date Sampled: 10/21/2020 1630
Date Received: 10/22/2020

Laboratory ID: VJ22079-018
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1434	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		91	70-130
1,2-Dichlorobenzene-d4		85	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 410 LCR-Post
Date Sampled: 10/21/2020 1635
Date Received: 10/22/2020

Laboratory ID: VJ22079-019
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1459	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		88	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 448 LCR-Pre
Date Sampled: 10/21/2020 1640
Date Received: 10/22/2020

Laboratory ID: VJ22079-020
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1525	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		90	70-130
1,2-Dichlorobenzene-d4		86	70-130

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

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Volatile Organic Compounds by GC/MS

Client: AECOM
Description: 448 LCR-Post
Date Sampled: 10/21/2020 1645
Date Received: 10/22/2020

Laboratory ID: VJ22079-021
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	11/03/2020 1551	TML		72074

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
cis-1,2-Dichloroethene	156-59-2	524.2	ND		0.50	0.40	ug/L	1
Tetrachloroethene	127-18-4	524.2	ND		0.50	0.40	ug/L	1
Trichloroethene	79-01-6	524.2	ND		0.50	0.40	ug/L	1
Vinyl chloride	75-01-4	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		87	70-130

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

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ71986-001
Batch: 71986
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
cis-1,2-Dichloroethene	ND		1	0.50	0.40	ug/L	11/02/2020 1353
Tetrachloroethene	ND		1	0.50	0.40	ug/L	11/02/2020 1353
Trichloroethene	ND		1	0.50	0.40	ug/L	11/02/2020 1353
Vinyl chloride	ND		1	0.50	0.40	ug/L	11/02/2020 1353

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichlorobenzene-d4		92	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ71986-002
Batch: 71986
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
cis-1,2-Dichloroethene	5.0	4.9		1	98	70-130	11/02/2020 1302
Tetrachloroethene	5.0	5.2		1	104	70-130	11/02/2020 1302
Trichloroethene	5.0	4.9		1	97	70-130	11/02/2020 1302
Vinyl chloride	5.0	5.5		1	110	70-130	11/02/2020 1302

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichlorobenzene-d4		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ72074-001
Batch: 72074
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
cis-1,2-Dichloroethene	ND		1	0.50	0.40	ug/L	11/03/2020 1056
Tetrachloroethene	ND		1	0.50	0.40	ug/L	11/03/2020 1056
Trichloroethene	ND		1	0.50	0.40	ug/L	11/03/2020 1056
Vinyl chloride	ND		1	0.50	0.40	ug/L	11/03/2020 1056

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichlorobenzene-d4		85	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ72074-002
Batch: 72074
Analytical Method: 524.2

Matrix: Aqueous
Prep Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
cis-1,2-Dichloroethene	5.0	5.0		1	100	70-130	11/03/2020 0952
Tetrachloroethene	5.0	5.1		1	102	70-130	11/03/2020 0952
Trichloroethene	5.0	5.1		1	102	70-130	11/03/2020 0952
Vinyl chloride	5.0	5.8		1	115	70-130	11/03/2020 0952

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichlorobenzene-d4		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

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

Chain of Custody

and

Miscellaneous Documents

AECOM

Chain of Custody and Analytical Request

Page: 1 of 2
Project Number: ~~60681883.02~~
Chain of Custody Number [1]: 60679985
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride	COMMENTS	Cooler ID
Trip Blank	21-Oct-2020			X		Drinking water	X	X	X	X	*by USEPA drinking water method 524	
13LCT-Pre	21-Oct-2020	1445		X			X	X	X	X		
13LCT-Post	21-Oct-2020	1450		X			X	X	X	X		
743LCR-Pre	21-Oct-2020	1505		X			X	X	X	X		
743LCR-Post	21-Oct-2020	1510		X			X	X	X	X		
715LCR-Pre	21-Oct-2020	1515		X			X	X	X	X		
715LCR-Post	21-Oct-2020	1520		X			X	X	X	X		
689LCR-Pre	21-Oct-2020	1523		X			X	X	X	X		
689LCR-Post	21-Oct-2020	1528		X			X	X	X	X		
684LCR-Pre	21-Oct-2020	1530		X			X	X	X	X		
684LCR-Post	21-Oct-2020	1535		X			X	X	X	X		
546LCR-A-Pre	21-Oct-2020	1545		X			X	X	X	X		
546LCR-A-Post	21-Oct-2020	1550		X			X	X	X	X		
546LCR-B-Pre	21-Oct-2020	1600		X			X	X	X	X		
546LCR-B-Post	21-Oct-2020	1605		X			X	X	X	X		

VJ22079
MMS

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1.	Randy Morgan	10-22-2020	0710			
2.						
3.	FedEx 5911 1002				10/22/20	0710

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: XXXX
Method of Shipment:
Analytical Lab: Pace / Shealy Environmental Ial
Lab Recipient:

Shipped:
Airbill #:
Location: West Columbia, sc
Date: Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 01-15-2004-01)

T= 1.4°C

52745/ehsm project control/ project forms/Blank COC

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AECOM

Chain of Custody and Analytical Request

Page: 2 of 2
Project Number: ~~60601881.02~~
Chain of Custody Number [1]: 60629985
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) [hh:mm]	See Comments: COMP	GRAB	Well	Sample Information	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride							COMMENTS	Cooler ID
343 LCR-Pre	21-Oct-2020	1610		X		Drinking water	X	X	X	X							*by USEPA drinking water method 524	
343 LCR-Post	21-Oct-2020	1615		X			X	X	X	X								
410 LCR-Pre	21-Oct-2020	1630		X			X	X	X	X								
410 LCR-Post	21-Oct-2020	1635		X			X	X	X	X							VJ22079	
448 LCR-Pre	21-Oct-2020	1640		X			X	X	X	X								
448 LCR-Post	21-Oct-2020	1645		X			X	X	X	X								

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-22-2020	0710			
2.						
3.					10/22/20	0710

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: XXXX
Method of Shipment:
Analytical Lab: Pace/ Shealy Environmental lat
Lab Recipient:
Shipped:
Airbill #:
Location: West Columbia, sc
Date: Time:

T= 1.4°C

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

PACE ANALYTICAL SERVICES, LLC

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C 15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: AECOM Cooler Inspected by/date: KBS / 10/22/2020 Lot #: VJ22079

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

1.4 / 1.4 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # NA

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L. (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: KBS Date: 10/22/2020

Comments:

Attachment 3

Data Assessment Report

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 Methods Data Review* (USEPA, January 2017) and *USEPA National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, January 2017). In addition, method-specific criteria set forth in the compendium of analytical methods found in the *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update V* (USEPA, July 2014) 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 VJ22079 were collected on October 21, 2020 for UTC - 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 524.2

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), July 2014. *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update V.*

United States Environmental Protection Agency (USEPA), January 2017. *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*. Publication #EPA-540-R-2017-001.

United States Environmental Protection Agency (USEPA), January 2017. *USEPA National Functional Guidelines for Organic Superfund Methods Data Review.* Publication #EPA-540-R-2017-002.

APPENDIX B

FIELD DOCUMENTATION

Equipment Calibration Logs
Water Level Data Summary
Field Data Logs for Groundwater Sampling
Field Data Logs for Surface Water/Sediment Sampling
Chain-of-Custody Forms
Daily Logbook Entries

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delaware
Project Number:
Calibrated By: M. Rockwell
Signature: M. Rockwell

YSI 556 SN:
Turbidity Meter Model/SN: 2017160899
Additional Equipment SN:
Date: 10-19-20

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
Barametric Pressure	762.4		1320	mmHg
Temperature (Saturated Air)	18.0°	20.6°	1336	C
Temperature (Calibration Solution)	20.8°	21.3°	1334	C
DO	9.1	9.1	1324	mg/L
pH 7	7.01	7.02	1326	SU
pH 4	4.02	4.01	1327	SU
pH 10	10.00	10.04	1330	SU
Specific Conductance	1276.0	1278.0	1331	mS/cm
ORP	236.7	237.4	1333	mV

MicroTPW Calibration

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

MR

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: WTC Delaware
Project Number:
Calibrated By: M. Rockwell
Signature:

YSI 556 SN:
Turbidity Meter Model/SN: 20171206g
Additional Equipment SN:
Date: 10-20-20

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
Barametric Pressure	762.3		0840	mmHg
Temperature (Saturated Air)	18.3°	21.6°	0841	C
Temperature (Calibration Solution)	20.1°	20.6°	0853	C
DO	9.3	9.1	0842	mg/L
pH 7	7.01	7.02	0844	SU
pH 4	4.00	4.00	0845	SU
pH 10	10.05	10.05	0847	SU
Specific Conductance	1268	1278	0849	mS/cm
ORP	237.0	237.4	0852	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: Yes (circle one) No	MR

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delaware
Project Number:
Calibrated By: M. Rockwell
Signature: M. Rockwell

YSI 556 SN: 18H105488
Turbidity Meter Model/SN: 20171206 9
Additional Equipment SN:
Date: 10-21-20

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
Barametric Pressure	762.0		0750	mmHg
Temperature (Saturated Air)	21.3°	22.6°	0804	C
Temperature (Calibration Solution)	19.3°	20.6°	0803	C
DO	9.2	9.1	0753	mg/L
pH 7	7.03	7.02	0755	SU
pH 4	4.01	4.01	0757	SU
pH 10	10.03	10.04	0758	SU
Specific Conductance	1270.0	1276.0	0800	mS/cm
ORP	237.0	237.4	0802	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: Yes (circle one) No	MR

YSI Pro + / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp. LAB. C :	22.1	Temp. FIELD, C :	

Conductivity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
1413 UMHO/CM @ 25°	7003107	3/21	1.28		(+/- .5%)

PH 4.00	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°	7003164	3/22	4.03		(+/- 0.2 units)

PH 7.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°	7003167	3/22	7.08		(+/- 0.2 units)

PH 10.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°	7003038	3/22	9.93		(+/- 0.2 units)

ORP ZOBELLS	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
231.0 MV @ 25°	7004132	1/21	237.5		(+/- 20 MV)

Dissolved Oxygen		Temp, C	% Saturation	mg/L	Acceptable Range
(Saturated Air)	Post-Cal, LAB	25.3	96.8	7.97	(+/- 2%) / (+/- 2%)
	Post-Cal, FIELD				

New DO Membrane: ○ Yes ⊗ No

Do Cap Color: ○ Black ◉ Blue ○ Yellow

Model: YSI - PRO PLUS S/N: 3732 Cable: N/A

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
02 NTU	89001	OCT-20	0.02		(.0196 to .0204)
10 NTU	91102	NOV-21	9.97		(9.8 to 10.2)
1000 NTU	89036	OCT-20	989.6		(970 to 1031)

Model: Micro TPW S/N: 20150345 1

Calibrated By: Eric Olson Date of Calibration: 10-16-20

Project Name: UTC Dthacan Project number: 60629985

Signed: E

REV-6, 10/31/2018 EKO

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number: 60634985
Calibrated By: Kenly Morgan
Signature: Kenly Morgan

YSI 556 SN: Pro Plus 2732
Turbidity Meter Model/SN: 20150345T
Additional Equipment SN:
Date: 10-19-2020

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
Barametric Pressure	762.6		1340	mmHg
Temperature (Saturated Air)	21.8	22.0	1340	C
Temperature (Calibration Solution)	21.3	21.2	1400	C
DO	9.96	8.72	1340	mg/L
pH 7	7.16	7.02	1348	SU
pH 4	4.03	4.00	1352	SU
pH 10	9.99	10.05	1356	SU
Specific Conductance	1.28	1.28	1344	mS/cm
ORP	237.5	237.5	1400	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: (Yes) No (circle one)

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number: 60639985
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 SN: ProPlus 3732
Turbidity Meter Model/SN: 201503451
Additional Equipment SN:
Date: 10-20-2020

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
Barametric Pressure	761.9		0740	mmHg
Temperature (Saturated Air)	17.5	17.2	0740	C
Temperature (Calibration Solution)	20.5	20.3	0800	C
DO	10.38	9.57	0740	mg/L
pH 7	7.15	7.02	0748	SU
pH 4	3.97	4.00	0752	SU
pH 10	10.03	10.05	0756	SU
Specific Conductance	1.28	1.28	0744	mS/cm
ORP	240.9	237.5	0800	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: (Yes)	No
	(circle one)	

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number: 60684955
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 SN: Prof10 3732
Turbidity Meter Model/SN: 20150345T
Additional Equipment SN:
Date: 10-21-2020

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
Barametric Pressure	761.5		0730	mmHg
Temperature (Saturated Air)	20.5	20.7	0730	C
Temperature (Calibration Solution)	22.0	22.4	0750	C
DO	7.57	8.98	0730	mg/L
pH 7	7.13	7.02	0738	SU
pH 4	4.05	4.00	0742	SU
pH 10	10.05	10.03	0746	SU
Specific Conductance	1.27	1.28	0734	mS/cm
ORP	236.9	237.5	0750	mV

MicroTPW Calibration

Calibrations performed 0.02, 10, and 1,000 NTU	Calibrations accepted: (Yes) No (circle one)

WATER LEVEL DATA SUMMARY

PROJECT: UTC Delavan Spray Technologies Site

JOB NUMBER: 60578249.01

LOCATION: Bamberg, South Carolina

DATE: 10-19-2020

CLIENT: UTC

MEASURED BY: Mariah Rockwell / Randy Morgan

SURVEY DATUM:

MEASUING 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)	COMMENTS Time
MW-1				12.27	1231
MW-2				12.20	1240
MW-3				13.89	1228
MW-3D				14.59	1229
MW-3D1				14.40	1230
MW-4				9.89	1201
MW-5				10.45	1236
MW-6				7.97	1234
MW-7				14.02	1226
MW-8				11.50	1233
MW-9				7.77	1223
MW-9D				10.13	1221
MW-10				7.40	1220
MW-10D				7.96	1219
MW-11				8.18	1214
MW-12D				14.14	1138
MW-13D				12.85	1134
MW-14				12.15	1117
MW-14D				13.48	1116
MW-15				4.13	1400
MW-15D				2.53	1449
MW-15D1			2.68	~~7.20~~ RM	1525
MW-16				5.15	1156
MW-16D				5.45	1157
MW-17				5.40	1206
MW-18				10.95	1203

Notes:

BTOC - Below Top of Casing MSL - Mean Sea Level TOC - Top of Casing LLMH - Lower Lip of Man Hole

WATER LEVEL DATA SUMMARY

PROJECT: UTC Delavan Spray Technologies Site
JOB NUMBER: 60578249.01
LOCATION: Bamberg, South Carolina
DATE: 10-19-2020
CLIENT: UTC
MEASURED BY: Randy Morgan / M. Rockwell
SURVEY DATUM:
MEASUING 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)	COMMENTS / Time
MW-19				13.21	1247
MW-20				12.96	1257
MW-21				13.34	1241
MW-21D				13.35	1239
MW-22D				12.70	1046
MW-23D				14.63	1123
MW-24				14.14	1237
MW-25D				6.08	1052
MW-26D				10.63	1049
MW-27				10.64	1150
MW-28				12.65	1142
MW-29				7.16	1146
MW-30D				5.00	1100
MW-31D				9.16	1058
MW-32DR				7.04	1110
MW-33D				13.06	1036
MW-34D				13.95	1015
MW-35D				11.81	1020
MW-36D				2.45	1130
MW-37				12.94	1254 (installed 7/2020)

Notes:
BTOC - Below Top of Casing MSL - Mean Sea Level TOC - Top of Casing LLMH - Lower Lip of Man Hole

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/21/20
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-1
____ Upgradient ____ Downgradient ____ Sidegradient	X Source
Weather Conditions	Sunny
Air Temperature	76° F
Total Well Depth (TWD) =	18.00 1/100 ft
Depth to Ground Water (DGW) =	12.33 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	gal
3 Casing Volumes =	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	1.35 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	147.56 1/100 ft
Height of Riser (above land surface)	-0.37 1/100 ft
Land Surface Elevation	147.19 1/100 ft
Screened Interval	3 - 18 1/100 ft
Dedicated Pump or Bailer	YES X NO ____ Type tubing
Steel Guard Pipe Around Casing	YES ____ NO X
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:	@ 1110
Sample Analytes:	V8260TCL
Hack Fe Kit:	____ 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	0.25	0.50	0.75	1.0	1.25					
TIME (Military)	1040	1045	1050	1055	1100	1105					
Water Level (ft BTOC)	12.34	12.80	12.92	13.20	13.25	13.31					
pH (S.U.)	4.94	4.89	4.89	4.88	4.88	4.87					
Sp. Cond. (mS/cm)	0.040	0.034	0.033	0.032	0.032	0.032					
Water Temp. (°C)	24.1°	24.4°	24.5°	24.8°	24.8°	24.9°					
Turbidity (NTUs)	4.05	2.65	2.33	3.15	4.05	3.63					
DO - (mg/L)	4.33	3.80	3.74	3.86	3.76	3.81					
Salinity (ppt)	-	-	-	-	-	-					
ORP (mV)	395.4	413.8	415.4	428.1	430.2	433.9					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/20/20
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-2
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	Sunny
Air Temperature	82. ° F
Total Well Depth (TWD) =	18.00 1/100 ft
Depth to Ground Water (DGW) =	12.22 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	___ gal
3 Casing Volumes =	___ 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	1.20 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	147.63 1/100 ft
Height of Riser (above land surface)	-0.18 1/100 ft
Land Surface Elevation	147.81 1/100 ft
Screened Interval	3 - 18 1/100 ft
Dedicated Pump or Bailer	YES X NO ___ Type tubing
Steel Guard Pipe Around Casing	YES ___ NO X
Locking Cap	YES X NO ___
Protective Post/Abutment	YES ___ NO X
Well Integrity Satisfactory	YES X NO ___
Yield	LOW ___ MODERATE X HIGH ___
Comments/Observations	
Sample Time:	@ 1750
Sample Analytes:	V8260TCL
Hack Fe Kit:	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										
VOLUME PURGED (gallons)		0.3	0.55	0.80	1.10						
TIME (Military)	1725	1730	1735	1740	1745						
Water Level (ft BTOC)	12.23	12.32	12.34	12.34	12.34						
pH (S.U.)	5.22	5.08	5.08	5.07	5.08						
Sp. Cond. (mS/cm)	0.034	0.029	0.028	0.028	0.028						
Water Temp. (°C)	24.5°	24.9°	25.3°	25.3°	25.3°						
Turbidity (NTUs)	21.33	22.73	23.48	21.51	20.71						
DO - (mg/L)	3.60	1.59	1.44	1.47	1.46						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	367.2	358.4	345.5	341.6	340.3						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 20 2020
Field Personnel: Rocky Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-3
_____ Upgradient X Downgradient _____ Sidegradient _____ Source
Weather Conditions: mostly cloudy
Air Temperature: _____ ° F
Total Well Depth (TWD) = 18.00 1/100 ft
Depth to Ground Water (DGW) = 13.91 1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = _____ gal
3 Casing Volumes = _____ 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: 1.75 gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 148.11 1/100 ft
Height of Riser (above land surface): -0.23 1/100 ft
Land Surface Elevation: 148.34 1/100 ft
Screened Interval: 3 - 18 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 X NO X
Well Integrity Satisfactory: YES X NO _____
Yield: LOW _____ MODERATE _____ HIGH X
Comments/Observations
Sample Time: 1348
Sample Analytes: VOCs
Hack Fe Kit: NT 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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75					
TIME (Military)	1320	1326	1330	1335	1340	1345					
Water Level (ft BTOC)	14.03	14.16	14.25	14.31	14.33	14.34					
pH (S.U.)	4.63	4.48	4.44	4.39	4.44	4.41					
Sp. Cond. (mS/cm)	0.023	0.022	0.022	0.022	0.022	0.022					
Water Temp. (°C)	25.1	25.5	25.7	25.8	25.8	25.8					
Turbidity (NTUs)	4.48	2.71	3.23	3.23	4.84	3.23					
DO - (mg/L)	3.41	3.07	3.28	3.30	3.22	3.33					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	232.6	237.3	240.4	236.3	230.6	227.7					

COMMENTS/OBSERVATIONS _____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 20, 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-3D
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: Cloudy
Air Temperature: 72 ° F
Total Well Depth (TWD) = 49.00 1/100 ft
Depth to Ground Water (DGW) = 14.59 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 1.75 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 X NO ___ Type Typhon
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: 1418
Sample Analytes: VOCs 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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75					
TIME (Military)	1350	1355	1400	1405	1410	1415					
Water Level (ft BTOC)	14.59	14.59	14.59	14.59	14.59	14.59					
pH (S.U.)	6.32	6.76	6.98	7.16	7.27	7.30					
Sp. Cond. (mS/cm)	0.241	0.241	0.241	0.241	0.242	0.243					
Water Temp. (°C)	23.4	23.2	23.2	23.2	23.2	23.2					
Turbidity (NTUs)	28.37	10.69	9.37	4.22	5.90	8.78					
DO - (mg/L)	2.00	2.03	2.12	2.47	2.53	2.56					
Salinity (ppt)	0.11	0.11	0.11	0.11	0.11	0.11					
ORP (mV)	139.0	93.3	72.1	57.4	51.5	49.0					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/21/20
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-3D1
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	cloudy
Air Temperature	75° F
Total Well Depth (TWD) =	85.00 1/100 ft
Depth to Ground Water (DGW) =	14.43 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	___ gal
3 Casing Volumes =	___ 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	147.93 1/100 ft
Height of Riser (above land surface)	-0.19 1/100 ft
Land Surface Elevation	148.12 1/100 ft
Screened Interval	75 - 85 1/100 ft
Dedicated Pump or Bailer	YES X NO ___ Type tubing
Steel Guard Pipe Around Casing	YES ___ NO X
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	@ 0925
Sample Analytes	V8260 TCL
Hack Fe Kit	___ 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										
VOLUME PURGED (gallons)		0.30	0.60	0.90	1.20	1.50					
TIME (Military)	0856	0901	0906	0911	0916	0921					
Water Level (ft BTOC)	14.45	14.46	14.46	14.46	14.46	14.46					
pH (S.U.)	7.51	7.80	7.83	7.84	7.84	7.85					
Sp. Cond. (mS/cm)	0.209	0.212	0.213	0.214	0.214	0.215					
Water Temp. (°C)	22.9°	22.4°	22.3°	22.2°	22.3°	22.2°					
Turbidity (NTUs)	2.82	1.50	0.70	0.53	0.20	0.23					
DO - (mg/L)	0.82	0.19	0.17	0.16	0.16	0.15					
Salinity (ppt)	—	—	—	—	—	—					
ORP (mV)	70.9	32.1	-8.8	-23.4	-34.7	-35.8					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 29 2020
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-4
	X Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions	Mostly Cloudy
Air Temperature	68 ° F
Total Well Depth (TWD) =	14.00 1/100 ft
Depth to Ground Water (DGW) =	9.98 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	gal
3 Casing Volumes =	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	3.15 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	147.03 1/100 ft
Height of Riser (above land surface)	-0.27 1/100 ft
Land Surface Elevation	147.30 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 ___ MODERATE X HIGH ___
Comments/Observations	
Sample Time	1243
Sample Analytes	VOCs also Duplicate
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									
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75	2.10	2.45	2.80	3.15
TIME (Military)	1155	1200	1205	1210	1215	1220	1225	1230	1235	1240
Water Level (ft BTOC)	10.18	10.43	10.56	11.06	11.27	11.50	11.67	11.78	11.92	12.03
pH (S.U.)	4.61	4.53	4.54	4.58	4.60	4.63	4.64	4.60	4.66	4.55
Sp. Cond. (mS/cm)	0.060	0.058	0.060	0.061	0.060	0.059	0.058	0.058	0.057	0.056
Water Temp. (°C)	21.4	21.5	21.6	21.6	21.6	21.7	21.8	21.8	21.8	21.8
Turbidity (NTUs)	42.16	32.56	46.37	51.85	53.09	45.82	38.56	40.01	37.27	35.41
DO - (mg/L)	0.33	0.35	0.27	0.24	0.24	0.31	0.54	0.55	0.61	0.66
Salinity (ppt)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
ORP (mV)	235.1	235.3	91.4	79.0	68.2	64.7	84.2	110.9	123.4	133.8

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/20/20
Field Personnel	Marian Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-5
	___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions	sunny
Air Temperature	75° F
Total Well Depth (TWD) =	14.00 1/100 ft
Depth to Ground Water (DGW) =	10.52 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	___ gal
3 Casing Volumes =	___ 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	1.10 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 ___ NO X
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:	@ 1405
Sample Analytes:	V8260 TCL
Hack Fe Kit:	___ 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										
VOLUME PURGED (gallons)		0.20	0.40	0.60	0.90						
TIME (Military)	1340	1345	1350	1355	1400						
Water Level (ft BTOC)	10.60	10.68	10.72	10.76	10.77						
pH (S.U.)	5.12	5.13	5.12	5.12	5.13						
Sp. Cond. (mS/cm)	0.019	0.019	0.019	0.019	0.019						
Water Temp. (°C)	23.4°	23.5°	23.4°	23.4°	23.5°						
Turbidity (NTUs)	22.83	15.86	9.34	5.61	4.52						
DO - (mg/L)	6.07	5.76	5.60	5.68	5.70						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	435.8	443.9	434.9	436.0	438.4						

COMMENTS/OBSERVATIONS

* NO TUBING *
In well

AECOM

DATA LOG FOR GROUNDWATER SAMPLING

Page 1 of 1

Date (mo/day/yr)	10/20/20
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-6
	X Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions	Sunny
Air Temperature	76° F
Total Well Depth (TWD) =	14.00 1/100 ft
Depth to Ground Water (DGW) =	8.20 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	____ gal
3 Casing Volumes =	____ 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	1.40 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	143.22 1/100 ft
Height of Riser (above land surface)	-0.23 1/100 ft
Land Surface Elevation	143.45 1/100 ft
Screened Interval	4 - 14 1/100 ft
Dedicated Pump or Bailer	YES ~~X~~ (me) NO X Type ~~tu~~
Steel Guard Pipe Around Casing	YES ____ NO X
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:	@ 1440
Sample Analytes:	V8260 TCL
Hack Fe Kit	~~—~~ 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										
VOLUME PURGED (gallons)		0.20	0.50	0.7	0.9	1.20					
TIME (Military)	1410	1415	1420	1425	1430	1435					
Water Level (ft BTOC)	8.21	8.30	8.34	8.37	8.40	8.40					
pH (S.U.)	4.93	4.94	4.92	4.93	4.94	4.94					
Sp. Cond. (mS/cm)	0.018	0.018	0.018	0.018	0.018	0.018					
Water Temp. (°C)	23.1°	23.0°	23.1°	23.1°	23.1°	23.0°					
Turbidity (NTUs)	13.56	10.26	8.25	6.07	5.84						
DO - (mg/L)	2.27	1.81	1.17	0.79	0.72	0.61					
Salinity (ppt)	—	—	—								
ORP (mV)	376.2	380.7	394.8	389.6	381.3	372.9					

COMMENTS/OBSERVATIONS * MISSING TUBING *

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/21/20
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-7
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	Cloudy
Air Temperature	72° F
Total Well Depth (TWD) =	20.00 1/100 ft
Depth to Ground Water (DGW) =	14.05 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x	0.163 = ___ gal
3 Casing Volumes =	___ 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	1.30 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 X NO ___ Type tubing
Steel Guard Pipe Around Casing	YES ___ NO X
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	@ 0850
Sample Analytes	V8260 TCL
Hack Fe Kit	— 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	0.20	0.40	0.60	0.80	1.0	1.15				
TIME (Military)	0815	0820	0825	0830	0835	0840	0845				
Water Level (ft BTOC)	14.06	14.45	14.52	14.74	14.92	15.05	15.10				
pH (S.U.)	5.17	5.14	5.13	5.10	5.11	5.11	5.12				
Sp. Cond. (mS/cm)	0.028	0.021	0.019	0.016	0.015	0.015	0.014				
Water Temp. (°C)	23.2°	23.5°	23.5°	23.7°	23.8°	23.8°	23.8°				
Turbidity (NTUs)	4.86	5.29	3.15	1.79	2.13	2.78	3.31				
DO - (mg/L)	6.11	6.13	6.13	6.17	6.19	6.17	6.16				
Salinity (ppt)	—	—	—	—	—	—	—				
ORP (mV)	435.5	440.6	443.0	450.1	453.2	456.7	457.3				

COMMENTS/OBSERVATIONS ___

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/21/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-8
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: sunny
Air Temperature: 80. ° F
Total Well Depth (TWD) = 20.00 1/100 ft
Depth to Ground Water (DGW) = 11.55 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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 ___ 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 X NO ___ Type tubing
Steel Guard Pipe Around Casing: YES ___ NO ✓
Locking Cap: YES X NO ___
Protective Post/Abutment: YES ___ NO X
Well Integrity Satisfactory: YES X NO ___
Yield: LOW ___ MODERATE X HIGH ___
Comments/Observations
Sample Time: @ 1145
Sample Analytes: V8260 TCL
Hack Fe Kit: ✓ 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	0.2	0.4	0.65	0.85						
VOLUME PURGED (gallons)	1120	1125	1130	1135	1140						
TIME (Military)	11.56	11.58	11.92	11.95	11.96						
Water Level (ft BTOC)	4.70	4.70	4.71	4.71	4.71						
pH (S.U.)	0.071	0.072	0.072	0.072	0.071						
Sp. Cond. (mS/cm)	27.5°	27.5°	28.0°	28.1°	27.9°						
Water Temp. (°C)	811.7	20.95	3.31	2.73	2.69						
Turbidity (NTUs)	2.56	2.29	2.24	2.34	2.35						
DO - (mg/L)	—	—	—	—	—						
Salinity (ppt)	456.6	453.6	452.2	450.1	450.3						
ORP (mV)											

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr)	Oct 20, 2020
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-9
	____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions	mostly Cloudy
Air Temperature	68 ° F
Total Well Depth (TWD) =	20.00 1/100 ft
Depth to Ground Water (DGW) =	____ 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	____ gal
3 Casing Volumes =	____ 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	____ 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 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	1135
Sample Analytes	VOC's MS/MSD
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	0.35	0.70	1.05	1.40	1.75					
VOLUME PURGED (gallons)	1108	1113	1118	1123	1128	1133					
TIME (Military)	8.19	8.62	8.75	8.93	9.19	9.42					
Water Level (ft BTOC)	6.11	4.71	4.53	4.40	4.33	4.28					
pH (S.U.)	0.035	0.030	0.030	0.029	0.029	0.028					
Sp. Cond. (mS/cm)	21.3	21.6	21.7	21.7	21.7	21.8					
Water Temp. (°C)	12.43	14.21	7.53	7.03	7.21	6.81					
Turbidity (NTUs)	0.91	0.41	0.35	0.37	0.40	0.38					
DO - (mg/L)	0.02	0.01	0.01	0.01	0.01	0.01					
Salinity (ppt)	1480	167.4	166.0	167.5	175.2	185.2					
ORP (mV)											

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 20, 2020
Field Personnel	Randy Moraga
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-9D
	____ Upgradient __X__ Downgradient ____ Sidegradient ____ Source
Weather Conditions	Mostly Cloudy
Air Temperature	60s ° F
Total Well Depth (TWD) =	49.00 1/100 ft
Depth to Ground Water (DGW) =	10.15 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	____ gal
3 Casing Volumes =	____ 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	1.40 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	144.20 1/100 ft
Height of Riser (above land surface)	-0.60 1/100 ft
Land Surface Elevation	144.80 1/100 ft
Screened Interval	44 - 49 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 X HIGH ____
Comments/Observations	
Sample Time	1058
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40						
TIME (Military)	1035	1040	1045	1052	1053						
Water Level (ft BTOC)	10.18	10.16	10.17	10.17	10.17						
pH (S.U.)	7.42	7.46	7.49	7.51	7.52						
Sp. Cond. (mS/cm)	0.214	0.213	0.213	0.213	0.213						
Water Temp. (°C)	20.0	19.8	19.9	19.9	19.89						
Turbidity (NTUs)	0.53	0.10	0.33	0.41	0.01						
DO - (mg/L)	1.28	0.30	0.21	0.18	0.17						
Salinity (ppt)	0.10	0.10	0.10	0.10	0.10						
ORP (mV)	-34.3	-47.8	-52.1	-55.9	-60.4						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 20, 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-10
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions: Mostly Cloudy
Air Temperature: 58 °F
Total Well Depth (TWD) = 18.00 1/100 ft
Depth to Ground Water (DGW) = 7.49 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.75 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 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 ____
Comments/Observations
Sample Time: 0948
Sample Analytes: VOCs
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75					
TIME (Military)	0920	0925	0930	0935	0940	0945					
Water Level (ft BTOC)	7.51	7.63	7.65	7.66	7.68	7.68					
pH (S.U.)	5.97	4.98	4.71	4.56	4.50	4.48					
Sp. Cond. (mS/cm)	0.038	0.028	0.027	0.027	0.027	0.026					
Water Temp. (°C)	14.5	20.1	20.4	20.5	20.6	20.6					
Turbidity (NTUs)	13.76	8.32	8.89	7.41	4.11	3.21					
DO - (mg/L)	0.30	0.25	0.20	0.20	0.20	0.21					
Salinity (ppt)	0.02	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	30.9	2.1	5.1	11.5	13.2	12.4					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 20, 2020
Field Personnel	Kody Mayam
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-10D
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	mostly cloudy
Air Temperature	60 ° F
Total Well Depth (TWD) =	48.00 1/100 ft
Depth to Ground Water (DGW) =	7.97 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	___ gal
3 Casing Volumes =	___ 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	1.75 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	141.79 1/100 ft
Height of Riser (above land surface)	-0.29 1/100 ft
Land Surface Elevation	142.08 1/100 ft
Screened Interval	43 - 48 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 X NO X
Well Integrity Satisfactory	YES ___ NO ___
Yield	LOW ___ MODERATE X HIGH X
Comments/Observations	
Sample Time	1023
Sample Analytes	VOCs
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75					
TIME (Military)	0955	1000	1005	1010	1015	1020					
Water Level (ft BTOC)	8.00	8.00	8.00	8.00	8.00	8.00					
pH (S.U.)	6.12	6.99	7.09	7.25	7.36	7.41					
Sp. Cond. (mS/cm)	0.222	0.226	0.227	0.227	0.227	0.227					
Water Temp. (°C)	19.0	19.0	19.0	19.1	19.1	19.1					
Turbidity (NTUs)	6.50	0.93	0.71	0.01	0.00	0.00					
DO - (mg/L)	3.37	2.89	2.94	2.94	2.94	2.98					
Salinity (ppt)	0.11	0.11	0.11	0.11	0.11	0.11					
ORP (mV)	76.2	64.7	63.3	63.3	62.8	63.0					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/21/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-11
__ Upgradient X Downgradient __ Sidegradient __ Source
Weather Conditions: Cloudy
Air Temperature: 75° F
Total Well Depth (TWD) = 18.00 1/100 ft
Depth to Ground Water (DGW) = 8.19 1/100 ft
Length of Water Column (LWC) = TWD - DGW = __ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = __ gal
3 Casing Volumes = __ 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: 143.16 1/100 ft
Height of Riser (above land surface): -0.61 1/100 ft
Land Surface Elevation: 143.77 1/100 ft
Screened Interval: 3 - 18 1/100 ft
Dedicated Pump or Bailer: YES X NO __ Type Tubing
Steel Guard Pipe Around Casing: YES __ NO X
Locking Cap: YES X NO __
Protective Post/Abutment: YES __ NO X
Well Integrity Satisfactory: YES X NO __
Yield: LOW __ MODERATE X HIGH __
Comments/Observations
Sample Time: @ 1030
Sample Analytes: V8260 TCL
Hack Fe Kit: / 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										
VOLUME PURGED (gallons)		0.20	0.40	0.60	0.80	1.0	1.20	1.40			
TIME (Military)	0950	0955	1000	1005	1010	1015	1020	1025			
Water Level (ft BTOC)	8.22	8.48	8.53	8.54	8.54	8.55	8.55	8.55			
pH (S.U.)	5.53	5.21	5.18	5.18	5.19	5.18	5.19	5.19			
Sp. Cond. (mS/cm)	0.235	0.236	0.234	0.233	0.231	0.231	0.230	0.230			
Water Temp. (°C)	20.3°	20.1°	20.2°	20.3°	20.4°	20.4°	20.4°	20.5°			
Turbidity (NTUs)	402.9	83.29	63.99	40.60	36.69	38.31	36.57	35.78			
DO - (mg/L)	3.21	0.50	0.24	0.21	0.21	0.19	0.19	0.18			
Salinity (ppt)	-	-	-	-	-	-	-	-			
ORP (mV)	161.0	212.9	228.6	235.8	243.0	244.6	247.6	249.6			

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 21 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-12D
__ Upgradient X Downgradient __ Sidegradient __ Source
Weather Conditions: Overcast
Air Temperature: 68 ° F
Total Well Depth (TWD) = 50.00 1/100 ft
Depth to Ground Water (DGW) = 14.20 1/100 ft
Length of Water Column (LWC) = TWD - DGW = __ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = __ gal
3 Casing Volumes = __ 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: 4.80 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 X NO __ Type Tubing
Steel Guard Pipe Around Casing: YES X NO __
Locking Cap: YES X NO __
Protective Post/Abutment: YES X NO X
Well Integrity Satisfactory: YES X NO __
Yield: LOW __ MODERATE __ HIGH X
Comments/Observations
Sample Time 0858 0956
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	0855	0905	0915	0925	0935	0945	0950	0955			
VOLUME PURGED (gallons)		.80	1.60	2.40	3.20	4.0	4.40	4.80				
TIME (Military)	0755	0805	0815	0825	0835	0845	0850	0855	Km			
Water Level (ft BTOC)	14.58	15.83	15.88	15.88	15.88	15.88	15.88	15.88				
pH (S.U.)	10.92	10.54	9.90	9.52	9.44	9.39	9.28	9.31				
Sp. Cond. (mS/cm)	0.552	0.276	0.205	0.204	0.205	0.206	0.208	0.207				
Water Temp. (°C)	19.3	19.0	19.0	19.0	19.0	19.0	19.0	19.0				
Turbidity (NTUs)	15.34	1.27	4.06	2.25	1.43	1.66	0.01	0.77				
DO - (mg/L)	2.94	3.59	3.82	4.03	4.10	4.13	4.19	4.20				
Salinity (ppt)	0.27	0.13	0.10	0.10	0.10	0.10	0.10	0.10				
ORP (mV)	-26.9	-22.1	-8.1	+1.7	+4.2	+7.1	+10.1	+8.8				

COMMENTS/OBSERVATIONS
Ph and Conductivity are high stabilize after 5 gals

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 21, 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-13D
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: mostly cloudy
Air Temperature: ___ °F
Total Well Depth (TWD) = 50.00 1/100 ft
Depth to Ground Water (DGW) = 12.88 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 2.10 gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 146.23 1/100 ft
Height of Riser (above land surface): -0.18 1/100 ft
Land Surface Elevation: 146.41 1/100 ft
Screened Interval: 40 - 50 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 ___
Comments/Observations:
Sample Time: 1130
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75	2.10				
TIME (Military)	1058	1103	1108	1113	1118	1123	1128				
Water Level (ft BTOC)	12.89	12.89	12.89	12.89	12.89	12.89	12.89				
pH (S.U.)	6.37	6.91	7.05	7.25	7.34	7.41	7.46				
Sp. Cond. (mS/cm)	0.224	0.225	0.225	0.225	0.226	0.226	0.227				
Water Temp. (°C)	20.2	20.1	20.1	20.1	20.1	20.2	20.2				
Turbidity (NTUs)	13.08	0.77	0.95	0.87	0.01	0.16	0.04				
DO - (mg/L)	3.64	3.60	3.56	3.75	3.57	3.73	3.71				
Salinity (ppt)	0.11	0.11	0.11	0.11	0.11	0.11	0.11				
ORP (mV)	140.3	114.4	93.2	82.4	77.5	75.2	72.9				

COMMENTS/OBSERVATIONS ___

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-14
__ Upgradient X Downgradient __ Sidegradient __ Source
Weather Conditions: Sunny
Air Temperature: 68° F
Total Well Depth (TWD) = 20.00 1/100 ft
Depth to Ground Water (DGW) = 12.21 1/100 ft
Length of Water Column (LWC) = TWD - DGW = __ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = __ gal
3 Casing Volumes = __ 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 __ gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 146.90 1/100 ft
Height of Riser (above land surface): -0.15 1/100 ft
Land Surface Elevation: 147.05 1/100 ft
Screened Interval: 5 - 20 1/100 ft
Dedicated Pump or Bailer: YES X NO __ Type tubing
Steel Guard Pipe Around Casing: YES __ NO X
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: @ 1205
Sample Analytes: V 8260 TCL
Hack Fe Kit: / 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	0.2	0.5	0.7	0.9						
VOLUME PURGED (gallons)											
TIME (Military)	1140	1145	1150	1155	1200						
Water Level (ft BTOC)	12.23	12.39	12.72	12.78	12.82						
pH (S.U.)	5.16	5.14	5.06	5.06	5.05						
Sp. Cond. (mS/cm)	0.028	0.028	0.027	0.026	0.026						
Water Temp. (°C)	23.4°	23.4°	23.6°	23.5°	23.5°						
Turbidity (NTUs)	34.53	10.95	3.12	4.21	5.37						
DO - (mg/L)	5.16	5.17	4.76	4.80	4.84						
Salinity (ppt)	-	-	-	-	-						
ORP (mV)	350.4	353.8	381.3	386.8	390.7						

COMMENTS/OBSERVATIONS

Dup
@1135
MW-14D-a

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/20/20
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-14D
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	Sunny
Air Temperature	66° F
Total Well Depth (TWD) =	50.00 1/100 ft
Depth to Ground Water (DGW) =	13.48 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	___ gal
3 Casing Volumes =	___ 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	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 X NO ___ Type Tubing
Steel Guard Pipe Around Casing	YES ___ NO X
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	@1135 *Dup*
Sample Analytes	VOCs 8260 TCL
Hack Fe Kit	___ 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	0.30	0.50	0.70	0.90	1.20	1.40				
TIME (Military)	1100	1105	1110	1115	1120	1125	1130				
Water Level (ft BTOC)	13.48	13.50	13.50	13.50	13.50	13.51	13.51				
pH (S.U.)	8.17	7.73	7.78	7.77	7.77	7.75	7.75				
Sp. Cond. (mS/cm)	0.187	0.229	0.236	0.235	0.234	0.234	0.234				
Water Temp. (°C)	22.4°	22.5°	22.7°	22.7°	22.5°	22.6°	22.6°				
Turbidity (NTUs)	11.11	12.62	382.9	70.02	24.88	26.18	25.58				
DO - (mg/L)	3.40	0.74	0.25	0.20	0.18	0.18	0.19				
Salinity (ppt)	-	-	-	-	-	-	-				
ORP (mV)	148.4	166.0	-52.6	-24.7	9.3	11.0	16.8				

COMMENTS/OBSERVATIONS @1106 Became very turbid - gray color (cloudy)

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 19, 2020
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-15
____ Upgradient __X__ Downgradient ____ Sidegradient ____ Source	
Weather Conditions	clear Isunny
Air Temperature	71 ° F
Total Well Depth (TWD) =	19.00 1/100 ft
Depth to Ground Water (DGW) =	4.13 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	gal
3 Casing Volumes =	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	2.10 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	135.73 1/100 ft
Height of Riser (above land surface)	-0.40 1/100 ft
Land Surface Elevation	136.13 1/100 ft
Screened Interval	4 - 19 1/100 ft
Dedicated Pump or Bailer	YES ____ NO X Type ____
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	1437
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										
VOLUME PURGED (gallons)		.35	.70	1.05	1.40	1.75	2.10				
TIME (Military)	1405	1410	1415	1420	1425	1430	1435				
Water Level (ft BTOC)	4.18	4.28	4.33	4.38	4.42	4.42	4.42				
pH (S.U.)	5.99	5.04	4.93	4.91	4.82	4.83	4.83				
Sp. Cond. (mS/cm)	0.497	0.483	0.483	0.459	0.453	0.454	0.454				
Water Temp. (°C)	21.4	21.3	21.3	21.5	21.5	21.7	21.6				
Turbidity (NTUs)	8.74	7.29	10.78	15.93	14.99	14.74	14.19				
DO - (mg/L)	1.48	1.04	0.86	0.70	0.74	0.77	0.79				
Salinity (ppt)	0.24	0.23	0.22	0.22	0.22	0.22	0.22				
ORP (mV)	93.4	32.1	0.2	-15.0	-15.1	-16.1	-23.2				

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 19 2020
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-15D
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	Clear 1540 hrs
Air Temperature	71 ° F
Total Well Depth (TWD) =	45.00 1/100 ft
Depth to Ground Water (DGW) =	2.53 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	___ gal
3 Casing Volumes =	___ 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	1.75 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	135.59 1/100 ft
Height of Riser (above land surface)	-0.34 1/100 ft
Land Surface Elevation	135.93 1/100 ft
Screened Interval	35 - 45 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 ___
Comments/Observations	
Sample Time	1520
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										
VOLUME PURGED (gallons)		.35	.70	1.05	1.40	1.75					
TIME (Military)	1452	1457	1502	1507	1512	1517					
Water Level (ft BTOC)	2.55	2.55	2.55	2.55	2.55	2.55					
pH (S.U.)	6.57	6.70	6.82	6.95	7.00	7.03					
Sp. Cond. (mS/cm)	0.419	0.424	0.426	0.426	0.427	0.427					
Water Temp. (°C)	20.3	20.2	20.1	20.1	20.0	20.0					
Turbidity (NTUs)	7.43	3.12	2.65	2.80	2.58	1.18					
DO - (mg/L)	1.56	1.71	1.80	1.92	1.71	1.70					
Salinity (ppt)	0.20	0.20	0.20	0.21	0.21	0.21					
ORP (mV)	-17.9	+14.6	+29.0	41.7	45.7	48.6					

COMMENTS/OBSERVATIONS ___

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 19, 2020
Field Personnel: Kandy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-15D1
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions: clear/sunny
Air Temperature: 72 ° F
Total Well Depth (TWD) = 85.00 1/100 ft
Depth to Ground Water (DGW) = 2.68 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.75 gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 135.69 1/100 ft
Height of Riser (above land surface): -0.25 1/100 ft
Land Surface Elevation: 135.94 1/100 ft
Screened Interval: 75 - 85 1/100 ft
Dedicated Pump or Bailer: YES X NO ____ Type Tubing
Steel Guard Pipe Around Casing: YES ____ 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: 1557
Sample Analytes: VOCs
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										
VOLUME PURGED (gallons)		.35	.70	1.05	1.40	1.75					
TIME (Military)	1530	1535	1540	1545	1550	1555					
Water Level (ft BTOC)	2.73	2.73	2.73	2.73	2.73	2.73					
pH (S.U.)	7.41	7.36	7.41	7.49	7.53	7.54					
Sp. Cond. (mS/cm)	0.209	0.203	0.203	0.204	0.205	0.206					
Water Temp. (°C)	19.9	19.6	19.6	19.6	19.5	19.5					
Turbidity (NTUs)	2.11	2.24	1.70	2.72	2.80	1.04					
DO - (mg/L)	0.67	0.23	0.20	0.19	0.18	0.23					
Salinity (ppt)	0.10	0.10	0.10	0.10	0.10	0.10					
ORP (mV)	-99.3	-101.3	-112.9	-114.7	-117.3	-118.3					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 20, 2020
Field Personnel: Kenny Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-16
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions: mostly sunny
Air Temperature: 55 ° F
Total Well Depth (TWD) = 19.00 1/100 ft
Depth to Ground Water (DGW) = 5.23 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.75 gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 138.30 1/100 ft
Height of Riser (above land surface): -0.44 1/100 ft
Land Surface Elevation: 138.74 1/100 ft
Screened Interval: 4 - 19 1/100 ft
Dedicated Pump or Bailer: YES X NO ____ Type Yes Mg
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: 0833
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	@35	@.70	1.05	1.40	1.75					
VOLUME PURGED (gallons)											
TIME (Military)	0805	0810	0815	0820	0825	0830					
Water Level (ft BTOC)	5.36	5.60	5.80	6.05	6.23	6.39					
pH (S.U.)	7.15	4.93	4.77	4.69	4.65	4.62					
Sp. Cond. (mS/cm)	0.041	0.031	0.029	0.028	0.028	0.028					
Water Temp. (°C)	18.7	19.6	21.7	20.0	20.0	20.1					
Turbidity (NTUs)	99.86	17.53	12.51	11.92	11.49	11.13					
DO - (mg/L)	0.80	0.33	0.32	0.28	0.26	0.26					
Salinity (ppt)	0.02	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	103.2	44.8	19.9	2.8	-3.9	-7.2					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 20, 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-16D
_____ Upgradient X Downgradient _____ Sidegradient _____ Source
Weather Conditions: Mostly Sunny
Air Temperature: 57 ° F
Total Well Depth (TWD) = 45.00 1/100 ft
Depth to Ground Water (DGW) = 5.46 1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = _____ gal
3 Casing Volumes = _____ 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: 1.75 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 X NO _____ Type Fusing
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: 0903
Sample Time: _____
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75					
TIME (Military)	0835	0840	0845	0850	0855	0900					
Water Level (ft BTOC)	5.47	5.46	5.46	5.46	5.46	5.46					
pH (S.U.)	6.15	6.75	7.02	7.28	7.28	7.34					
Sp. Cond. (mS/cm)	0.263	0.277	0.273	0.273	0.274	0.273					
Water Temp. (°C)	20.5	18.8	18.9	18.9	18.9	19.0					
Turbidity (NTUs)	8.07	0.07	0.00	0.18	0.17	0.00					
DO - (mg/L)	2.33	3.27	3.47	3.64	3.71	3.76					
Salinity (ppt)	0.13	0.13	0.13	0.13	0.13	0.13					
ORP (mV)	20.6	38.9	54.7	61.9	66.5	69.7					

COMMENTS/OBSERVATIONS _____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Marian Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-17
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: Sunny
Air Temperature: 80° F
Total Well Depth (TWD) = 28.40 1/100 ft
Depth to Ground Water (DGW) = 5.44 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 1.30 gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 141.66 1/100 ft
Height of Riser (above land surface): -0.05 1/100 ft
Land Surface Elevation: 141.71 1/100 ft
Screened Interval: 13 - 28 1/100 ft
Dedicated Pump or Bailer: YES X NO ___ Type tubing
Steel Guard Pipe Around Casing: YES ___ NO X
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: @ 1520
Sample Analytes: V 8260 TCL
Hack Fe Kit: ___ 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	0.2	0.5	0.7	0.9	1.10					
VOLUME PURGED (gallons)											
TIME (Military)	1450	1455	1500	1505	1510	1515					
Water Level (ft BTOC)	5.44	5.82	5.90	5.92	5.94	5.95					
pH (S.U.)	5.14	5.12	5.12	5.12	5.13	5.12					
Sp. Cond. (mS/cm)	0.082	0.082	0.082	0.082	0.082	0.082					
Water Temp. (°C)	20.3°	20.3°	20.1°	20.1°	20.1°	20.0°					
Turbidity (NTUs)	2.40	1.90	0.47	0.41	0.99	2.35					
DO - (mg/L)	4.53	3.61	3.01	2.84	2.79	2.74					
Salinity (ppt)	—	—	—	—	—	—					
ORP (mV)	450.4	448.1	444.9	443.2	442.9	442.1					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-18
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: Sunny
Air Temperature: 80. ° F
Total Well Depth (TWD) = 26.40 1/100 ft
Depth to Ground Water (DGW) = 11.01 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 1.10 gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 145.41 1/100 ft
Height of Riser (above land surface): -0.05 1/100 ft
Land Surface Elevation: 145.46 1/100 ft
Screened Interval: 11 - 26 1/100 ft
Dedicated Pump or Bailer: YES X NO ___ Type tubing
Steel Guard Pipe Around Casing: YES ___ NO X
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: @ 1550
Sample Analytes: V8260 TCL
Hack Fe Kit: ~ 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										
VOLUME PURGED (gallons)		0.30	0.50	0.75	0.95						
TIME (Military)	1535	1530	1535	1540	1545						
Water Level (ft BTOC)	11.04	11.04	11.04	11.05	11.04						
pH (S.U.)	4.80	4.75	4.75	4.76	4.76						
Sp. Cond. (mS/cm)	0.040	0.040	0.040	0.040	0.040						
Water Temp. (°C)	21.8°	21.8°	21.8°	21.8°	21.7°						
Turbidity (NTUs)	18.67	17.18	6.91	6.34	5.41						
DO - (mg/L)	2.94	1.92	1.86	1.80	1.82						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	460.7	458.7	455.9	454.7	454.6						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 29 2020
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-19
___ Upgradient ___ Downgradient ___ Sidegradient	X Source
Weather Conditions	partly cloudy
Air Temperature	78 ° F
Total Well Depth (TWD) =	20 15 1/100 ft
Depth to Ground Water (DGW) =	13.21 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 =	gal
3 Casing Volumes =	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	1.0 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 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	1740
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	0.20	0.40	0.60	0.80	1.0					
VOLUME PURGED (gallons)											
TIME (Military)	1713	1718	1723	1728	1733	1738					
Water Level (ft BTOC)	13.50	13.58	13.63	13.67	13.71	13.75					
pH (S.U.)	4.23	4.20	4.15	4.12	4.03	4.04					
Sp. Cond. (mS/cm)	0.068	0.071	0.074	0.073	0.072	0.071					
Water Temp. (°C)	24.2	23.1	23.1	23.1	23.0	23.0					
Turbidity (NTUs)	67.77	26.70	2.92	1.80	2.63	2.85					
DO - (mg/L)	1.20	0.99	0.96	0.88	0.86	0.82					
Salinity (ppt)	0.03	0.03	0.03	0.03	0.03	0.03					
ORP (mV)	267.0	244.2	230.3	219.4	216.0	201.6					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 20, 2010
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-20
____ Upgradient ____ Downgradient ____ Sidegradient X Source
Weather Conditions: partly cloudy
Air Temperature: 76 ° F
Total Well Depth (TWD) = 15.15 1/100 ft
Depth to Ground Water (DGW) = 12.96 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 = ____ gal
3 Casing Volumes = ____ 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: 1.0 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 X NO ____ Type Fultong
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: 1653
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										
VOLUME PURGED (gallons)		0.25	0.50	0.75	1.0						
TIME (Military)	1630	1635	1640	1645	1650						
Water Level (ft BTOC)	13.28	13.38	13.43	13.46	13.48						
pH (S.U.)	4.49	4.14	4.11	4.08	4.10						
Sp. Cond. (mS/cm)	0.032	0.031	0.031	0.032	0.031						
Water Temp. (°C)	21.8	21.8	21.6	21.5	21.6						
Turbidity (NTUs)	20.00	3.82	1.58	0.42	0.58						
DO - (mg/L)	4.22	3.33	3.11	3.06	3.18						
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01						
ORP (mV)	291.0	275.3	255.0	247.6	240.1						

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-21
___ Upgradient ___ Downgradient ___ Sidegradient X Source
Weather Conditions: Sunny
Air Temperature: 82° F
Total Well Depth (TWD) = 34.40 1/100 ft
Depth to Ground Water (DGW) = 13.52 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 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 tubing
Steel Guard Pipe Around Casing: YES ___ NO X
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: @ 1650
Sample Analytes: V 8260 TCL
Hack Fe Kit: ___ 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	0.30	0.60	0.90	1.20	1.40					
VOLUME PURGED (gallons)	1620	1625	1630	1635	1640	1645					
TIME (Military)	13.55	14.05	14.17	14.37	14.42	14.49					
Water Level (ft BTOC)	5.17	5.15	5.16	5.15	5.15	5.16					
pH (S.U.)	0.020	0.019	0.019	0.019	0.019	0.019					
Sp. Cond. (mS/cm)	22.5°	22.6°	22.6°	22.5°	22.4°	22.3°					
Water Temp. (°C)	491.4	306.3	192.7	60.45	62.42	64.37					
Turbidity (NTUs)	2.17	0.82	0.48	0.43	0.41	0.42					
DO - (mg/L)	-	-	-	-	-	-					
Salinity (ppt)	340.4	336.0	332.4	333.0	331.6	329.8					
ORP (mV)											

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-21D
_____ Upgradient ____ Downgradient ____ Sidegradient X Source
Weather Conditions: Sunny
Air Temperature: 82 ° F
Total Well Depth (TWD) = 53.40 1/100 ft
Depth to Ground Water (DGW) = 13.33 1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = _____ gal
3 Casing Volumes = _____ 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: 1.10 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 X NO _____ Type tubing
Steel Guard Pipe Around Casing YES _____ NO X
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: @ 1720
Sample Analytes: V8260 TCL
Hack Fe Kit _____ 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										
VOLUME PURGED (gallons)		0.25	0.45	0.60	0.90						
TIME (Military)	1655	1700	1705	1710	1715						
Water Level (ft BTOC)	13.35	13.36	13.35	13.35	13.35						
pH (S.U.)	10.12	9.93	7.83	7.82	7.80						
Sp. Cond. (mS/cm)	0.250	0.259	0.232	0.232	0.231						
Water Temp. (°C)	23.0°	23.0°	22.8°	22.8°	22.7°						
Turbidity (NTUs)	11.37	9.75	4.61	2.30	2.35						
DO - (mg/L)	2.49	0.58	0.20	0.21	0.19						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	296.7	280.8	101.3	99.0	97.8						

COMMENTS/OBSERVATIONS _____

Dup
@1050
MW-22D-a

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/2020
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-22D
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: Sunny
Air Temperature: 65° F
Total Well Depth (TWD) = 48.40 1/100 ft
Depth to Ground Water (DGW) = 12.73 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 1.30 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 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 X HIGH ___
Comments/Observations
Sample Time: @1050 *Dup*
Sample Analytes: V8260 TCL
Hack Fe Kit: ~ 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	0.3	0.6	0.9	1.2						
VOLUME PURGED (gallons)											
TIME (Military)	1026	1031	1036	1041	1046						
Water Level (ft BTOC)	12.73	12.70	12.70	12.70	12.70						
pH (S.U.)	7.68	7.70	7.71	7.73	7.72						
Sp. Cond. (mS/cm)	0.258	0.258	0.259	0.260	0.260						
Water Temp. (°C)	21.2	21.4	21.7	21.7	21.6						
Turbidity (NTUs)	4.18	4.03	1.72	0.59	1.11						
DO - (mg/L)	4.16	3.01	3.09	3.04	3.03						
Salinity (ppt)	-	-	-	-	-						
ORP (mV)	271.9	268.5	267.8	266.3	265.6						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/2020
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-23D
__ Upgradient X Downgradient __ Sidegradient __ Source
Weather Conditions: Sunny
Air Temperature: 70° F
Total Well Depth (TWD) = 50.40 1/100 ft
Depth to Ground Water (DGW) = 14.65 1/100 ft
Length of Water Column (LWC) = TWD - DGW = __ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = __ gal
3 Casing Volumes = __ 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 __ gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 148.26 1/100 ft
Height of Riser (above land surface): -0.09 1/100 ft
Land Surface Elevation: 148.35 1/100 ft
Screened Interval: 40 - 50 1/100 ft
Dedicated Pump or Bailer: YES X NO __ Type tubing
Steel Guard Pipe Around Casing: YES __ NO X
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: @ 1235
Sample Analytes: V8260 TCL
Hack Fe Kit: ✓ 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										
VOLUME PURGED (gallons)		0.30	0.60	0.85	1.0						
TIME (Military)	1210	1215	1220	1225	1230						
Water Level (ft BTOC)	14.65	14.67	14.67	14.67	14.67						
pH (S.U.)	7.44	7.50	7.57	7.57	7.56						
Sp. Cond. (mS/cm)	0.301	6.301	0.303	0.303	0.303						
Water Temp. (°C)	21.9°	21.7°	21.7°	21.8°	21.9°						
Turbidity (NTUs)	8.98	1.44	2.97	2.91	2.51						
DO - (mg/L)	3.33	2.61	2.57	2.49	2.47						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	348.2	341.8	330.5	327.1	326.9						

COMMENTS/OBSERVATIONS

Dup
@1335

MW-24-a

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-24
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: sunny
Air Temperature: 72° F
Total Well Depth (TWD) = 21.00 1/100 ft
Depth to Ground Water (DGW) = 14.16 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 1.30 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 X NO ___ Type Tubing
Steel Guard Pipe Around Casing: YES ___ NO X
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 *Dup*
Sample Analytes: V8260 TCL
Hack Fe Kit: — 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	0.25	0.50	0.75	1.0	1.2					
VOLUME PURGED (gallons)											
TIME (Military)	1305	1310	1315	1320	1325	1330					
Water Level (ft BTOC)	14.16	14.26	14.30	14.29	14.29	14.30					
pH (S.U.)	5.22	5.12	5.10	5.10	5.11	5.11					
Sp. Cond. (mS/cm)	0.022	0.018	0.018	0.018	0.018	0.018					
Water Temp. (°C)	21.9°	22.3°	22.3°	22.5°	22.5°	22.6					
Turbidity (NTUs)	25.25	62.43	89.98	102.7	106.8	103.1					
DO - (mg/L)	5.50	4.97	5.03	5.03	5.02	4.98					
Salinity (ppt)	—	—	—	—	—	—					
ORP (mV)	379.8	402.6	409.1	413.8	417.9	420.8					

COMMENTS/OBSERVATIONS: ~~Aaiis~~ bugs are really bad, bring spray!

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-25D
__ Upgradient X Downgradient __ Sidegradient __ Source
Weather Conditions: Sunny
Air Temperature: 81 ° F
Total Well Depth (TWD) = 62.00 1/100 ft
Depth to Ground Water (DGW) = 6.06 1/100 ft
Length of Water Column (LWC) = TWD - DGW = __ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = __ gal
3 Casing Volumes = __ 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: 1.40 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 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 X HIGH X
Comments/Observations:
Sample Time @ 1730
Sample Analytes: VOCs TCL
Hack Fe Kit: / 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										
VOLUME PURGED (gallons)		0.25	0.50	0.75	1.00	1.30					
TIME (Military)	1700	1705	1710	1715	1720	1725					
Water Level (ft BTOC)	6.06	6.08	6.10	6.10	6.10	6.09					
pH (S.U.)	7.73	7.73	7.72	7.71	7.71	7.72					
Sp. Cond. (mS/cm)	0.268	0.268	0.268	0.268	0.268	0.268					
Water Temp (°C)	21.8°	22.2°	22.3°	22.2°	22.1	22.2°					
Turbidity (NTUs)	3.37	2.48	1.56	2.74	1.47	1.61					
DO - (mg/L)	2.89	2.44	2.35	2.39	2.41	2.40					
Salinity (ppt)	-	-	-	-	-	-					
ORP (mV)	281.2	277.7	277.1	278.0	278.5	278.8					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-26D
_____ Upgradient X Downgradient _____ Sidegradient _____ Source
Weather Conditions: sunny
Air Temperature: 63° F
Total Well Depth (TWD) = 48.00 1/100 ft
Depth to Ground Water (DGW) = 10.60 1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = _____ gal
3 Casing Volumes = _____ 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 _____ gal

Casing Diameter: 2.0 inches
Casing Material: PVC
Measuring Point Elevation: 143.64 1/100 ft
Height of Riser (above land surface): -0.19 1/100 ft
Land Surface Elevation: 143.83 1/100 ft
Screened Interval: 38 - 48 1/100 ft
Dedicated Pump or Bailer YES X NO _____ Type tubing
Steel Guard Pipe Around Casing YES _____ NO X
Locking Cap YES X NO _____
Protective Post/Abutment YES _____ NO X
Well Integrity Satisfactory YES X NO _____
Yield LOW _____ MODERATE X HIGH X
Comments/Observations
Sample Time: @ 1020
Sample Analytes: V 8260 TCL
Hack Fe Kit: ____ 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										
VOLUME PURGED (gallons)		0.20	0.40	0.65	0.85	1.10					
TIME (Military)	0950	0955	1000	1005	1010	1015					
Water Level (ft BTOC)	10.64	10.69	10.68	10.68	10.68	10.69					
pH (S.U.)	7.41	7.56	7.55	7.56	7.56	7.57					
Sp. Cond. (mS/cm)	0.268	0.270	0.270	0.270	0.270	0.270					
Water Temp. (°C)	21.4°	21.2°	21.4°	21.6°	21.6°	21.6°					
Turbidity (NTUs)	2.48	0.69	0.86	1.06	0.72	0.71					
DO - (mg/L)	4.24	3.32	2.67	2.36	2.31	2.30					
Salinity (ppt)	-	-	-	-	-	-					
ORP (mV)	264.6	261.9	261.1	260.5	260.3	260.2					

COMMENTS/OBSERVATIONS _____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 21 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-27
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions: overcast
Air Temperature: ___ ° F
Total Well Depth (TWD) = 29.00 1/100 ft
Depth to Ground Water (DGW) = 10.79 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 2.45 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: 1048
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75	2.10	2.45			
TIME (Military) 1010	~~1014~~	1015	1020	1025	1030	1035	1040	1045			
Water Level (ft BTOC)	11.13	11.60	11.78	11.84	11.89	11.91	11.93	11.95			
pH (S.U.)	6.14	6.39	5.73	5.35	5.19	5.00	4.88	4.84			
Sp. Cond. (mS/cm)	0.047	0.045	0.046	0.045	0.042	0.039	0.041	0.041			
Water Temp. (°C)	21.3	21.1	21.2	21.1	21.1	21.0	21.1	21.1			
Turbidity (NTUs)	16.70	0.73	0.94	1.22	0.34	0.64	1.23	1.20			
DO - (mg/L)	5.59	5.58	5.59	5.71	5.79	5.91	5.78	5.84			
Salinity (ppt)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
ORP (mV)	178.4	236.3	247.0	249.5	250.1	250.1	249.2	246.1			

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 19, 2010
Field Personnel: Kelly Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-28
____ 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) = ____ 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 2.45 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: 1738
Sample Analytes: VOCs
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75	2.10	2.45			
TIME (Military)	1700	1705	1710	1715	1720	1725	1730	1735			
Water Level (ft BTOC)	13.13	13.60	13.81	13.85	13.88	13.89	13.90	13.90			
pH (S.U.)	6.17	6.07	6.29	6.39	6.49	6.52	6.65	6.69			
Sp. Cond. (mS/cm)	0.134	0.139	0.159	0.167	0.181	0.192	0.207	0.214			
Water Temp. (°C)	22.4	21.9	21.8	21.7	21.5	21.4	21.5	21.4			
Turbidity (NTUs)	13.27	16.40	18.46	25.54	24.60	25.88	24.35	24.19			
DO - (mg/L)	1.25	1.10	1.07	1.13	1.12	1.20	1.28	1.31			
Salinity (ppt)	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10			
ORP (mV)	138.7	112.2	90.7	84.1	77.5	77.4	71.2	70.7			

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 19, 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-29
_____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Clear / Sunny
Air Temperature: ____ ° F
Total Well Depth (TWD) = 29.00 1/100 ft
Depth to Ground Water (DGW) = 7.20 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.75 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: 1645
Sample Analytes: VOCs
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										
VOLUME PURGED (gallons)		.35	.70	1.05	1.40	1.75					
TIME (Military)	1618	1623	1628	1633	1638	1643					
Water Level (ft BTOC)	7.38	7.48	7.50	7.50	7.50	7.50					
pH (S.U.)	6.34	5.21	5.08	4.97	4.93	4.86					
Sp. Cond. (mS/cm)	0.049	0.045	0.046	0.044	0.044	0.044					
Water Temp. (°C)	21.4	21.4	21.2	21.0	21.2	21.0					
Turbidity (NTUs)	8.70	3.19	6.08	4.88	3.08	5.12					
DO - (mg/L)	1.35	0.81	0.84	0.79	0.72	0.69					
Salinity (ppt)	0.02	0.02	0.02	0.02	0.02	0.02					
ORP (mV)	140.3	143.4	133.2	127.5	120.5	116.9					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #:
Sample ID*: MW-30D
__ Upgradient __ Downgradient __ Sidegradient __ Source
Weather Conditions: Sunny
Air Temperature: 82° F
Total Well Depth (TWD) = 59.78 1/100 ft
Depth to Ground Water (DGW) = 5.00 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = gal
3 Casing Volumes = 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: 1.10 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: 49 - 59 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 X HIGH __
Comments/Observations
Sample Time: @ 1625
Sample Analytes: V 8270 TCL
Hack Fe Kit: / 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									
VOLUME PURGED (gallons)		0.20	0.50	0.70	0.90					
TIME (Military)	1600	1605	1610	1615	1620					
Water Level (ft BTOC)	5.00	5.00	4.99	4.99	5.00					
pH (S.U.)	7.65	7.72	7.73	7.73	7.73					
Sp. Cond. (mS/cm)	0.273	0.268	0.268	0.268	0.268					
Water Temp. (°C)	21.5	21.4	21.5	21.6	21.7					
Turbidity (NTUs)	4.22	1.84	1.04	1.05	1.23					
DO - (mg/L)	2.68	2.64	2.66	2.64	2.65					
Salinity (ppt)	-	-	-	-	-					
ORP (mV)	269.0	261.1	260.4	260.0	259.5					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10-19-20
Field Personnel: Marian Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-31D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Sunny
Air Temperature: 82° F
Total Well Depth (TWD) = 60.35 1/100 ft
Depth to Ground Water (DGW) = 9.19 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.40 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: 50 - 60 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 X HIGH ____
Comments/Observations
Sample Time: @1655
Sample Analytes: V8260 TCL
Hack Fe Kit: ____ 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										
VOLUME PURGED (gallons)		0.3	0.6	0.9	1.20						
TIME (Military)	1630	1635	1640	1645	1650						
Water Level (ft BTOC)	9.20	9.22	9.22	9.23	9.23						
pH (S.U.)	7.80	7.81	7.82	7.82	7.83						
Sp. Cond. (mS/cm)	0.254	0.254	0.253	0.253	0.253						
Water Temp. (°C)	21.2°	21.5°	21.5°	21.6°	21.5						
Turbidity (NTUs)	6.29	7.17	4.55	3.69	3.44						
DO - (mg/L)	4.34	3.90	3.69	3.72	3.70						
Salinity (ppt)	-	-	-	-	-						
ORP (mV)	275.3	273.2	269.9	269.7	269.4						

COMMENTS/OBSERVATIONS

(10)

Dup
@ 0945
MW-32DR-a

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/20
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-32DR
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Sunny
Air Temperature: 59° F
Total Well Depth (TWD) = 53.65 1/100 ft
Depth to Ground Water (DGW) = 7.04 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.10 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 X NO ____ Type tubing
Steel Guard Pipe Around Casing: YES ~~X~~ (N/A) NO X
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: @0945 *Dup*
Sample Analytes: V8260 TCL
Hack Fe Kit: / 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	0.20	0.45	0.60	0.85	1.0					
TIME (Military)	0915	0920	0925	0930	0935	0940					
Water Level (ft BTOC)	7.04	7.05	7.05	7.05	7.05	7.05					
pH (S.U.)	7.42	7.39	7.36	7.38	7.38	7.37					
Sp. Cond. (mS/cm)	0.215	0.212	0.210	0.210	0.210	0.210					
Water Temp. (°C)	20.3°	20.5°	20.7°	20.6°	20.6°	20.5°					
Turbidity (NTUs)	1.91	0.79	0.666	0.22	0.15	0.19					
DO - (mg/L)	3.76	2.25	1.48	1.76	1.79	1.81					
Salinity (ppt)	-	-	-	-	-	-					
ORP (mV)	247.6	221.1	213.0	220.4	221.3	221.7					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10-19-20
Field Personnel: Marjah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-33D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Sunny
Air Temperature: 81° F
Total Well Depth (TWD) = 76.35 1/100 ft
Depth to Ground Water (DGW) = ~~76.35~~ 13.04 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ~~13.04~~ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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: 1.30 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: ____ 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: @1550
Sample Analytes: V8260TCL
Hack Fe Kit: / 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	0.30	0.60	0.90	1.20						
VOLUME PURGED (gallons)											
TIME (Military)	1525	1530	1535	1540	1545						
Water Level (ft BTOC)	13.04	13.04	13.05	13.05	13.05						
pH (S.U.)	8.07	8.25	8.26	8.27	8.27						
Sp. Cond. (mS/cm)	0.227	0.222	0.223	0.223	0.223						
Water Temp. (°C)	21.7°	21.3°	21.1°	21.0°	21.0°						
Turbidity (NTUs)	3.68	4.50	2.44	3.10	2.90						
DO - (mg/L)	2.77	0.56	0.54	0.54	0.51						
Salinity (ppt)	-	-	-	-	-						
ORP (mV)	263.4	257.2	253.8	~~251.7~~ 251.7 (MR)	249.9						

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10-19-2020
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-34D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source	
Weather Conditions	Sunny 79° (MZ)
Air Temperature	79° F
Total Well Depth (TWD) =	83.63 1/100 ft
Depth to Ground Water (DGW) =	13.95 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	69.32 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	____ gal
3 Casing Volumes =	____ 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	1.20 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	1/100 ft
Dedicated Pump or Bailer	YES ✓ 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 X HIGH X
Comments/Observations	
Sample Time:	@ 1425
Sample Analytes:	VOCs TCL
Hack Fe Kit:	/ 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										
VOLUME PURGED (gallons)		0.20	0.50	0.80	1.10						
TIME (Military)	1400	1405	1410	1415	1420						
Water Level (ft BTOC)	13.96	13.96	13.95	13.95	13.95						
pH (S.U.)	10.98	10.99	11.00	10.99	10.99						
Sp. Cond. (mS/cm)	0.152	0.159	0.165	0.161	0.161						
Water Temp. (°C)	20.5°	20.5°	20.3°	20.4°	20.4						
Turbidity (NTUs)	6.70	5.43	2.79	4.25	1.12						
DO - (mg/L)	0.78	0.44	0.38	0.40	0.41						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	185.6	174.4	168.1	165.0	164.8						

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/20
Field Personnel: Manah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-35D
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions: sunny
Air Temperature: 80° F
Total Well Depth (TWD) = 76.55 1/100 ft
Depth to Ground Water (DGW) = 11.80 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ___ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ___ gal
3 Casing Volumes = ___ 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: 1.20 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: ___ 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: @1505
Sample Analytes: V8260 TCL
Hack Fe Kit: / 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) = π r^2 h (7.48), where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial										
VOLUME PURGED (gallons)		0.25	0.50	0.80	1.0						
TIME (Military)	1440	1445	1450	1455	1500						
Water Level (ft BTOC)	11.80	11.79	11.79	11.78	11.78						
pH (S.U.)	7.80	7.81	7.80	7.86	7.81						
Sp. Cond. (mS/cm)	0.233	0.234	0.234	0.234	0.234						
Water Temp. (°C)	20.6°	20.5°	20.2°	20.3°	20.3°						
Turbidity (NTUs)	11.11	13.86	10.76	11.12	10.68						
DO - (mg/L)	2.53	2.36	2.34	2.34	2.33						
Salinity (ppt)	—	—	—	—	—						
ORP (mV)	285.9	285.7	282.2	281.9	281.8						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 21, 2020
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-36D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Overcast
Air Temperature: 68 ° F
Total Well Depth (TWD) = 65.82 1/100 ft
Depth to Ground Water (DGW) = 2.45 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = ____ gal
3 Casing Volumes = ____ 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 ____ 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 ____ 1/100 ft
Dedicated Pump or Bailer YES X NO ____ Type Tubing
Steel Guard Pipe Around Casing YES X NO ____
Locking Cap YES ____ NO ____
Protective Post/Abutment YES ____ NO X
Well Integrity Satisfactory YES X NO ____
Yield LOW ____ MODERATE ____ HIGH X
Comments/Observations
Sample Time: 0828
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										
VOLUME PURGED (gallons)		0.35	0.70	1.05	1.40	1.75					
TIME (Military)	0800	0805	0810	0815	0820	0825					
Water Level (ft BTOC)	2.47	2.48	2.48	2.48	2.48	2.48					
pH (S.U.)	7.23	6.89	6.93	6.99	7.04	7.07					
Sp. Cond. (mS/cm)	0.260	0.282	0.284	0.285	0.286	0.288					
Water Temp. (°C)	19.6	19.5	19.5	19.5	19.4	19.4					
Turbidity (NTUs)	5.06	4.02	0.72	2.64	3.66	2.41					
DO - (mg/L)	0.70	0.29	0.22	0.22	0.19	0.19					
Salinity (ppt)	0.13	0.13	0.14	0.14	0.14	0.14					
ORP (mV)	-105.9	-122.9	-124.8	-127.2	-130.0	-131.6					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr): Oct 20, 2020
Field Personnel: Rocky Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-317
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Partly Sunny
Air Temperature: 75 ° F
Total Well Depth (TWD) = 21.8 1/100 ft
Depth to Ground Water (DGW) = 12.95 1/100 ft
Length of Water Column (LWC) = TWD - DGW = ____ 1/100 ft
1 Casing Volume (OCV)* = LWC x ~~0.163~~ = ____ gal
3 Casing Volumes = ____ 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: 1.40 gal

Casing Diameter: ~~2~~ 10 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: 11.8 — 21.8 1/100 ft
Dedicated Pump or Bailer: YES X NO ____ Type Tubing
Steel Guard Pipe Around Casing: ~~YES~~ YES X NO ____
Locking Cap: YES ____ NO X
Protective Post/Abutment: YES ____ NO X
Well Integrity Satisfactory: YES X NO ____
Yield: LOW X MODERATE ____ HIGH ____
Comments/Observations
Sample Time: 1615
Sample Analytes: VOCs
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) = π r^2 h (7.48), where r is the radius (ft) and h is the height (ft)

FIELD ANALYSES

	Initial										
VOLUME PURGED (gallons)		0.20	~~.40~~	~~.60~~	~~0.80~~	~~1.00~~	1.20	1.40			
TIME (Military)	1537	1542	1547	1552	1557	1602	1607	1612			
Water Level (ft BTOC)	13.56	14.25	15.03	15.98	16.20	16.80	17.55	18.10			
pH (S.U.)	5.91	4.68	4.33	4.20	4.24	4.14	4.16	4.11			
Sp. Cond. (mS/cm)	0.065	0.063	0.063	0.063	0.063	0.062	0.062	0.062			
Water Temp. (°C)	21.7	21.6	21.6	21.5	21.4	21.4	21.4	21.3			
Turbidity (NTUs)	3.52	2.75	1.28	2.42	1.07	0.63	2.45	2.74			
DO - (mg/L)	4.28	3.80	3.97	3.47	3.58	2.98	3.32	2.21			
Salinity (ppt)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
ORP (mV)	165.7	209.1	221.4	230.5	245.2	253.0	241.8	234.8			

COMMENTS/OBSERVATIONS: Began purging at ____ Purging rate ____ ml/min Breathing Zone ____ ppm
Well Head ____ ppm

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day) 10/21/20

Field Personnel Randy Morgan / Mariah Rockwell

Site Name Delavan Spray Technologies

Earth Tech Job No.

Sample Station ID SW-01-LC

Surface Water X Sediment

Weather Conditions Sunny

Air Temperature (°C) 80°

	Surface Water		*Sediment*
Bailer		Stainless-Steel Scoop	
Bottle	X	Stainless-Steel Scoop	
Other (Specify)		Other (Specify)	

Sample Container

	Surface Water	Preservative (Y/N, Type)	Sediment
VOCs	X	N	
SVOCs			
Pest/PCBs			
Metals			
TPH			
Other (cyanide)			

(PPT) - Parts Per Thousand
(NTU) - Nephelometric Turbidity Units
(MV) - Millivolts
(umhos/cm) - Micro mhos Per Centimeter

Field Analysis

	Surface Water	*Sediment*
Time (Military)	1240	
pH (S.U.)	6.79	
ORP (mV)	21.7	
Specific Conductivity (mS/cm)	0.226	
Water temperature (°C)	20.1°	
Dissolved Oxygen (mg/L)	3.03	
Turbidity (NTU)	6.79	
Salinity (PPT)	−0.11	
Ferrous Iron	—	

*(1) Clear (2) Slight (3) Moderate (4) High

Comments/Observations:

sample time @ 1240

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day) 10/21/20

Field Personnel Randy Morgan / Mariah Rockwell

Site Name Delavan Spray Technologies

Earth Tech Job No.

Sample Station ID SW-02-LC

Surface Water X Sediment

Weather Conditions sunny

Air Temperature (°C) 82°

	Surface Water	*Sediment*
Bailer		Stainless-Steel Scoop
Bottle	X	Stainless-Steel Scoop
Other (Specify)		Other (Specify)

Sample Container	Surface Water	Preservative (Y/N, Type)	Sediment
VOCs	X	N	
SVOCs			
Pest/PCBs			
Metals			
TPH			
Other (cyanide)			

(PPT) - Parts Per Thousand
(NTU) - Nephelometric Turbidity Units
(MV) - Millivolts
(umhos/cm) - Micro mhos Per Centimeter

Field Analysis

	Surface Water	*Sediment*
Time (Military)	1315	
pH (S.U.)	6.47	
ORP (mV)	12.9	
Specific Conductivity (mS/cm)	0.198	
Water temperature (°C)	19.9°	
Dissolved Oxygen (mg/L)	3.34	
Turbidity (NTU)	34.37	
Salinity (PPT)	0.09	
Ferrous Iron	—	

*(1) Clear (2) Slight (3) Moderate (4) High

Comments/Observations:

sample time @ 1315

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day): 10/21/20

Field Personnel: Randy Morgan / Mariah Rockwell

Site Name: Delavan Spray Technologies

Earth Tech Job No.:

Sample Station ID: SW-03-HMB

Surface Water: X Sediment:

Weather Conditions: sunny

Air Temperature (°C): 83°

	Surface Water	*Sediment*
Bailer		Stainless-Steel Scoop
Bottle	X	Stainless-Steel Scoop
Other (Specify)		Other (Specify)

	Sample Container Surface Water	Preservative (Y/N, Type)	Sediment
VOCs	X	N	
SVOCs			
Pest/PCBs			
Metals			
TPH			
Other (cyanide)			

(PPT) - Parts Per Thousand
(NTU) - Nephelometric Turbidity Units
(MV) - Millivolts
(umhos/cm) - Micro mhos Per Centimeter

Field Analysis

	Surface Water	*Sediment*
Time (Military)	1330	
pH (S.U.)	6.61	
ORP (mV)	0.278	
Specific Conductivity (mS/cm)	4.3	
Water temperature (°C)	21.3°	
Dissolved Oxygen (mg/L)	6.02	
Turbidity (NTU)	67.15	
Salinity (PPT)	0.13	
Ferrous Iron	—	

*(1) Clear (2) Slight (3) Moderate (4) High

Comments/Observations:

sample time @1330

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day) 10/21/20

Field Personnel Randy Morgan / Mariah Rockwell

Site Name Delavan Spray Technologies

Earth Tech Job No.

Sample Station ID SW-04-TLC

Surface Water X Sediment

Weather Conditions Sunny

Air Temperature (°C) 82°

	Surface Water		*Sediment*
Bailer		Stainless-Steel Scoop	
Bottle	X	Stainless-Steel Scoop	
Other (Specify)		Other (Specify)	

	Sample Container Surface Water	Preservative (Y/N, Type)	Sediment
VOCs	X	N	
SVOCs			
Pest/PCBs			
Metals			
TPH			
Other (cyanide)			

(PPT) - Parts Per Thousand
(NTU) - Nephelometric Turbidity Units
(MV) - Millivolts
(umhos/cm) - Micro mhos Per Centimeter

Field Analysis

	Surface Water	*Sediment*
Time (Military)	1300	
pH (S.U.)	5.94	
ORP (mV)	38.3	
Specific Conductivity (mS/cm)	0.109	
Water temperature (°C)	20.9	
Dissolved Oxygen (mg/L)	2.78	
Turbidity (NTU)	31.61	
Salinity (PPT)	0.05	
Ferrous Iron	—	

*(1) Clear (2) Slight (3) Moderate (4) High

Comments/Observations:

Sample time @ 1300

* ditch was almost dry *

* in future park and enter @ lights/ power box *

AECOM

Chain of Custody and Analytical Request

Page 1 of 3
Project Number: 60624985.2a
Chain of Custody Number [1]:
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC
Client Name: UTC
Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
Trip Blank #1	19-Oct-2020			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
Trip Blank #2	19-Oct-2020			X			X			7 DAY HOLDING TIME	
MW-34D	19-Oct-2020	1425			X		X				
MW-15	19-Oct-2020	1437			X		X				
MW-35D	19-Oct-2020	1505			X		X				
MW-15D	19-Oct-2020	1520			X		X				
MW-33D	19-Oct-2020	1550			X		X				
MW-15D1	19-Oct-2020	1557			X		X				
MW-30D	19-Oct-2020	1625			X		X				
MW-29	19-Oct-2020	1645			X		X				
MW-31D	19-Oct-2020	1655			X		X				
MW-25D	19-Oct-2020	1730			X		X				
MW-28	19-Oct-2020	1738			X		X				
MW-16	20-Oct-2020	0833			X		X				
MW-16D	20-Oct-2020	0903			X		X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-2020	1300			
2.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:

Shipped: XXXX
Airbill #:
Location: Orlando FLA
Date: Time:

AECOM

Chain of Custody and Analytical Request

Page 2 of 3
Project Number:
Chain of Custody Number (1):
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
MW-32DR	20-Oct-20	0945			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	
MW-32DR-a	20-Oct-20	0945			X		X			7 DAY HOLDING TIME	
MW-10	20-Oct-20	0948			X		X				
MW-26D	20-Oct-20	1020			X		X				
MW-10D	20-Oct-20	1023			X		X				
MW-22D	20-Oct-20	1050			X		X				
MW-22D-a	20-Oct-20	1050			X		X				
MW-9D	20-Oct-20	1058			X		X				
MW-14D	20-Oct-20	1135			X		X				
MW-14D-a	20-Oct-20	1135			X		X				
MW-9	20-Oct-20	1135			X		X				
MW-9-ms	20-Oct-20	1135			X		X				
MW-9-msD	20-Oct-20	1135			X		X				
MW-23D	20-Oct-20	1235			X		X				
MW-4	20-Oct-20	1243			X		X				

Sample Analysis Requested

Quality Assurance Samples

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-20	1500			
2.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:

Shipped: XXXX
Airbill #:
Location: Orlando FLA
Date: Time:

AECOM

Chain of Custody and Analytical Request

Page 3 of 3
Project Number:
Chain of Custody Number (1):
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC
Client Name: UTC
Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
MW-4-a	20-Oct-20	1243			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	
MW-3	20-Oct-20	1348			X	↓	X			7 DAY HOLDING TIME	
MW-3D-MS	20-Oct-2020	1418			X		X				
MW-3D-MSD	20-Oct-2020	1418			X		X				
MW-3D	20-Oct-2020	1418			X		X				

Sample Analysis Requested | **Quality Assurance Samples**

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-20	1500			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped: XXXX
Method of Shipment: Fed Ex Airbill #: ____
Analytical Lab: SGS North America Inc Location: Orlando FLA
Lab Recipient: ____ 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

From: Morgan, Randy
To: Alexander, Leslee (Greenville)
Cc: Cullom, Doria
Date: Tuesday, October 20, 2020 7:53:15 PM

MW-14 was left off COC sampled at 1205

Sent from my iPhone

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60629983
Chain of Custody Number [1]:
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
Trip Blank #3	20-Oct-2020			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
Trip Blank #4	20-Oct-2020			X			X			7 DAY HOLDING TIME	
MW-24	20-Oct-2020	1335			X		X				
MW-24-a	20-Oct-2020	1335			X		X				
MW-5	20-Oct-2020	1405			X		X				
MW-6	20-Oct-2020	1440			X		X				
MW-17	20-Oct-2020	1520			X		X				
MW-18	20-Oct-2020	1550			X		X				
MW-37	20-Oct-2020	1615			X		X				
MW-21	20-Oct-2020	1650			X		X				
MW-20	20-Oct-2020	1653			X		X				
MW-21D	20-Oct-2020	1720			X		X				
MW-19	20-Oct-2020	1740			X		X				
MW-2	20-Oct-2020	1750			X		X				
MW-36D	21-Oct-2020	0828			X		X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10/21/20	1400			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped: XXXX
Method of Shipment: Fed Ex Airbill #: ____
Analytical Lab: SGS North America Inc Location: Orlando FLA
Lab Recipient: ____ 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

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60629985
Chain of Custody Number [1]:
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
MW-7	21-Oct-2020	0850			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	
MW-3D1	21-Oct-2020	0925			X		X			7 DAY HOLDING TIME	
MW-12D	21-Oct-2020	0958			X		X				
MW-11	21-Oct-2020	1030			X		X				
MW-27	21-Oct-2020	1048			X		X				
MW-13D	21-Oct-2020	1130			X		X				
MW-1	21-Oct-2020	1100			X		X				
MW-8	21-Oct-2020	1145			X		X				
Aqueous IDW	21-Oct-2020	1200		X			X	X	X		
SW-01-LC	21-Oct-2020	1240		X		Surface Water	X				
SW-04-LC	21-Oct-2020	1300		X			X				
SW-02-LC	21-Oct-2020	1315		X			X				
SW-03-HMB	21-Oct-2020	1330		X			X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-21-2020	1400	1.		
2.				2.		
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:
Shipped: XXXX
Airbill #:
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

Projects (continued) .....

10/19/20 UTC Delaware ①

0530 leave to pick up equipment
0600 leave Greenville for UTC Bamberg SC
0830 arrive on site - begin to open wells to equilibrate
0945 Nathan arrives RMA
Sign in at office get badges
1000 Continue opening wells then begin to collect water levels
1300 Complete water levels
decide up equipment - off-site to purchase ice
1340 calibrate YSI Pro Plus S/N 3732
1405 at MW-15 begin to micro purge with peristaltic pump
1437 Sampled MW-15
1452 at MW-15D begin to micro purge with peristaltic pump
1520 Sampled MW-15D
1522 at MW-15D1 begin to micro purge with peristaltic pump
1557 Sampled MW-15D1
1615 at MW-29 begin to micro purge
1645 Sampled MW-29
1700 at MW-28 begin to Micro purge
1738 Sampled MW-28
1750 EMPTY Purge water - 55 gal drum on site
1500 OFF SITE
1830 end of the day Randy Monige

(2) UTC Delavan 10/20/2020

0730 Purchase ice Bamberg SC
0735 on site - sign in
0740 Calibrate YSI ProPlus S/N 3132
0805 at MW-16 begin to micro purge with peristaltic pump
0833 Sampled MW-16
0835 at MW-16D begin to purge
0903 Sampled MW-16D
0920 at MW-10 begin to purge
0948 Sampled MW-10
0955 at MW-10D begin to purge
1023 Sampled MW-10D
1035 at MW-9D begin to micro purge
1058 Sampled MW-9D
1108 at MW-9 begin to purge
1135 Sampled MW-9 also MS/MSD
1155 at MW-4 begin to micro purge
1243 Sampled MW-4 also Duplicate
Purchase ice to pack samples
empty purge water
1320 at MW-3D begin to micro purge
1348 sampled MW-3
1350 at MW-3D begin to micro purge
1418 sampled MW-3D also MS/MSD
pack cooler for shipment

10/21/2020 UTC Delavan (3)

1500 relinquish sample cooler preparing to go inside bldg to sample (3) wells
1537 at MW-37 begin to micro purge
1615 Sampled MW-37
1630 at MW-20 begin to micro purge
1653 Sampled MW-20
1713 at MW-19 begin to micro purge
1740 Sampled MW-19
1755 empty purge water into 55 gal steel drum in drum storage area
1810 off site
1840 End of day - sampler stored on ice in secure location until 10/21/2020.

Randy Meyer 10-20-2020

④ UTC Delavan Bamberg SC

10-21-2020

0645 leave for sites

0720 purchase ice for crew Bamberg

0730 on site - calibrate YSI pro plus water quality meter S/N 3732

0800 at MW-36D begin to micro purge w/ peristaltic pump

0828 Sampled MW-36D

0855 at MW-12D begin to micro purge readings every 10 minutes until stabilize then every 5 minutes Ph & Cond. usually high then stabilizes after 4-5 goals

0958 sampled MW-12D

1010 at MW-27 begin to micro purge

1048 sampled MW-27

1058 at MW-13D begin to micro purge

1130 sampled MW-13D

1145 empty purge water

1200 collect Hydrous IDW sample

1215 prepare to collect Surface water samples

1240 at SW-01-LC collect sample under the bridge

1300 at SW-04-TLC collect sample out of 2nd ditch in powerline right away almost dry found small flow

⑤ UTC Delavan Bamberg SC

10-21-2020

1315 at SW-02-LC collect sample under bridge

1330 at SW-03-HMB collect sample out of stream, near culvert.

1345 at UTC Bamberg to pack samples for Fed EX to pick up - need additional ice - plan to purchase ice

finishing packing samples

1430 relinquish Samples - shipping dept.

Begin to collect residential samples

1445 at 13LCT to collect Pre & Post the bldg is falling Apart - could not repair

~~1450 at~~ Rm

1505 at 743LCR to collect Pre & Post

1515 at 715 LCR " "

1523 at 689 LCR " "

1530 at 684 LCR " "

1545 at 546 LCRA " "

1600 at 546 LCRB " "

doors are off bldg repaired

1610 at 343 LCR to collect Pre & Post

1630 at 310 LCR " "

doors are off bldg - repaired

1640 at 448 LCR to collect Pre & Post

Sampling event is now complete.

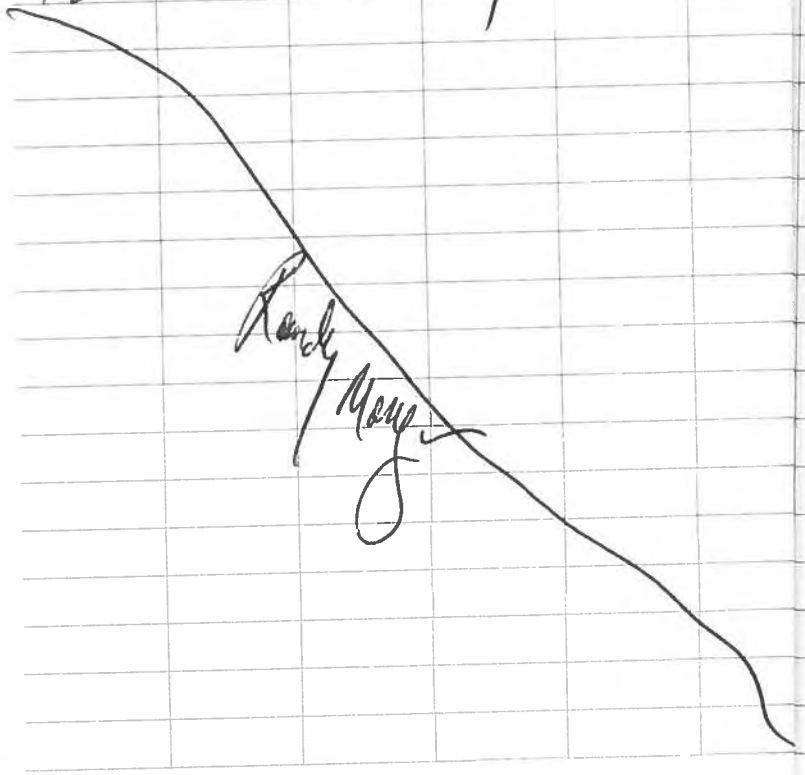
(6)

10-21-20 UTC Delaven

1700 off site - samples stored on ice in secure location - will deliver to Pace/Sheely labs in West Columbia on 10-22-2020 then return to Greenville SC to return equipment.

1735 at motel to complete COC and log book.

1830 end of the day



UTC Delavan

10/19/20 Rockwell 80°

0700 Leave Greenville office.
0930 Arrive at UTC Delavan.
Check into facility w/ R. Morgan
1000 Begin gauging site water levels
1300 Grab ice & lunch.
1425 Sampled MW-34D
1505 sampled MW-35D
1550 Sampled MW-33D
1625 Sampled MW-30D
1655 sampled MW-31D
1730 Sampled MW-25D
1800 Off site.
1836 Arrive @ Hotel.

10-19-20

UTC Delavan

60°F Rockwell 10-20-20

* woke up not feeling well *
0800 Leave hotel.
0845 Check in to facility.
0915 Begin @ MW-32DR
0945 sampled MW-32DR + Dup
1020 Sampled MW-26D
1050 sampled MW-22D + Dup
1135 sampled MW-14D + Dup
1205 sampled MW-14
1235 sampled MW-23D
Off site to get lunch & gas
1305 set up @ MW-24
1335 Sampled MW-24 + Dup
then dump purge water @ bldg
1405 Sampled MW-5
1440 sampled MW-6
1520 sampled MW-17
1550 sampled MW-18
1600 went to MW-36D, saw snake and dead gator... will return w/ snake chaps tomorrow
1650 sampled MW-21
1720 Sampled MW-21D
1750 Sampled MW-2
1800 Dump water, then Off site to Hotel.
1835 Arrive @ Hotel

10-20-20

WTC Delaware

10/21/20 70° Rockwell

0715 Leave hotel
0745 Check in @ facility, calibrate, get ice from Randy, H/S meeting.
0815 Begin purging MW-7
0850 Sampled MW-7
* Will need to grab more labels (2-3 more sets)
0925 Sampled MW-3D1
*picked up labels from Randy
0950 Begin purging MW-11
1030 Sampled MW-11
1110 Sampled MW-1
1145 sampled MW-8
1150 Dump purge water; sample IDW, prep for SW sampling
1235 begin SW sampling @
1240 SW-01-LC
1300 sampled SW-04-TLC
1315 Sampled SW-02-LC
1330 sampled SW-03-HMB
Complete SW sampling, return to facility to pack coolers for shipping. Then prep for residential wells
1400 Begin prep for residential wells.
1700 End residential well sampling.
1713 Back to site to pack samples

10/21/20
1800 Arrive at hotel. Return truck and equipment to Greenville tomorrow 10/22/20.

Rick Rockwell
10/21/20

APPENDIX C

ANALYTICAL DATA

Laboratory Reports – SGS North America, Inc.

Data Assessment Reports

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60629485.2a

SGS Job Number: FA80016

Sampling Dates: 10/19/20 - 10/20/20



Report to:

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

ATTN: Doria Cullom

Total number of pages in report: **105**

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.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 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.

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FA80016

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60629485.2a

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA80016-1	10/19/20	00:00	RMMR	10/21/20	AQ	Trip Blank Water	TRIP BLANK 1
FA80016-2	10/19/20	00:00	RMMR	10/21/20	AQ	Trip Blank Water	TRIP BLANK 2
FA80016-3	10/19/20	14:25	RMMR	10/21/20	AQ	Ground Water	MW-34D
FA80016-4	10/19/20	14:37	RMMR	10/21/20	AQ	Ground Water	MW-15
FA80016-5	10/19/20	15:05	RMMR	10/21/20	AQ	Ground Water	MW-35D
FA80016-6	10/19/20	15:20	RMMR	10/21/20	AQ	Ground Water	MW-15D
FA80016-7	10/19/20	15:50	RMMR	10/21/20	AQ	Ground Water	MW-33D
FA80016-8	10/19/20	15:57	RMMR	10/21/20	AQ	Ground Water	MW-15D1
FA80016-9	10/19/20	16:25	RMMR	10/21/20	AQ	Ground Water	MW-30D
FA80016-10	10/19/20	16:45	RMMR	10/21/20	AQ	Ground Water	MW-29
FA80016-11	10/19/20	16:55	RMMR	10/21/20	AQ	Ground Water	MW-31D
FA80016-12	10/19/20	17:30	RMMR	10/21/20	AQ	Ground Water	MW-25D

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Sample Summary
(continued)

Raytheon Technologies

Job No: FA80016

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60629485.2a

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA80016-13	10/19/20	17:38	RMMR	10/21/20	AQ	Ground Water	MW-28
FA80016-14	10/20/20	08:33	RMMR	10/21/20	AQ	Ground Water	MW-16
FA80016-15	10/20/20	09:03	RMMR	10/21/20	AQ	Ground Water	MW-16D
FA80016-16	10/20/20	09:45	RMMR	10/21/20	AQ	Ground Water	MW-32DR
FA80016-17	10/20/20	09:45	RMMR	10/21/20	AQ	Ground Water	MW-32DR-A
FA80016-18	10/20/20	09:48	RMMR	10/21/20	AQ	Ground Water	MW-10
FA80016-19	10/20/20	10:20	RMMR	10/21/20	AQ	Ground Water	MW-26D
FA80016-20	10/20/20	10:23	RMMR	10/21/20	AQ	Ground Water	MW-10D
FA80016-21	10/20/20	10:50	RMMR	10/21/20	AQ	Ground Water	MW-22D
FA80016-22	10/20/20	10:50	RMMR	10/21/20	AQ	Ground Water	MW-22D-A
FA80016-23	10/20/20	10:58	RMMR	10/21/20	AQ	Ground Water	MW-9D
FA80016-24	10/20/20	11:35	RMMR	10/21/20	AQ	Ground Water	MW-14D
FA80016-25	10/20/20	11:35	RMMR	10/21/20	AQ	Ground Water	MW-14D-A

Sample Summary
(continued)

Raytheon Technologies

Job No: FA80016

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60629485.2a

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA80016-26	10/20/20	11:35	RMMR	10/21/20	AQ	Ground Water	MW-9
FA80016-26D	10/20/20	11:35	RMMR	10/21/20	AQ	Water Dup/MSD	MW-9
FA80016-26S	10/20/20	11:35	RMMR	10/21/20	AQ	Water Matrix Spike	MW-9
FA80016-27	10/20/20	12:35	RMMR	10/21/20	AQ	Ground Water	MW-23D
FA80016-28	10/20/20	12:43	RMMR	10/21/20	AQ	Ground Water	MW-4
FA80016-29	10/20/20	12:43	RMMR	10/21/20	AQ	Ground Water	MW-4-A
FA80016-30	10/20/20	13:48	RMMR	10/21/20	AQ	Ground Water	MW-3
FA80016-31	10/20/20	14:18	RMMR	10/21/20	AQ	Ground Water	MW-3D
FA80016-31D	10/20/20	14:18	RMMR	10/21/20	AQ	Water Dup/MSD	MW-3D
FA80016-31S	10/20/20	14:18	RMMR	10/21/20	AQ	Water Matrix Spike	MW-3D
FA80016-32	10/20/20	12:05	RMMR	10/21/20	AQ	Ground Water	MW-14

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FA80016

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date:** 11/4/2020 5:57:22 PM

30 Samples and 2 Trip Blanks were collected on between 10/19/2020 and 10/20/2020 and were received at SGS North America Inc - Orlando on 10/21/2020 properly preserved, at 0.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA80016. 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 8260D

Matrix: AQ **Batch ID:** VP3012

All samples were analyzed within the recommended method holding time.

Sample(s) FA80016-26MS, FA80016-26MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recovery(s) for Tetrachloroethylene, Trichloroethylene are outside control limits. Probable cause is due to matrix interference.

FA80016-1 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-1: Sample was not preserved to a pH < 2.

FA80016-3 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-3: Sample was not preserved to a pH < 2.

FA80016-4 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-4: Sample was not preserved to a pH < 2.

FA80016-5 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-5: Sample was not preserved to a pH < 2.

FA80016-6 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-6: Sample was not preserved to a pH < 2.

FA80016-7 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-7: Sample was not preserved to a pH < 2.

FA80016-8 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-8: Sample was not preserved to a pH < 2.

FA80016-9: Sample was not preserved to a pH < 2.

FA80016-10 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-10: Sample was not preserved to a pH < 2.

FA80016-11 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-11: Sample was not preserved to a pH < 2.

FA80016-12 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-12: Sample was not preserved to a pH < 2.

FA80016-13 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-13: Sample was not preserved to a pH < 2.

FA80016-14 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-14: Sample was not preserved to a pH < 2.

FA80016-15 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-15: Sample was not preserved to a pH < 2.

FA80016-16 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-16: Sample was not preserved to a pH < 2.

FA80016-17 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-17: Sample was not preserved to a pH < 2.

FA80016-18 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-18: Sample was not preserved to a pH < 2.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VP3012 (cont.)

FA80016-19 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-19: Sample was not preserved to a pH < 2.ple was not preserved to a pH < 2.

FA80016-2 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-2: Sample was not preserved to a pH < 2.

FA80016-26 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-26: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VP3013

All samples were analyzed within the recommended method holding time.

Sample(s) FA80016-31MS, FA80016-31MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

For Sample(s) FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32, FA80016-9 are associated with an CCV that has a recovery for Acetone outside low control limit.

FA80016-9 for Acetone: Associated CCV outside of control limits low.

FA80016-9 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-9: Sample was not preserved to a pH < 2.

FA80016-20 for Acetone: Associated CCV outside of control limits low.

FA80016-20 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-20: Sample was not preserved to a pH < 2.

FA80016-21 for Acetone: Associated CCV outside of control limits low.

FA80016-21 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-21: Sample was not preserved to a pH < 2.

FA80016-23 for Acetone: Associated CCV outside of control limits low.

FA80016-23 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-23: Sample was not preserved to a pH < 2.

FA80016-24 for Acetone: Associated CCV outside of control limits low.

FA80016-24 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-24: Sample was not preserved to a pH < 2.

FA80016-25 for Acetone: Associated CCV outside of control limits low.

FA80016-25 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-25: Sample was not preserved to a pH < 2.

FA80016-27 for Acetone: Associated CCV outside of control limits low.

FA80016-27 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-27: Sample was not preserved to a pH < 2.

FA80016-28 for Acetone: Associated CCV outside of control limits low.

FA80016-28 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-28: Sample was not preserved to a pH < 2.

FA80016-29 for Acetone: Associated CCV outside of control limits low.

FA80016-29 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-29: Sample was not preserved to a pH < 2.

FA80016-30 for Acetone: Associated CCV outside of control limits low.

FA80016-30 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-30: Sample was not preserved to a pH < 2.

FA80016-31 for Acetone: Associated CCV outside of control limits low.

FA80016-31 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-31: Sample was not preserved to a pH < 2.

FA80016-32 for Acetone: Associated CCV outside of control limits low.

FA80016-32 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80016-32: Sample was not preserved to a pH < 2.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VP3017

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA80054-10MS, FA80054-10MSD were used as the QC samples indicated.

FA80016-18: Sample was not preserved to a pH < 2.

FA80016-30: Sample was not preserved to a pH < 2.

FA80016-31: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VP3020

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA80016-22MS, FA80016-22MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Chloroethane 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, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone, Benzene, Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methyl Bromide, Methyl Chloride, Methylene Chloride, Styrene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene, Vinyl Chloride, Xylene (total) are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD 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, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone, Benzene, Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methyl Bromide, Methyl Chloride, Methylene Chloride, Styrene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene, Vinyl Chloride, Xylene (total) are outside control limits for sample FA80016-22MSD. Probable cause is due to sample non-homogeneity.

VP3020-MB: Sample was treated with an anti-foaming agent.

FA80016-22: Sample was not preserved to a pH < 2.

FA80016-22 for Chloroethane: Associated CCV outside of control limits high, sample was 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:

_____

Jenna Kravitz, Client Services *(Signature on File)*

Summary of Hits

Job Number: FA80016
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/20 thru 10/20/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA80016-1	**TRIP BLANK 1**					
No hits reported in this sample.						
FA80016-2	**TRIP BLANK 2**					
No hits reported in this sample.						
FA80016-3	**MW-34D**					
No hits reported in this sample.						
FA80016-4	**MW-15**					
No hits reported in this sample.						
FA80016-5	**MW-35D**					
No hits reported in this sample.						
FA80016-6	**MW-15D**					
No hits reported in this sample.						
FA80016-7	**MW-33D**					
Chloroform [a]		0.35 J	1.0	0.30	ug/l	SW846 8260D
Toluene [a]		0.33 J	1.0	0.30	ug/l	SW846 8260D
FA80016-8	**MW-15D1**					
No hits reported in this sample.						
FA80016-9	**MW-30D**					
1,1-Dichloroethylene [a]		2.0	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.99 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		80.2	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		0.80 J	1.0	0.35	ug/l	SW846 8260D
FA80016-10	**MW-29**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA80016
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/20 thru 10/20/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA80016-11	**MW-31D**					
1,1-Dichloroethylene [a]		3.0	2.5	0.81	ug/l	SW846 8260D
Tetrachloroethylene [a]		144	2.5	0.54	ug/l	SW846 8260D
FA80016-12	**MW-25D**					
1,1-Dichloroethylene [a]		2.3	2.0	0.64	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		1.2 J	2.0	0.55	ug/l	SW846 8260D
Tetrachloroethylene [a]		124	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		1.0 J	2.0	0.69	ug/l	SW846 8260D
FA80016-13	**MW-28**					
No hits reported in this sample.						
FA80016-14	**MW-16**					
Toluene [a]		0.72 J	1.0	0.30	ug/l	SW846 8260D
FA80016-15	**MW-16D**					
No hits reported in this sample.						
FA80016-16	**MW-32DR**					
1,1-Dichloroethylene [a]		0.41 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		26.3	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.47 J	1.0	0.35	ug/l	SW846 8260D
FA80016-17	**MW-32DR-A**					
1,1-Dichloroethylene [a]		0.50 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.28 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		28.3	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.41 J	1.0	0.35	ug/l	SW846 8260D
FA80016-18	**MW-10**					
1,1-Dichloroethylene [a]		9.4	2.0	0.64	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		180	2.0	0.55	ug/l	SW846 8260D
Tetrachloroethylene [a]		494	10	2.2	ug/l	SW846 8260D
Toluene [a]		1.5 J	2.0	0.60	ug/l	SW846 8260D
Trichloroethylene [a]		99.5	2.0	0.69	ug/l	SW846 8260D

Summary of Hits

Job Number: FA80016
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/20 thru 10/20/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA80016-19	**MW-26D**					
1,1-Dichloroethylene [b]		1.3	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [b]		1.0	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [b]		69.3	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [b]		1.1	1.0	0.35	ug/l	SW846 8260D
FA80016-20	**MW-10D**					
Tetrachloroethylene [a]		0.40 J	1.0	0.22	ug/l	SW846 8260D
FA80016-21	**MW-22D**					
1,1-Dichloroethylene [a]		1.1	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		87.5	1.0	0.22	ug/l	SW846 8260D
FA80016-22	**MW-22D-A**					
1,1-Dichloroethylene [a]		1.1	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		88.8	1.0	0.22	ug/l	SW846 8260D
FA80016-23	**MW-9D**					
No hits reported in this sample.						
FA80016-24	**MW-14D**					
1,1-Dichloroethylene [a]		0.85 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.49 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		53.1	1.0	0.22	ug/l	SW846 8260D
FA80016-25	**MW-14D-A**					
1,1-Dichloroethylene [a]		0.89 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.51 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		51.5	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.45 J	1.0	0.35	ug/l	SW846 8260D
FA80016-26	**MW-9**					
cis-1,2-Dichloroethylene [a]		17.3	5.0	1.4	ug/l	SW846 8260D
Tetrachloroethylene [a]		443	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		116	5.0	1.7	ug/l	SW846 8260D

Summary of Hits

Job Number: FA80016
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/20 thru 10/20/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA80016-27	**MW-23D**					
No hits reported in this sample.						
FA80016-28	**MW-4**					
No hits reported in this sample.						
FA80016-29	**MW-4-A**					
No hits reported in this sample.						
FA80016-30	**MW-3**					
cis-1,2-Dichloroethylene [a]		2.2	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		119	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		3.1	1.0	0.35	ug/l	SW846 8260D
FA80016-31	**MW-3D**					
1,1-Dichloroethylene [a]		5.9	2.5	0.81	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		8.0	2.5	0.69	ug/l	SW846 8260D
Tetrachloroethylene [a]		347	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		5.3	2.5	0.86	ug/l	SW846 8260D
FA80016-32	**MW-14**					
No hits reported in this sample.						

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK 1		
Lab Sample ID:	FA80016-1	**Date Sampled:**	10/19/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75308.D	1	10/22/20 10:57	SO	n/a	n/a	VP3012
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 [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
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:	TRIP BLANK 1		
Lab Sample ID:	FA80016-1	**Date Sampled:**	10/19/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	110%		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.

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:	TRIP BLANK 2		
Lab Sample ID:	FA80016-2	**Date Sampled:**	10/19/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75309.D	1	10/22/20 11:22	SO	n/a	n/a	VP3012
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 [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
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:	TRIP BLANK 2		
Lab Sample ID:	FA80016-2	**Date Sampled:**	10/19/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	110%		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.

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-34D		
Lab Sample ID:	FA80016-3	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75310.D	1	10/22/20 11:47	SO	n/a	n/a	VP3012
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 [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
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-34D		
Lab Sample ID:	FA80016-3	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	110%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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		
Lab Sample ID:	FA80016-4	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75311.D	1	10/22/20 12:12	SO	n/a	n/a	VP3012
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 [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
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		
Lab Sample ID:	FA80016-4	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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-35D
Lab Sample ID: FA80016-5
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/19/20
Date Received: 10/21/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P75312.D	1	10/22/20 12:37	SO	n/a	n/a	VP3012
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 [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
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-35D		
Lab Sample ID:	FA80016-5	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	110%		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.

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-15D		
Lab Sample ID:	FA80016-6	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75313.D	1	10/22/20 13:02	SO	n/a	n/a	VP3012
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 [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
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-15D		
Lab Sample ID:	FA80016-6	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	109%		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.

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-33D		
Lab Sample ID:	FA80016-7	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75314.D	1	10/22/20 13:27	SO	n/a	n/a	VP3012
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 [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	0.35	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	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	0.33	1.0	0.30	ug/l	J
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
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-33D		
Lab Sample ID:	FA80016-7	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	109%		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.

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-15D1		
Lab Sample ID:	FA80016-8	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75318.D	1	10/22/20 15:08	SO	n/a	n/a	VP3012
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 [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
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-15D1		
Lab Sample ID:	FA80016-8	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	110%		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.

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		
Lab Sample ID:	FA80016-9	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75339.D	1	10/23/20 11:29	SO	n/a	n/a	VP3013
Run #2 [a]	P75319.D	2	10/22/20 15:33	SO	n/a	n/a	VP3012

	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	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	0.99	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	80.2 [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	0.80	1.0	0.35	ug/l	J

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		
Lab Sample ID:	FA80016-9	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	79-125%
2037-26-5	Toluene-D8	108%	108%	85-112%
460-00-4	4-Bromofluorobenzene	104%	101%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits low.
(c) 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-29		
Lab Sample ID:	FA80016-10	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75320.D	1	10/22/20 15:58	SO	n/a	n/a	VP3012
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 [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
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		
Lab Sample ID:	FA80016-10	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	110%		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.

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		
Lab Sample ID:	FA80016-11	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75321.D	2.5	10/22/20 16:23	SO	n/a	n/a	VP3012
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	63	25	ug/l	
71-43-2	Benzene	ND	2.5	0.78	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.61	ug/l	
75-25-2	Bromoform	ND	2.5	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	13	5.0	ug/l	
75-15-0	Carbon Disulfide	ND	5.0	1.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.89	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.50	ug/l	
75-00-3	Chloroethane [b]	ND	5.0	1.7	ug/l	
67-66-3	Chloroform	ND	2.5	0.75	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.85	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.78	ug/l	
75-35-4	1,1-Dichloroethylene	3.0	2.5	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	0.69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.55	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.89	ug/l	
591-78-6	2-Hexanone	ND	25	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	1.5	ug/l	
74-87-3	Methyl Chloride	ND	5.0	1.3	ug/l	
75-09-2	Methylene Chloride	ND	13	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	2.5	ug/l	
100-42-5	Styrene	ND	2.5	0.56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.75	ug/l	
127-18-4	Tetrachloroethylene	144	2.5	0.54	ug/l	
108-88-3	Toluene	ND	2.5	0.75	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	1.2	ug/l	
79-01-6	Trichloroethylene	ND	2.5	0.86	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-31D		
Lab Sample ID:	FA80016-11	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	7.5	1.8	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	102%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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:	FA80016-12	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75322.D	2	10/22/20 16:48	SO	n/a	n/a	VP3012
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	50	20	ug/l	
71-43-2	Benzene	ND	2.0	0.62	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.48	ug/l	
75-25-2	Bromoform	ND	2.0	0.81	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.0	ug/l	
75-15-0	Carbon Disulfide	ND	4.0	1.1	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.0	0.71	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.40	ug/l	
75-00-3	Chloroethane [b]	ND	4.0	1.3	ug/l	
67-66-3	Chloroform	ND	2.0	0.60	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.55	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
75-35-4	1,1-Dichloroethylene	2.3	2.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	2.0	0.55	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.71	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	4.0	1.2	ug/l	
74-87-3	Methyl Chloride	ND	4.0	1.0	ug/l	
75-09-2	Methylene Chloride	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	2.0	0.44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	124	2.0	0.43	ug/l	
108-88-3	Toluene	ND	2.0	0.60	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.93	ug/l	
79-01-6	Trichloroethylene	1.0	2.0	0.69	ug/l	J

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:	FA80016-12	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	2.0	0.82	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

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

(a) Sample was not preserved to a pH < 2.
(b) 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		
Lab Sample ID:	FA80016-13	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75323.D	1	10/22/20 17:13	SO	n/a	n/a	VP3012
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 [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
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		
Lab Sample ID:	FA80016-13	**Date Sampled:**	10/19/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	109%		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.

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		
Lab Sample ID:	FA80016-14	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75324.D	1	10/22/20 17:38	SO	n/a	n/a	VP3012
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 [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	0.72	1.0	0.30	ug/l	J
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
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		
Lab Sample ID:	FA80016-14	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	110%		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.

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		
Lab Sample ID:	FA80016-15	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75325.D	1	10/22/20 18:03	SO	n/a	n/a	VP3012
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 [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
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		
Lab Sample ID:	FA80016-15	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	110%		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.

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		
Lab Sample ID:	FA80016-16	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75326.D	1	10/22/20 18:28	SO	n/a	n/a	VP3012
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 [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	0.41	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	26.3	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	0.47	1.0	0.35	ug/l	J

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		
Lab Sample ID:	FA80016-16	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	109%		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.

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		
Lab Sample ID:	FA80016-17	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75327.D	1	10/22/20 18:53	SO	n/a	n/a	VP3012
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 [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	0.50	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.28	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	28.3	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	0.41	1.0	0.35	ug/l	J

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		
Lab Sample ID:	FA80016-17	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	108%		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.

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		
Lab Sample ID:	FA80016-18	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75328.D	2	10/22/20 19:18	SO	n/a	n/a	VP3012
Run #2 [a]	P75430.D	10	10/26/20 15:49	SO	n/a	n/a	VP3017

	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	50	20	ug/l	
71-43-2	Benzene	ND	2.0	0.62	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.48	ug/l	
75-25-2	Bromoform	ND	2.0	0.81	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.0	ug/l	
75-15-0	Carbon Disulfide	ND	4.0	1.1	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.0	0.71	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.40	ug/l	
75-00-3	Chloroethane [b]	ND	4.0	1.3	ug/l	
67-66-3	Chloroform	ND	2.0	0.60	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.55	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
75-35-4	1,1-Dichloroethylene	9.4	2.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	180	2.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.71	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	4.0	1.2	ug/l	
74-87-3	Methyl Chloride	ND	4.0	1.0	ug/l	
75-09-2	Methylene Chloride	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	2.0	0.44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	494 [c]	10	2.2	ug/l	
108-88-3	Toluene	1.5	2.0	0.60	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.93	ug/l	
79-01-6	Trichloroethylene	99.5	2.0	0.69	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-10		
Lab Sample ID:	FA80016-18	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	2.0	0.82	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	79-125%
2037-26-5	Toluene-D8	108%	107%	85-112%
460-00-4	4-Bromofluorobenzene	102%	100%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits high, sample was ND.
(c) 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		
Lab Sample ID:	FA80016-19	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75329.D	1	10/22/20 19:43	SO	n/a	n/a	VP3012
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 [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	1.3	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.0	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	69.3	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	1.1	1.0	0.35	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-26D		
Lab Sample ID:	FA80016-19	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.ple was not preserved to a pH < 2.
(b) 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-10D		
Lab Sample ID:	FA80016-20	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75341.D	1	10/23/20 12:19	SO	n/a	n/a	VP3013
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 [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	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	0.40	1.0	0.22	ug/l	J
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
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-10D		
Lab Sample ID:	FA80016-20	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	110%		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 low.
(c) 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-22D		
Lab Sample ID:	FA80016-21	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75342.D	1	10/23/20 12:44	SO	n/a	n/a	VP3013
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 [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	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	1.1	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	87.5	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
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		
Lab Sample ID:	FA80016-21	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	110%		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 low.
(c) 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-22D-A		
Lab Sample ID:	FA80016-22	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75452.D	1	10/27/20 11:17	SO	n/a	n/a	VP3020
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 [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	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 [b]	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	88.8	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
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		
Lab Sample ID:	FA80016-22	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	107%		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.

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-9D		
Lab Sample ID:	FA80016-23	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75344.D	1	10/23/20 13:35	SO	n/a	n/a	VP3013
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 [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	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
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-9D		
Lab Sample ID:	FA80016-23	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	110%		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 low.
(c) 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-14D		
Lab Sample ID:	FA80016-24	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75350.D	1	10/23/20 16:03	SO	n/a	n/a	VP3013
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 [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	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	0.85	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.49	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	53.1	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
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		
Lab Sample ID:	FA80016-24	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		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 low.
(c) 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-14D-A		
Lab Sample ID:	FA80016-25	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75351.D	1	10/23/20 16:28	SO	n/a	n/a	VP3013
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 [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	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	0.89	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.51	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	51.5	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	0.45	1.0	0.35	ug/l	J

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-A		
Lab Sample ID:	FA80016-25	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	107%		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 low.
(c) 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-9		
Lab Sample ID:	FA80016-26	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75317.D	5	10/22/20 14:43	SO	n/a	n/a	VP3012
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 [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	17.3	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	443	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	116	5.0	1.7	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-9		
Lab Sample ID:	FA80016-26	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	107%		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.

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		
Lab Sample ID:	FA80016-27	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75352.D	1	10/23/20 16:53	SO	n/a	n/a	VP3013
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 [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	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
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		
Lab Sample ID:	FA80016-27	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	109%		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 low.
(c) 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-4		
Lab Sample ID:	FA80016-28	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75353.D	1	10/23/20 17:19	SO	n/a	n/a	VP3013
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 [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	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
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-4		
Lab Sample ID:	FA80016-28	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		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 low.
(c) 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-4-A		
Lab Sample ID:	FA80016-29	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75354.D	1	10/23/20 17:44	SO	n/a	n/a	VP3013
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 [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	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
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-4-A		
Lab Sample ID:	FA80016-29	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		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 low.
(c) 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-3		
Lab Sample ID:	FA80016-30	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75355.D	1	10/23/20 18:09	SO	n/a	n/a	VP3013
Run #2 [a]	P75435.D	2	10/26/20 17:54	SO	n/a	n/a	VP3017

	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	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	2.2	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	119 [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	3.1	1.0	0.35	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-3		
Lab Sample ID:	FA80016-30	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	96%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	79-125%
2037-26-5	Toluene-D8	108%	109%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits low.
(c) 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-3D		
Lab Sample ID:	FA80016-31	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75349.D	2.5	10/23/20 15:38	SO	n/a	n/a	VP3013
Run #2 [a]	P75436.D	5	10/26/20 18:20	SO	n/a	n/a	VP3017

	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	63	25	ug/l	
71-43-2	Benzene	ND	2.5	0.78	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.61	ug/l	
75-25-2	Bromoform	ND	2.5	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	13	5.0	ug/l	
75-15-0	Carbon Disulfide	ND	5.0	1.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.89	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.50	ug/l	
75-00-3	Chloroethane [c]	ND	5.0	1.7	ug/l	
67-66-3	Chloroform	ND	2.5	0.75	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.85	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.78	ug/l	
75-35-4	1,1-Dichloroethylene	5.9	2.5	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	8.0	2.5	0.69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.55	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.89	ug/l	
591-78-6	2-Hexanone	ND	25	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	1.5	ug/l	
74-87-3	Methyl Chloride	ND	5.0	1.3	ug/l	
75-09-2	Methylene Chloride	ND	13	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	2.5	ug/l	
100-42-5	Styrene	ND	2.5	0.56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.75	ug/l	
127-18-4	Tetrachloroethylene	347 [d]	5.0	1.1	ug/l	
108-88-3	Toluene	ND	2.5	0.75	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	1.2	ug/l	
79-01-6	Trichloroethylene	5.3	2.5	0.86	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-3D		
Lab Sample ID:	FA80016-31	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	7.5	1.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	100%	79-125%
2037-26-5	Toluene-D8	108%	109%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits low.
(c) 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-14		
Lab Sample ID:	FA80016-32	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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]	P75356.D	1	10/23/20 18:34	SO	n/a	n/a	VP3013
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 [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	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
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		
Lab Sample ID:	FA80016-32	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/21/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	110%		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 low.
(c) 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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA80016

AECOM

Chain of Custody and Analytical Request

Page 1 of 3
Project Number: 60624985.2a
Chain of Custody Number [1]:
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample Analysis Requested

Quality Assurance Samples

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
1	Trip Blank # 1	19-Oct-2020			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
2	Trip Blank #2	19-Oct-2020			X			X			7 DAY HOLDING TIME	
3	MW-34D	19-Oct-2020	1425			X		X				
4	MW-15	19-Oct-2020	1437			X		X				
5	MW-35D	19-Oct-2020	1505			X		X				
6	MW-15D	19-Oct-2020	1520			X		X				
7	MW-33D	19-Oct-2020	1530			X		X				
8	MW-15D2	19-Oct-2020	1537			X		X				
9	MW-30D	19-Oct-2020	1625			X		X				
10	MW-29	19-Oct-2020	1645			X		X				
11	MW-31D	19-Oct-2020	1655			X		X				
12	MW-25D	19-Oct-2020	1730			X		X			VITIALASSUMED	
13	MW-28	19-Oct-2020	1738			X		X			ARE UNVERIFICATION	
14	MW-16	20-Oct-2020	0833			X		X				
15	MW-16D	20-Oct-2020	0903			X		X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-2020	1500	1. FX		
2.	FX			2. Margaret Kozlu	10/21/20	9:30
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:
Shipped: XXXX
Airbill #:
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

0.4

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FA80016

AECOM

Chain of Custody and Analytical Request

Page 2 of 3
Project Number:
Chain of Custody Number (1):
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample Analysis Requested | **Quality Assurance Samples**

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
16	MW-32DR	20-Oct-20	0945			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	
17	MW-32DR-a	20-Oct-20	0945			X		X			7 DAY HOLDING TIME	
18	MW-10	20-Oct-20	0948			X		X				
19	MW-26D	20-Oct-20	1020			X		X				
20	MW-10D	20-Oct-20	1023			X		X				
21	MW-22D	20-Oct-20	1050			X		X				
22	MW-22D-a	20-Oct-20	1050			X		X				
23	MW-9D	20-Oct-20	1058			X		X				
24	MW-14D	20-Oct-20	1135			X		X				
25	MW-14D-a	20-Oct-20	1135			X		X				
26	MW-9	20-Oct-20	1135			X		X				
	MW-9-MS	20-Oct-20	1135			X		X				
	MW-9-MSD	20-Oct-20	1135			X		X				
27	MW-23D	20-Oct-20	1235			X		X				
28	MW-4	20-Oct-20	1243			X		X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-20	1500	1. FX		
2.	FX			2. Meredith Kesler	10/21/20	9:30
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:
Shipped: XXXX
Airbill #:
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

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FA800016

AECOM

Chain of Custody and Analytical Request

Page 3 of 3
Project Number:
Chain of Custody Number [1]:
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample Analysis Requested

Quality Assurance Samples

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	See Comments: GRAB	See Comments: Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
29	MW-4-a	20-Oct-20	1243			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	
30	MW-3	20-Oct-20	1348			X		X			7 DAY HOLDING TIME	
31	MW-3D-MS	20-Oct-2020	1418			X		X				
	MW-3D-MSD	20-Oct-2020	1418			X		X				
↓	MW-3D	20-Oct-2020	1418			X		X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-20	1500	1. Fx		
2.	Fx			2. Margaret Kaylor	10/21/20	9:30
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:
Shipped: XXXX
Airbill #:
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

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

SGS Sample Receipt Summary

Job Number: FA80016 **Client:** AECOM **Project:** UTC DELAVAN SPRAY TECH

Date / Time Received: 10/21/2020 9:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 923153806540

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** N/A

Cooler Temps (Raw Measured) °C: Cooler 1: (0.2);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☐		☐
4. Cooler temp verification	N/A		
5. Cooler media	N/A		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☑		☐	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
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 _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments RECEIVED THREE EXTRA 40ML VIALS ID: MW-14 COLLECTED 10/20/20 12:05. LABELED AS SAMPLE FA80016-32.

Technician: MAGALEAK Date: 10/21/2020 9:30:00 A Reviewer: _____ Date: _____

SM001
Rev. Date 05/24/17

CSR: Muna Mohammed **Response Date:** 10/23/20

Response: Per client request analyze sample MW-14.

SM001
Rev. Date 05/24/17

FA80016: Chain of Custody
Page 5 of 5

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3012-MB	P75307.D	1	10/22/20	SO	n/a	n/a	VP3012

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

FA80016-1, FA80016-2, FA80016-3, FA80016-4, FA80016-5, FA80016-6, FA80016-7, FA80016-8, FA80016-9, FA80016-10, FA80016-11, FA80016-12, FA80016-13, FA80016-14, FA80016-15, FA80016-16, FA80016-17, FA80016-18, FA80016-19, FA80016-26

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: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3012-MB	P75307.D	1	10/22/20	SO	n/a	n/a	VP3012

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

FA80016-1, FA80016-2, FA80016-3, FA80016-4, FA80016-5, FA80016-6, FA80016-7, FA80016-8, FA80016-9, FA80016-10, FA80016-11, FA80016-12, FA80016-13, FA80016-14, FA80016-15, FA80016-16, FA80016-17, FA80016-18, FA80016-19, FA80016-26

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	109%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3013-MB	P75337.D	1	10/23/20	SO	n/a	n/a	VP3013

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

FA80016-9, FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32

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: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3013-MB	P75337.D	1	10/23/20	SO	n/a	n/a	VP3013

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

FA80016-9, FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32

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

Method Blank Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3017-MB	P75417.D	1	10/26/20	SO	n/a	n/a	VP3017

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

FA80016-18, FA80016-30, FA80016-31

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	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	110%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Method Blank Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3020-MB [a]	P75449.D	1	10/27/20	SO	n/a	n/a	VP3020

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

FA80016-22

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: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3020-MB [a]	P75449.D	1	10/27/20	SO	n/a	n/a	VP3020

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

FA80016-22

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3012-BS	P75304.D	1	10/22/20	SO	n/a	n/a	VP3012

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

FA80016-1, FA80016-2, FA80016-3, FA80016-4, FA80016-5, FA80016-6, FA80016-7, FA80016-8, FA80016-9, FA80016-10, FA80016-11, FA80016-12, FA80016-13, FA80016-14, FA80016-15, FA80016-16, FA80016-17, FA80016-18, FA80016-19, FA80016-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	89.0	71	50-147
71-43-2	Benzene	25	21.5	86	81-122
75-27-4	Bromodichloromethane	25	21.4	86	79-123
75-25-2	Bromoform	25	18.9	76	66-123
78-93-3	2-Butanone (MEK)	125	86.4	69	56-143
75-15-0	Carbon Disulfide	25	17.6	70	66-148
56-23-5	Carbon Tetrachloride	25	22.3	89	76-136
108-90-7	Chlorobenzene	25	23.0	92	82-124
75-00-3	Chloroethane	25	23.8	95	62-144
67-66-3	Chloroform	25	22.5	90	80-124
124-48-1	Dibromochloromethane	25	22.3	89	78-122
75-34-3	1,1-Dichloroethane	25	22.4	90	81-122
107-06-2	1,2-Dichloroethane	25	20.3	81	75-125
75-35-4	1,1-Dichloroethylene	25	21.7	87	78-137
156-59-2	cis-1,2-Dichloroethylene	25	22.6	90	78-120
156-60-5	trans-1,2-Dichloroethylene	25	21.3	85	76-127
78-87-5	1,2-Dichloropropane	25	21.7	87	76-124
10061-01-5	cis-1,3-Dichloropropene	25	19.5	78	75-118
10061-02-6	trans-1,3-Dichloropropene	25	21.2	85	80-120
100-41-4	Ethylbenzene	25	22.6	90	81-121
591-78-6	2-Hexanone	125	94.4	76	61-129
74-83-9	Methyl Bromide	25	25.7	103	59-143
74-87-3	Methyl Chloride	25	20.7	83	50-159
75-09-2	Methylene Chloride	25	19.0	76	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	92.7	74	66-122
100-42-5	Styrene	25	21.4	86	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	21.6	86	72-120
127-18-4	Tetrachloroethylene	25	23.7	95	76-135
108-88-3	Toluene	25	21.7	87	80-120
71-55-6	1,1,1-Trichloroethane	25	22.3	89	75-130
79-00-5	1,1,2-Trichloroethane	25	22.1	88	76-119
79-01-6	Trichloroethylene	25	22.2	89	81-126
75-01-4	Vinyl Chloride	25	20.5	82	69-159
1330-20-7	Xylene (total)	75	67.6	90	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3012-BS	P75304.D	1	10/22/20	SO	n/a	n/a	VP3012

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

FA80016-1, FA80016-2, FA80016-3, FA80016-4, FA80016-5, FA80016-6, FA80016-7, FA80016-8, FA80016-9, FA80016-10, FA80016-11, FA80016-12, FA80016-13, FA80016-14, FA80016-15, FA80016-16, FA80016-17, FA80016-18, FA80016-19, FA80016-26

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3013-BS	P75334.D	1	10/23/20	SO	n/a	n/a	VP3013

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

FA80016-9, FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	85.3	68	50-147
71-43-2	Benzene	25	23.3	93	81-122
75-27-4	Bromodichloromethane	25	22.3	89	79-123
75-25-2	Bromoform	25	20.0	80	66-123
78-93-3	2-Butanone (MEK)	125	87.4	70	56-143
75-15-0	Carbon Disulfide	25	19.3	77	66-148
56-23-5	Carbon Tetrachloride	25	24.0	96	76-136
108-90-7	Chlorobenzene	25	24.5	98	82-124
75-00-3	Chloroethane	25	27.6	110	62-144
67-66-3	Chloroform	25	23.7	95	80-124
124-48-1	Dibromochloromethane	25	23.4	94	78-122
75-34-3	1,1-Dichloroethane	25	24.6	98	81-122
107-06-2	1,2-Dichloroethane	25	21.7	87	75-125
75-35-4	1,1-Dichloroethylene	25	23.2	93	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.3	97	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.5	94	76-127
78-87-5	1,2-Dichloropropane	25	23.3	93	76-124
10061-01-5	cis-1,3-Dichloropropene	25	20.5	82	75-118
10061-02-6	trans-1,3-Dichloropropene	25	21.7	87	80-120
100-41-4	Ethylbenzene	25	24.1	96	81-121
591-78-6	2-Hexanone	125	95.6	76	61-129
74-83-9	Methyl Bromide	25	29.1	116	59-143
74-87-3	Methyl Chloride	25	24.7	99	50-159
75-09-2	Methylene Chloride	25	20.1	80	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	93.9	75	66-122
100-42-5	Styrene	25	23.1	92	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	22.6	90	72-120
127-18-4	Tetrachloroethylene	25	24.9	100	76-135
108-88-3	Toluene	25	23.4	94	80-120
71-55-6	1,1,1-Trichloroethane	25	23.8	95	75-130
79-00-5	1,1,2-Trichloroethane	25	23.5	94	76-119
79-01-6	Trichloroethylene	25	22.9	92	81-126
75-01-4	Vinyl Chloride	25	24.0	96	69-159
1330-20-7	Xylene (total)	75	72.4	97	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3013-BS	P75334.D	1	10/23/20	SO	n/a	n/a	VP3013

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

FA80016-9, FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3017-BS	P75414.D	1	10/26/20	SO	n/a	n/a	VP3017

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

FA80016-18, FA80016-30, FA80016-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethylene	25	25.3	101	76-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3020-BS	P75446.D	1	10/27/20	SO	n/a	n/a	VP3020

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

FA80016-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	104	83	50-147
71-43-2	Benzene	25	23.5	94	81-122
75-27-4	Bromodichloromethane	25	23.0	92	79-123
75-25-2	Bromoform	25	21.2	85	66-123
78-93-3	2-Butanone (MEK)	125	105	84	56-143
75-15-0	Carbon Disulfide	25	18.9	76	66-148
56-23-5	Carbon Tetrachloride	25	24.8	99	76-136
108-90-7	Chlorobenzene	25	25.1	100	82-124
75-00-3	Chloroethane	25	33.6	134	62-144
67-66-3	Chloroform	25	24.4	98	80-124
124-48-1	Dibromochloromethane	25	25.0	100	78-122
75-34-3	1,1-Dichloroethane	25	24.6	98	81-122
107-06-2	1,2-Dichloroethane	25	22.4	90	75-125
75-35-4	1,1-Dichloroethylene	25	23.5	94	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.5	98	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.5	94	76-127
78-87-5	1,2-Dichloropropane	25	23.7	95	76-124
10061-01-5	cis-1,3-Dichloropropene	25	21.1	84	75-118
10061-02-6	trans-1,3-Dichloropropene	25	22.9	92	80-120
100-41-4	Ethylbenzene	25	24.3	97	81-121
591-78-6	2-Hexanone	125	113	90	61-129
74-83-9	Methyl Bromide	25	31.3	125	59-143
74-87-3	Methyl Chloride	25	28.9	116	50-159
75-09-2	Methylene Chloride	25	20.5	82	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	108	86	66-122
100-42-5	Styrene	25	23.2	93	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	72-120
127-18-4	Tetrachloroethylene	25	26.4	106	76-135
108-88-3	Toluene	25	23.6	94	80-120
71-55-6	1,1,1-Trichloroethane	25	24.4	98	75-130
79-00-5	1,1,2-Trichloroethane	25	24.3	97	76-119
79-01-6	Trichloroethylene	25	23.9	96	81-126
75-01-4	Vinyl Chloride	25	26.0	104	69-159
1330-20-7	Xylene (total)	75	72.9	97	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3020-BS	P75446.D	1	10/27/20	SO	n/a	n/a	VP3020

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

FA80016-22

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80016-26MS [a]	P75315.D	5	10/22/20	SO	n/a	n/a	VP3012
FA80016-26MSD [a]	P75316.D	5	10/22/20	SO	n/a	n/a	VP3012
FA80016-26 [a]	P75317.D	5	10/22/20	SO	n/a	n/a	VP3012

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

FA80016-1, FA80016-2, FA80016-3, FA80016-4, FA80016-5, FA80016-6, FA80016-7, FA80016-8, FA80016-9, FA80016-10, FA80016-11, FA80016-12, FA80016-13, FA80016-14, FA80016-15, FA80016-16, FA80016-17, FA80016-18, FA80016-19, FA80016-26

CAS No.	Compound	FA80016-26 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		625	482	77	625	466	75	3	50-147/21
71-43-2	Benzene	ND		125	117	94	125	103	82	13	81-122/14
75-27-4	Bromodichloromethane	ND		125	113	90	125	104	83	8	79-123/19
75-25-2	Bromoform	ND		125	99.6	80	125	93.2	75	7	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	473	76	625	454	73	4	56-143/18
75-15-0	Carbon Disulfide	ND		125	93.6	75	125	82.2	66	13	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	117	94	125	105	84	11	76-136/23
108-90-7	Chlorobenzene	ND		125	122	98	125	111	89	9	82-124/14
75-00-3	Chloroethane	ND		125	132	106	125	118	94	11	62-144/20
67-66-3	Chloroform	ND		125	119	95	125	105	84	13	80-124/15
124-48-1	Dibromochloromethane	ND		125	117	94	125	111	89	5	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	120	96	125	107	86	11	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	113	90	125	103	82	9	75-125/14
75-35-4	1,1-Dichloroethylene	ND		125	113	90	125	101	81	11	78-137/18
156-59-2	cis-1,2-Dichloroethylene	17.3		125	139	97	125	124	85	11	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	116	93	125	102	82	13	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	114	91	125	103	82	10	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	102	82	125	93.3	75	9	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	115	92	125	105	84	9	80-120/22
100-41-4	Ethylbenzene	ND		125	121	97	125	109	87	10	81-121/14
591-78-6	2-Hexanone	ND		625	515	82	625	509	81	1	61-129/18
74-83-9	Methyl Bromide	ND		125	119	95	125	109	87	9	59-143/19
74-87-3	Methyl Chloride	ND		125	101	81	125	95.5	76	6	50-159/19
75-09-2	Methylene Chloride	ND		125	107	86	125	96.2	77	11	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	509	81	625	491	79	4	66-122/16
100-42-5	Styrene	ND		125	114	91	125	106	85	7	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	118	94	125	110	88	7	72-120/14
127-18-4	Tetrachloroethylene	443		125	598	124	125	535	74* [b]	11	76-135/16
108-88-3	Toluene	ND		125	115	92	125	104	83	10	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	119	95	125	105	84	13	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	120	96	125	109	87	10	76-119/14
79-01-6	Trichloroethylene	116		125	245	103	125	215	79*	13	81-126/15
75-01-4	Vinyl Chloride	ND		125	108	86	125	96.1	77	12	69-159/18
1330-20-7	Xylene (total)	ND		375	361	96	375	323	86	11	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80016-26MS [a]	P75315.D	5	10/22/20	SO	n/a	n/a	VP3012
FA80016-26MSD [a]	P75316.D	5	10/22/20	SO	n/a	n/a	VP3012
FA80016-26 [a]	P75317.D	5	10/22/20	SO	n/a	n/a	VP3012

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

FA80016-1, FA80016-2, FA80016-3, FA80016-4, FA80016-5, FA80016-6, FA80016-7, FA80016-8, FA80016-9, FA80016-10, FA80016-11, FA80016-12, FA80016-13, FA80016-14, FA80016-15, FA80016-16, FA80016-17, FA80016-18, FA80016-19, FA80016-26

CAS No.	Surrogate Recoveries	MS	MSD	FA80016-26	Limits
1868-53-7	Dibromofluoromethane	98%	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	101%	79-125%
2037-26-5	Toluene-D8	101%	100%	107%	85-112%
460-00-4	4-Bromofluorobenzene	93%	95%	101%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80016-31MS	P75345.D	2.5	10/23/20	SO	n/a	n/a	VP3013
FA80016-31MSD	P75346.D	2.5	10/23/20	SO	n/a	n/a	VP3013
FA80016-31 [a]	P75349.D	2.5	10/23/20	SO	n/a	n/a	VP3013

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

FA80016-9, FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32

CAS No.	Compound	FA80016-31 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		313	281	90	313	255	82	10	50-147/21
71-43-2	Benzene	ND		62.5	66.9	107	62.5	61.1	98	9	81-122/14
75-27-4	Bromodichloromethane	ND		62.5	64.8	104	62.5	58.5	94	10	79-123/19
75-25-2	Bromoform	ND		62.5	58.4	93	62.5	53.7	86	8	66-123/21
78-93-3	2-Butanone (MEK)	ND		313	282	90	313	257	82	9	56-143/18
75-15-0	Carbon Disulfide	ND		62.5	52.3	84	62.5	47.5	76	10	66-148/23
56-23-5	Carbon Tetrachloride	ND		62.5	66.4	106	62.5	61.7	99	7	76-136/23
108-90-7	Chlorobenzene	ND		62.5	70.4	113	62.5	64.6	103	9	82-124/14
75-00-3	Chloroethane	ND		62.5	87.2	140	62.5	75.3	120	15	62-144/20
67-66-3	Chloroform	ND		62.5	66.6	107	62.5	62.2	100	7	80-124/15
124-48-1	Dibromochloromethane	ND		62.5	68.2	109	62.5	62.5	100	9	78-122/19
75-34-3	1,1-Dichloroethane	ND		62.5	67.9	109	62.5	62.8	100	8	81-122/15
107-06-2	1,2-Dichloroethane	ND		62.5	63.1	101	62.5	57.8	92	9	75-125/14
75-35-4	1,1-Dichloroethylene	5.9		62.5	68.8	101	62.5	63.5	92	8	78-137/18
156-59-2	cis-1,2-Dichloroethylene	8.0		62.5	74.1	106	62.5	67.4	95	9	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		62.5	64.0	102	62.5	59.2	95	8	76-127/17
78-87-5	1,2-Dichloropropane	ND		62.5	66.4	106	62.5	60.5	97	9	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		62.5	58.1	93	62.5	53.0	85	9	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		62.5	64.5	103	62.5	60.6	97	6	80-120/22
100-41-4	Ethylbenzene	ND		62.5	69.8	112	62.5	62.6	100	11	81-121/14
591-78-6	2-Hexanone	ND		313	307	98	313	273	87	12	61-129/18
74-83-9	Methyl Bromide	ND		62.5	71.5	114	62.5	68.6	110	4	59-143/19
74-87-3	Methyl Chloride	ND		62.5	60.9	97	62.5	57.2	92	6	50-159/19
75-09-2	Methylene Chloride	ND		62.5	60.6	97	62.5	55.8	89	8	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		313	298	95	313	274	88	8	66-122/16
100-42-5	Styrene	ND		62.5	66.8	107	62.5	60.4	97	10	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		62.5	68.8	110	62.5	63.9	102	7	72-120/14
127-18-4	Tetrachloroethylene	334	E	62.5	434	160* [b]	62.5	383	78	12	76-135/16
108-88-3	Toluene	ND		62.5	66.3	106	62.5	59.6	95	11	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		62.5	67.4	108	62.5	61.4	98	9	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		62.5	66.4	106	62.5	61.7	99	7	76-119/14
79-01-6	Trichloroethylene	5.3		62.5	72.2	107	62.5	66.0	97	9	81-126/15
75-01-4	Vinyl Chloride	ND		62.5	61.0	98	62.5	56.5	90	8	69-159/18
1330-20-7	Xylene (total)	ND		188	209	111	188	187	100	11	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80016-31MS	P75345.D	2.5	10/23/20	SO	n/a	n/a	VP3013
FA80016-31MSD	P75346.D	2.5	10/23/20	SO	n/a	n/a	VP3013
FA80016-31 [a]	P75349.D	2.5	10/23/20	SO	n/a	n/a	VP3013

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

FA80016-9, FA80016-20, FA80016-21, FA80016-23, FA80016-24, FA80016-25, FA80016-27, FA80016-28, FA80016-29, FA80016-30, FA80016-31, FA80016-32

CAS No.	Surrogate Recoveries	MS	MSD	FA80016-31	Limits
1868-53-7	Dibromofluoromethane	94%	96%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	97%	79-125%
2037-26-5	Toluene-D8	101%	101%	108%	85-112%
460-00-4	4-Bromofluorobenzene	93%	93%	99%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-10MS	P75425.D	200	10/26/20	SO	n/a	n/a	VP3017
FA80054-10MSD	P75426.D	200	10/26/20	SO	n/a	n/a	VP3017
FA80054-10 [a]	P75438.D	200	10/26/20	SO	n/a	n/a	VP3017

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

FA80016-18, FA80016-30, FA80016-31

CAS No.	Compound	FA80054-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	13900		5000	20300	128	5000	18500	92	9	76-135/16

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-10	Limits
1868-53-7	Dibromofluoromethane	95%	98%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	103%	79-125%
2037-26-5	Toluene-D8	99%	99%	106%	85-112%
460-00-4	4-Bromofluorobenzene	92%	94%	97%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80016-22MS	P75458.D	5	10/27/20	SO	n/a	n/a	VP3020
FA80016-22MSD	P75459.D	5	10/27/20	SO	n/a	n/a	VP3020
FA80016-22 [a]	P75452.D	1	10/27/20	SO	n/a	n/a	VP3020

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

FA80016-22

CAS No.	Compound	FA80016-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		625	579	93	625	165	26*	111*	50-147/21
71-43-2	Benzene	ND		125	131	105	125	37.5	30*	111*	81-122/14
75-27-4	Bromodichloromethane	ND		125	127	102	125	37.4	30*	109*	79-123/19
75-25-2	Bromoform	ND		125	106	85	125	31.3	25*	109*	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	570	91	625	171	27*	108*	56-143/18
75-15-0	Carbon Disulfide	ND		125	102	82	125	28.2	23*	113*	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	133	106	125	38.5	31*	110*	76-136/23
108-90-7	Chlorobenzene	ND		125	136	109	125	38.7	31*	111*	82-124/14
75-00-3	Chloroethane	ND		125	194	155*	125	30.7	25*	145*	62-144/20
67-66-3	Chloroform	ND		125	135	108	125	38.3	31*	112*	80-124/15
124-48-1	Dibromochloromethane	ND		125	130	104	125	36.2	29*	113*	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	137	110	125	39.0	31*	111*	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	126	101	125	35.3	28*	112*	75-125/14
75-35-4	1,1-Dichloroethylene	1.1		125	127	101	125	36.2	28*	111*	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	132	106	125	38.6	31*	109*	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	127	102	125	35.8	29*	112*	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	132	106	125	39.2	31*	108*	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	114	91	125	34.4	28*	107*	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	121	97	125	35.0	28*	110*	80-120/22
100-41-4	Ethylbenzene	ND		125	134	107	125	37.9	30*	112*	81-121/14
591-78-6	2-Hexanone	ND		625	641	103	625	179	29*	113*	61-129/18
74-83-9	Methyl Bromide	ND		125	155	124	125	46.4	37*	108*	59-143/19
74-87-3	Methyl Chloride	ND		125	158	126	125	43.0	34*	114*	50-159/19
75-09-2	Methylene Chloride	ND		125	115	92	125	33.9	27*	109*	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	624	100	625	171	27*	114*	66-122/16
100-42-5	Styrene	ND		125	127	102	125	35.7	29*	112*	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	128	102	125	37.7	30*	109*	72-120/14
127-18-4	Tetrachloroethylene	88.8		125	217	103	125	59.5	-23*	114*	76-135/16
108-88-3	Toluene	ND		125	127	102	125	35.4	28*	113*	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	133	106	125	37.9	30*	111*	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	131	105	125	37.1	30*	112*	76-119/14
79-01-6	Trichloroethylene	ND		125	135	108	125	37.5	30*	113*	81-126/15
75-01-4	Vinyl Chloride	ND		125	154	123	125	39.6	32*	118*	69-159/18
1330-20-7	Xylene (total)	ND		375	397	106	375	108	29*	114*	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80016
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80016-22MS	P75458.D	5	10/27/20	SO	n/a	n/a	VP3020
FA80016-22MSD	P75459.D	5	10/27/20	SO	n/a	n/a	VP3020
FA80016-22 [a]	P75452.D	1	10/27/20	SO	n/a	n/a	VP3020

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

FA80016-22

CAS No.	Surrogate Recoveries	MS	MSD	FA80016-22	Limits
1868-53-7	Dibromofluoromethane	101%	97%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	95%	98%	79-125%
2037-26-5	Toluene-D8	100%	97%	107%	85-112%
460-00-4	4-Bromofluorobenzene	93%	95%	100%	83-118%

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

* = Outside of Control Limits.

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

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Automated Report

Technical Report for

Raytheon Technologies

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60629985

SGS Job Number: FA80054

Sampling Dates: 10/20/20 - 10/21/20



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Total number of pages in report: **127**

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.

Norm Farmer
Technical Director

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FA80054

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60629985

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA80054-1	10/20/20	00:00	RMMR	10/22/20	AQ	Trip Blank Water	TRIP BLANK 3
FA80054-2	10/20/20	00:00	RMMR	10/22/20	AQ	Trip Blank Water	TRIP BLANK 4
FA80054-3	10/20/20	13:35	RMMR	10/22/20	AQ	Ground Water	MW-24
FA80054-4	10/20/20	13:35	RMMR	10/22/20	AQ	Ground Water	MW-24-A
FA80054-5	10/20/20	14:05	RMMR	10/22/20	AQ	Ground Water	MW-5
FA80054-6	10/20/20	14:40	RMMR	10/22/20	AQ	Ground Water	MW-6
FA80054-7	10/20/20	15:20	RMMR	10/22/20	AQ	Ground Water	MW-17
FA80054-8	10/20/20	15:50	RMMR	10/22/20	AQ	Ground Water	MW-18
FA80054-9	10/20/20	16:15	RMMR	10/22/20	AQ	Ground Water	MW-37
FA80054-10	10/20/20	16:50	RMMR	10/22/20	AQ	Ground Water	MW-21
FA80054-11	10/20/20	16:53	RMMR	10/22/20	AQ	Ground Water	MW-20
FA80054-12	10/20/20	17:20	RMMR	10/22/20	AQ	Ground Water	MW-21D

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Sample Summary
(continued)

Raytheon Technologies

Job No: FA80054

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60629985

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA80054-13	10/20/20	17:40	RMMR	10/22/20	AQ	Ground Water	MW-19
FA80054-14	10/20/20	17:50	RMMR	10/22/20	AQ	Ground Water	MW-2
FA80054-15	10/21/20	08:28	RMMR	10/22/20	AQ	Ground Water	MW-36D
FA80054-16	10/21/20	08:50	RMMR	10/22/20	AQ	Ground Water	MW-7
FA80054-17	10/21/20	09:25	RMMR	10/22/20	AQ	Ground Water	MW-3D1
FA80054-18	10/21/20	09:58	RMMR	10/22/20	AQ	Ground Water	MW-12D
FA80054-19	10/21/20	10:30	RMMR	10/22/20	AQ	Ground Water	MW-11
FA80054-20	10/21/20	10:48	RMMR	10/22/20	AQ	Ground Water	MW-27
FA80054-21	10/21/20	11:30	RMMR	10/22/20	AQ	Ground Water	MW-13D
FA80054-22	10/21/20	11:10	RMMR	10/22/20	AQ	Ground Water	MW-1
FA80054-23	10/21/20	11:45	RMMR	10/22/20	AQ	Ground Water	MW-8
FA80054-24	10/21/20	12:00	RMMR	10/22/20	AQ	Water	AQUEOUS IDW
FA80054-25	10/21/20	12:40	RMMR	10/22/20	AQ	Surface Water	SW-01-LC

Sample Summary
(continued)

Raytheon Technologies

Job No: FA80054

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60629985

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA80054-26	10/21/20	13:00	RMMR	10/22/20	AQ	Surface Water	SW-04-TLC
FA80054-27	10/21/20	13:15	RMMR	10/22/20	AQ	Surface Water	SW-02-LC
FA80054-28	10/21/20	13:30	RMMR	10/22/20	AQ	Surface Water	SW-03-HMB

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FA80054

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date** 11/5/2020 3:11:27

26 Sample(s), 2 Trip Blank(s) and 0 Field Blank(s) were collected on between 10/20/2020 and 10/21/2020 and were received at SGS North America Inc - Orlando on 10/22/2020 properly preserved, at 0.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA80054. 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 8260D

Matrix: AQ **Batch ID:** VI2151

All samples were analyzed within the recommended method holding time.

Sample(s) FA80054-23MS, FA80054-23MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Methyl Bromide are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Methyl Bromide are outside control limits. Probable cause is due to matrix

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FA80054-23MSD. Probable cause is due to sample non-homogeneity.

FA80054-1: Sample was not preserved to a pH < 2. Confirmation run.

FA80054-21: Sample was not preserved to a pH < 2.

FA80054-22: Sample was not preserved to a pH < 2.

FA80054-23: Sample was not preserved to a pH < 2.

FA80054-24: Sample was not preserved to a pH < 2.

FA80054-25: Sample was not preserved to a pH < 2.

FA80054-26: Sample was not preserved to a pH < 2.

FA80054-27: Sample was not preserved to a pH < 2.

FA80054-28: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VP3016

All samples were analyzed within the recommended method holding time.

Sample(s) FA80054-3MS, FA80054-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

FA80054-1 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-1: Sample was not preserved to a pH < 2.

FA80054-2 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-2: Sample was not preserved to a pH < 2.

FA80054-3 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-3: Sample was not preserved to a pH < 2.

FA80054-4 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-4: Sample was not preserved to a pH < 2.

FA80054-5 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-5: Sample was not preserved to a pH < 2.

FA80054-6 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-6: Sample was not preserved to a pH < 2.

FA80054-7 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-7: Sample was not preserved to a pH < 2.

FA80054-8 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-8: Sample was not preserved to a pH < 2.

FA80054-9 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-9: Sample was not preserved to a pH < 2.

FA80054-11 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-11: Sample was not preserved to a pH < 2.

FA80054-12 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA80054-12: Sample was not preserved to a pH < 2.

FA80054-13 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-13: Sample was not preserved to a pH < 2.
FA80054-14 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-14: Sample was not preserved to a pH < 2.
FA80054-15 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-15: Sample was not preserved to a pH < 2.
FA80054-16 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-16: Sample was not preserved to a pH < 2.
FA80054-17 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-17: Sample was not preserved to a pH < 2.
FA80054-18 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-18: Sample was not preserved to a pH < 2.
FA80054-19 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-19: Sample was not preserved to a pH < 2.
FA80054-20 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-20: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VP3017

All samples were analyzed within the recommended method holding time.
Sample(s) FA80054-10MS, FA80054-10MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
For Sample(s) FA80054-10 are associated with an CCV that has a recovery for Acetone outside lower control limit.
FA80054-4: Sample was not preserved to a pH < 2.
FA80054-10: Sample was not preserved to a pH < 2.
FA80054-10 for Acetone: Associated CCV outside of control limits low.
FA80054-10 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
FA80054-11: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VY2226

All samples were analyzed within the recommended method holding time.
Sample(s) FA80054-24MS, FA80054-24MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
Blank Spike Recovery(s) for Bromoform, Dibromochloromethane are outside control limits.
Matrix Spike Recovery(s) for Bromoform are outside control limits. Probable cause is due to matrix interference.
Matrix Spike Duplicate Recovery(s) for Bromoform are outside control limits. Probable cause is due to matrix interference.
FA80054-22 for Bromoform: Associated CCV and BS outside control limits low.
FA80054-22 for Dibromochloromethane: Associated BS recovery outside control limits low.
FA80054-22: Sample was not preserved to a pH < 2.
FA80054-23 for Bromoform: Associated CCV and BS outside control limits low.
FA80054-23 for Dibromochloromethane: Associated BS recovery outside control limits low.
FA80054-23: Sample was not preserved to a pH < 2.
FA80054-24: Sample was not preserved to a pH < 2.
FA80054-25: Sample was not preserved to a pH < 2. Confirmation run.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP82704

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) FA80054-24MS, FA80054-24MSD were used as the QC samples indicated.
OP82704-BS for 4-Bromophenyl Phenyl Ether: Sporadic marginal failure.
OP82704-BS for Pentachlorophenol: Sporadic marginal failure.
Blank Spike Recovery(s) for Hexachlorobenzene, 4-Bromophenyl Phenyl Ether, Pentachlorophenol are outside control limits.
Matrix Spike Recovery(s) for 2,4,5-Trichlorophenol, 2-Chlorophenol, 4,6-Dinitro-o-cresol, 4-Bromophenyl Phenyl Ether, 4-Chlorophenyl Phenyl Ether, Hexachlorobenzene, Pentachlorophenol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,6-Dinitrotoluene, 2-Chloronaphthalene, 2-Chlorophenol, 2-Methylphenol, 3,3'-Dichlorobenzidine, 4,6-Dinitro-o-cresol, 4-Bromophenyl Phenyl Ether, 4-Chloro-3-methyl Phenol, 4-Chlorophenyl Phenyl Ether, Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, Chrysene, Di-n-butyl Phthalate, Dibenzo(a,h)anthracene, Dibenzofuran, Diethyl Phthalate, Dimethyl Phthalate, Fluoranthene, Fluorene, Hexachlorobenzene, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

FA80054-24 for Pentachlorophenol: Associated BS recovery outside control limits.

FA80054-24 for 4-Bromophenyl Phenyl Ether: Associated BS recovery outside control limits.

FA80054-24 for Hexachlorobenzene: Associated BS recovery outside control limits.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP38068

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

MP38068-MB1 for Antimony: All associated samples with results >MDL "B" coded.

MP38068-MB1 for Thallium: Negative bias.

Sample(s) FA80054-24DUP, FA80054-24MS, FA80054-24MSD, FA80054-24PS, FA80054-24SDL, were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony, Lead, Selenium are outside control limits for sample MP38068-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Beryllium, Lead, Nickel, Selenium are outside control limits for sample MP38068-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA80054-24 for Antimony: Analyte detected in the associated MB.

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP38050

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) FA80049-1FDUP, FA80049-1FMS, FA80049-1FMSD, FA80049-1FSDL were used as the QC samples for metals.

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:

_____

Ariel Hartney, Client Services *(Signature on File)*

Laboratory Report Glossary

SDG: Sample delivery group.
Client Sample ID: Refers to a point of collection – a monitoring well, discharge outfall, treatment facility intake, soil core grid location and depth, or any other identification client assigns to a sample.
Lab Sample ID: Combination of letters and numbers which identifies one of the SGS North America Laboratories that received the SDG, or sample delivery group. The rest is a consecutive number of the job (or SDG) received. Number after dash is an individual sample number and it is unequivocally linked in LIMS to the Client Sample ID (see above).

Matrix (Matrix Code):

- **AQ**- Water Samples
- **SO**- Soil/Solid Samples
- **LIQ**- Non-Water Liquid Samples
- **OIL**- Oil Samples

Matrix Type:

- **SW** for Surface Water
- **SO** for Soil/Sediment
- **GW** for Ground Water
- **DW** for Drinking Water

All available definitions are found on Chain of Custody form.

Deg. C: Degrees Celsius, measurement of temperature.
Method: Analytical and preparation methods used for the analysis, with the version or revision identified.
Date Sampled: This information is entered from Chain of Custody at the time of login for every sample.
Date Received: When the job was received by an SGS North America, Inc Laboratory.
Percent Solids: Applicable only to SO matrix. For other matrices this field defaults to "n/a".
Run #: Provides information on how many attempts were made in the analysis of the sample. LIMS can merge information from several attempts and lists all of them, including dilution, confirmation, etc. #1 designation is assigned to the analytical run with majority of analytes reported from it, not necessarily in chronological order.
File ID: Actual instrument data acquisition file that produced the final result. Letter prefix identifies the instrument; the rest is a consecutive injection number for that instrument.
DF (Dilution Factor): Number indicating the dilution performed on the sample. If DF is 1, no dilution was performed. DF other than 1 are accompanied with a comment at the end of the sample report. Most common reasons for sample dilution are either to obtain results that fit into the calibration range of the instrument, or alleviate matrix interference.
Analyzed: Date of analysis.
By: Field Technician or Analyst uniquely identified by initials.
Prep Date: Date of sample preparation. If hold time is 72 hours or less, time of preparation is also indicated.
Prep Batch: Letter prefix OP followed by a consecutive number. For VOC analysis, preparation happens at the time of analysis, therefore analytical batch and preparation batch are the same. The size of a prep batch is limited to 20 field samples of similar matrix and the entire batch must be completed within a 12Hr timeframe.
Analytical Batch: A group of samples which are similar with respect to matrix and the testing procedures being employed and which are processed as a unit. A sample batch is limited to a maximum of 20 samples or samples loaded on an instrument within the same 12-hour shift, whichever comes first.
Initial Weight or Initial Volume: Raw sample size used for preparation.
Final Volume: Final volume of extract. If different from method-prescribed volume, reasons are reflected in the comments at the end of the report form.
Compound: Most commonly used names of chemical compounds.
CAS Number: *Chemical Abstracts Service* (CAS), a division of the *American Chemical Society*.
Result: Depending on project requirements, this field could be set up as text, such as ND (for Non Detected) or a number. The number may be reported with a qualifier.

MDL (Method Detection Limit): This value is defined as 99% probability that analyte above this concentration is positively (qualitatively) identified.
RL (Reporting Limit): This value is supported by the low calibration standard and defines lowest point of quantitative identification of analyte.
DL (Detection Limit): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type I error) is 1%.
LOD (Limit of Detection): The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%.
LOQ (Limit of Quantitation): The smallest concentration that produces a quantitative result with known and recorded precision and bias.
Units: ug/l (micrograms per liter) for aqueous samples and ug/kg (micrograms per kilogram) for solids (or ppb – parts per billion). The units could be set according to project or state-specific requirements, such as mg/l (milligrams per liter), or mg/kg (milligrams per kilogram).
Qualifiers (Q): Definitions of most often used qualifiers are found at the bottom of each result page. Applied depending on the program – state-specific (Florida A.C. 62-160), CLP-like, AFCEE, DOD QSM, etc.
Tentatively Identified Compound (TIC): Used when client requests a search for analytes that are not part of instrument calibration. Unknown peaks are compared with published spectral libraries and best match is reported as TIC.
Surrogate (S1, S2, S3 etc.): are positive controls that are used in most organics methods to ascertain preparation efficiency and matrix effect in individual samples. These chemicals mimic common method constituents but are unlikely to be found in real samples. Recoveries can be reported for every analytical run used in the analysis.
IS (Internal Standard IS1, IS2, IS3, etc): quantitative reference used to monitor instrument performance fluctuations.
Area (of chromatographic peak): signal intensity directly related to compound concentration.
RT (Retention Time): time required for analyte to traverse the length of analytical column. Used for compound identification.
ICAL (Initial Calibration): Must pass calibration criteria established by method.
ICV (Independent Calibration Verification): Used to verify ICAL preparation and concentration of calibration points.
CCV (Continuing Calibration Verification): Used to assess calibration status of the instrument and must recover within established acceptance criteria.
MB (Method Blank): is a negative batch control. MB is an aliquot of matrix free of analyte of interest (either ASTM Type II water or appropriate solid substance) that is put through all the preparation and possible clean-up steps alongside investigative (field) samples. MB should be free of interferences above a set level.
Blank Spike (BS), Laboratory Control Sample (LCS), Laboratory Fortified Blank (LFB): An analyte-free matrix spiked with a known amount of analyte(s), processed simultaneously with the samples through all the steps of the analytical procedure. Blank Spike Recoveries are used to document laboratory performance for a given method. This may also be called a Laboratory Control Sample (LCS). **);** It is a positive control used to determine method accuracy - in clean matrix, i.e. matrix free of analytes of interest.
BSD (Blank Spike Duplicate): Used to assess recovery reproducibility - method precision – per analytical method requirement. %Recovery and Relative Percent Difference (%RPD) are compared with the established laboratory acceptance criteria.
MS and/or **MSD (Matrix Spike and Matrix Spike Duplicate):** positive batch controls (spikes of a known amount) which indicate matrix effect on the precision and accuracy of the method in given sample matrix.). Results are compared with the established laboratory acceptance criteria and are expressed as %Recovery and Relative Percent Difference (%RPD).
DUP (Sample Matrix Duplicate): Positive batch control, a way of assessing laboratory's precision; however, the composition of the sample is unknown and may not yield meaningful results.
REC (Recovery in Percent): expresses method accuracy.
RPD (Relative Percent Difference): expresses method precision.
Limits: Recovery limits for surrogates and spikes.

Summary of Hits

Job Number: FA80054
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/20/20 thru 10/21/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA80054-1	**TRIP BLANK 3**					
No hits reported in this sample.						
FA80054-2	**TRIP BLANK 4**					
No hits reported in this sample.						
FA80054-3	**MW-24**					
cis-1,2-Dichloroethylene [a]		14.8 J	25	6.9	ug/l	SW846 8260D
Tetrachloroethylene [a]		1850	25	5.4	ug/l	SW846 8260D
FA80054-4	**MW-24-A**					
cis-1,2-Dichloroethylene [a]		17.2	10	2.8	ug/l	SW846 8260D
Tetrachloroethylene [a]		1710	25	5.4	ug/l	SW846 8260D
Trichloroethylene [a]		4.8 J	10	3.5	ug/l	SW846 8260D
FA80054-5	**MW-5**					
Tetrachloroethylene [a]		0.89 J	1.0	0.22	ug/l	SW846 8260D
FA80054-6	**MW-6**					
No hits reported in this sample.						
FA80054-7	**MW-17**					
No hits reported in this sample.						
FA80054-8	**MW-18**					
No hits reported in this sample.						
FA80054-9	**MW-37**					
1,1-Dichloroethylene [a]		95.2 J	250	81	ug/l	SW846 8260D
Tetrachloroethylene [a]		24700	250	54	ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		104 J	250	62	ug/l	SW846 8260D
FA80054-10	**MW-21**					
cis-1,2-Dichloroethylene [a]		689	200	55	ug/l	SW846 8260D
Tetrachloroethylene [a]		13900	200	43	ug/l	SW846 8260D

Summary of Hits

Job Number: FA80054
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/20/20 thru 10/21/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethylene [a]		314	200	69	ug/l	SW846 8260D
FA80054-11	**MW-20**					
Tetrachloroethylene [a]		271	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		3.6	2.5	0.86	ug/l	SW846 8260D
FA80054-12	**MW-21D**					
Tetrachloroethylene [a]		9.8	1.0	0.22	ug/l	SW846 8260D
FA80054-13	**MW-19**					
Tetrachloroethylene [a]		45600	500	110	ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		263 J	500	120	ug/l	SW846 8260D
FA80054-14	**MW-2**					
Tetrachloroethylene [a]		1.4	1.0	0.22	ug/l	SW846 8260D
FA80054-15	**MW-36D**					
Tetrachloroethylene [a]		0.52 J	1.0	0.22	ug/l	SW846 8260D
FA80054-16	**MW-7**					
No hits reported in this sample.						
FA80054-17	**MW-3D1**					
No hits reported in this sample.						
FA80054-18	**MW-12D**					
Tetrachloroethylene [a]		47.3	1.0	0.22	ug/l	SW846 8260D
FA80054-19	**MW-11**					
No hits reported in this sample.						
FA80054-20	**MW-27**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA80054
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/20/20 thru 10/21/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA80054-21	**MW-13D**					
1,1-Dichloroethylene [a]		2.7	2.0	0.64	ug/l	SW846 8260D
Tetrachloroethylene [a]		139	2.0	0.43	ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		0.51 J	2.0	0.50	ug/l	SW846 8260D
FA80054-22	**MW-1**					
cis-1,2-Dichloroethylene [a]		2.4	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		103	10	2.2	ug/l	SW846 8260D
Trichloroethylene [a]		2.9	1.0	0.35	ug/l	SW846 8260D
FA80054-23	**MW-8**					
cis-1,2-Dichloroethylene [a]		7.3	2.5	0.69	ug/l	SW846 8260D
Tetrachloroethylene [a]		355	10	2.2	ug/l	SW846 8260D
Trichloroethylene [a]		43.6	2.5	0.86	ug/l	SW846 8260D
FA80054-24	**AQUEOUS IDW**					
Acetone [a]		40.8	25	10	ug/l	SW846 8260D
1,1-Dichloroethylene [a]		0.91 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		3.7	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		290	10	2.2	ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		1.8	1.0	0.25	ug/l	SW846 8260D
Trichloroethylene [a]		4.4	1.0	0.35	ug/l	SW846 8260D
Antimony [b]		4.1 JB	6.0	1.0	ug/l	SW846 6010D
Beryllium		0.56 J	4.0	0.20	ug/l	SW846 6010D
Chromium		33.3	10	1.0	ug/l	SW846 6010D
Copper		32.6	25	1.0	ug/l	SW846 6010D
Lead		3.8 J	5.0	1.1	ug/l	SW846 6010D
Nickel		8.0 J	40	0.40	ug/l	SW846 6010D
Zinc		61.3	20	4.4	ug/l	SW846 6010D
FA80054-25	**SW-01-LC**					
cis-1,2-Dichloroethylene [a]		0.44 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		2.9	1.0	0.22	ug/l	SW846 8260D
FA80054-26	**SW-04-TLC**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA80054
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/20/20 thru 10/21/20

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA80054-27 **SW-02-LC**

No hits reported in this sample.

FA80054-28 **SW-03-HMB**

No hits reported in this sample.

(a) Sample was not preserved to a pH < 2.
(b) Analyte detected in the associated MB.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK 3		
Lab Sample ID:	FA80054-1	**Date Sampled:**	10/20/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75388.D	1	10/25/20 12:16	SP	n/a	n/a	VP3016
Run #2 [b]	I67361.D	1	10/25/20 21:06	SP	n/a	n/a	VI2151

	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 [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 [c]	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
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:	TRIP BLANK 3		
Lab Sample ID:	FA80054-1	**Date Sampled:**	10/20/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	96%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	79-125%
2037-26-5	Toluene-D8	110%	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Confirmation run.
(c) 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:	TRIP BLANK 4		
Lab Sample ID:	FA80054-2	**Date Sampled:**	10/20/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75389.D	1	10/25/20 12:41	SP	n/a	n/a	VP3016
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 [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 [b]	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
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:	TRIP BLANK 4		
Lab Sample ID:	FA80054-2	**Date Sampled:**	10/20/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	108%		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.

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		
Lab Sample ID:	FA80054-3	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75390.D	25	10/25/20 13:07	SP	n/a	n/a	VP3016
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	630	250	ug/l	
71-43-2	Benzene	ND	25	7.8	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.1	ug/l	
75-25-2	Bromoform	ND	25	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	130	50	ug/l	
75-15-0	Carbon Disulfide	ND	50	13	ug/l	
56-23-5	Carbon Tetrachloride	ND	25	8.9	ug/l	
108-90-7	Chlorobenzene	ND	25	5.0	ug/l	
75-00-3	Chloroethane [b]	ND	50	17	ug/l	
67-66-3	Chloroform	ND	25	7.5	ug/l	
124-48-1	Dibromochloromethane	ND	25	6.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	8.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	7.8	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	8.1	ug/l	
156-59-2	cis-1,2-Dichloroethylene	14.8	25	6.9	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	25	5.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	7.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	5.4	ug/l	
100-41-4	Ethylbenzene	ND	25	8.9	ug/l	
591-78-6	2-Hexanone	ND	250	50	ug/l	
74-83-9	Methyl Bromide [b]	ND	50	15	ug/l	
74-87-3	Methyl Chloride	ND	50	13	ug/l	
75-09-2	Methylene Chloride	ND	130	50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	130	25	ug/l	
100-42-5	Styrene	ND	25	5.6	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	7.5	ug/l	
127-18-4	Tetrachloroethylene	1850	25	5.4	ug/l	
108-88-3	Toluene	ND	25	7.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	6.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	12	ug/l	
79-01-6	Trichloroethylene	ND	25	8.6	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		
Lab Sample ID:	FA80054-3	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	25	10	ug/l	
1330-20-7	Xylene (total)	ND	75	18	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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-24-A		
Lab Sample ID:	FA80054-4	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75391.D	10	10/25/20 13:32	SP	n/a	n/a	VP3016
Run #2 [a]	P75437.D	25	10/26/20 18:45	SO	n/a	n/a	VP3017

	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	250	100	ug/l	
71-43-2	Benzene	ND	10	3.1	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.4	ug/l	
75-25-2	Bromoform	ND	10	4.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	20	ug/l	
75-15-0	Carbon Disulfide	ND	20	5.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	10	3.6	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane [b]	ND	20	6.7	ug/l	
67-66-3	Chloroform	ND	10	3.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	3.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	3.2	ug/l	
156-59-2	cis-1,2-Dichloroethylene	17.2	10	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.2	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	4.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.1	ug/l	
100-41-4	Ethylbenzene	ND	10	3.6	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	
74-83-9	Methyl Bromide [b]	ND	20	5.9	ug/l	
74-87-3	Methyl Chloride	ND	20	5.0	ug/l	
75-09-2	Methylene Chloride	ND	50	20	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	10	ug/l	
100-42-5	Styrene	ND	10	2.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
127-18-4	Tetrachloroethylene	1710 [c]	25	5.4	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	4.7	ug/l	
79-01-6	Trichloroethylene	4.8	10	3.5	ug/l	J

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-A		
Lab Sample ID:	FA80054-4	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	10	4.1	ug/l	
1330-20-7	Xylene (total)	ND	30	7.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	79-125%
2037-26-5	Toluene-D8	107%	106%	85-112%
460-00-4	4-Bromofluorobenzene	100%	98%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits high, sample was ND.
(c) 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-5		
Lab Sample ID:	FA80054-5	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75397.D	1	10/25/20 16:02	SP	n/a	n/a	VP3016
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 [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 [b]	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	0.89	1.0	0.22	ug/l	J
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
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-5		
Lab Sample ID:	FA80054-5	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	109%		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.

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-6		
Lab Sample ID:	FA80054-6	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75398.D	1	10/25/20 16:27	SP	n/a	n/a	VP3016
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 [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 [b]	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
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-6		
Lab Sample ID:	FA80054-6	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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-17		
Lab Sample ID:	FA80054-7	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75399.D	1	10/25/20 16:52	SP	n/a	n/a	VP3016
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 [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 [b]	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
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-17		
Lab Sample ID:	FA80054-7	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	111%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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-18		
Lab Sample ID:	FA80054-8	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75400.D	1	10/25/20 17:17	SP	n/a	n/a	VP3016
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 [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 [b]	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
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-18		
Lab Sample ID:	FA80054-8	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		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.

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-37
Lab Sample ID: FA80054-9
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/20/20
Date Received: 10/22/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P75392.D	250	10/25/20 13:57	SP	n/a	n/a	VP3016
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	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	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	ND	250	75	ug/l	
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	95.2	250	81	ug/l	J
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 [b]	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	24700	250	54	ug/l	
108-88-3	Toluene	ND	250	75	ug/l	
71-55-6	1,1,1-Trichloroethane	104	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
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-37		
Lab Sample ID:	FA80054-9	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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-21
Lab Sample ID: FA80054-10
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/20/20
Date Received: 10/22/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P75438.D	200	10/26/20 19:10	SO	n/a	n/a	VP3017
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 [b]	ND	5000	2000	ug/l	
71-43-2	Benzene	ND	200	62	ug/l	
75-27-4	Bromodichloromethane	ND	200	48	ug/l	
75-25-2	Bromoform	ND	200	81	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	400	ug/l	
75-15-0	Carbon Disulfide	ND	400	110	ug/l	
56-23-5	Carbon Tetrachloride	ND	200	71	ug/l	
108-90-7	Chlorobenzene	ND	200	40	ug/l	
75-00-3	Chloroethane [c]	ND	400	130	ug/l	
67-66-3	Chloroform	ND	200	60	ug/l	
124-48-1	Dibromochloromethane	ND	200	55	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	68	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
75-35-4	1,1-Dichloroethylene	ND	200	64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	689	200	55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	200	44	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	43	ug/l	
100-41-4	Ethylbenzene	ND	200	71	ug/l	
591-78-6	2-Hexanone	ND	2000	400	ug/l	
74-83-9	Methyl Bromide	ND	400	120	ug/l	
74-87-3	Methyl Chloride	ND	400	100	ug/l	
75-09-2	Methylene Chloride	ND	1000	400	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1000	200	ug/l	
100-42-5	Styrene	ND	200	44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	60	ug/l	
127-18-4	Tetrachloroethylene	13900	200	43	ug/l	
108-88-3	Toluene	ND	200	60	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	93	ug/l	
79-01-6	Trichloroethylene	314	200	69	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-21		
Lab Sample ID:	FA80054-10	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	200	82	ug/l	
1330-20-7	Xylene (total)	ND	600	140	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits low.
(c) 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-20		
Lab Sample ID:	FA80054-11	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75394.D	2.5	10/25/20 14:47	SP	n/a	n/a	VP3016
Run #2 [a]	P75439.D	5	10/26/20 19:35	SO	n/a	n/a	VP3017

	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	63	25	ug/l	
71-43-2	Benzene	ND	2.5	0.78	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.61	ug/l	
75-25-2	Bromoform	ND	2.5	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	13	5.0	ug/l	
75-15-0	Carbon Disulfide	ND	5.0	1.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.89	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.50	ug/l	
75-00-3	Chloroethane [b]	ND	5.0	1.7	ug/l	
67-66-3	Chloroform	ND	2.5	0.75	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.85	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.78	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	0.69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.55	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.89	ug/l	
591-78-6	2-Hexanone	ND	25	5.0	ug/l	
74-83-9	Methyl Bromide [b]	ND	5.0	1.5	ug/l	
74-87-3	Methyl Chloride	ND	5.0	1.3	ug/l	
75-09-2	Methylene Chloride	ND	13	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	2.5	ug/l	
100-42-5	Styrene	ND	2.5	0.56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.75	ug/l	
127-18-4	Tetrachloroethylene	271 [c]	5.0	1.1	ug/l	
108-88-3	Toluene	ND	2.5	0.75	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	1.2	ug/l	
79-01-6	Trichloroethylene	3.6	2.5	0.86	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-20		
Lab Sample ID:	FA80054-11	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	7.5	1.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	104%	79-125%
2037-26-5	Toluene-D8	108%	106%	85-112%
460-00-4	4-Bromofluorobenzene	100%	98%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside of control limits high, sample was ND.
(c) 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-21D		
Lab Sample ID:	FA80054-12	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75401.D	1	10/25/20 17:42	SP	n/a	n/a	VP3016
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 [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 [b]	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	9.8	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
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-21D		
Lab Sample ID:	FA80054-12	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	107%		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.

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		
Lab Sample ID:	FA80054-13	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75395.D	500	10/25/20 15:12	SP	n/a	n/a	VP3016
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	13000	5000	ug/l	
71-43-2	Benzene	ND	500	160	ug/l	
75-27-4	Bromodichloromethane	ND	500	120	ug/l	
75-25-2	Bromoform	ND	500	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	1000	ug/l	
75-15-0	Carbon Disulfide	ND	1000	270	ug/l	
56-23-5	Carbon Tetrachloride	ND	500	180	ug/l	
108-90-7	Chlorobenzene	ND	500	100	ug/l	
75-00-3	Chloroethane [b]	ND	1000	330	ug/l	
67-66-3	Chloroform	ND	500	150	ug/l	
124-48-1	Dibromochloromethane	ND	500	140	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	170	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	160	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	160	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	140	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	500	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	210	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	150	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	110	ug/l	
100-41-4	Ethylbenzene	ND	500	180	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
74-83-9	Methyl Bromide [b]	ND	1000	290	ug/l	
74-87-3	Methyl Chloride	ND	1000	250	ug/l	
75-09-2	Methylene Chloride	ND	2500	1000	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	500	ug/l	
100-42-5	Styrene	ND	500	110	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	150	ug/l	
127-18-4	Tetrachloroethylene	45600	500	110	ug/l	
108-88-3	Toluene	ND	500	150	ug/l	
71-55-6	1,1,1-Trichloroethane	263	500	120	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	500	230	ug/l	
79-01-6	Trichloroethylene	ND	500	170	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-19		
Lab Sample ID:	FA80054-13	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	500	200	ug/l	
1330-20-7	Xylene (total)	ND	1500	360	ug/l	

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

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-2		
Lab Sample ID:	FA80054-14	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75402.D	1	10/25/20 18:07	SP	n/a	n/a	VP3016
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 [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 [b]	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	1.4	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	ND	1.0	0.35	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-2		
Lab Sample ID:	FA80054-14	**Date Sampled:**	10/20/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	109%		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.

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-36D		
Lab Sample ID:	FA80054-15	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75403.D	1	10/25/20 18:33	SP	n/a	n/a	VP3016
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 [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 [b]	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	0.52	1.0	0.22	ug/l	J
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
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-36D		
Lab Sample ID:	FA80054-15	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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-7		
Lab Sample ID:	FA80054-16	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75404.D	1	10/25/20 18:58	SP	n/a	n/a	VP3016
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 [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 [b]	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
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-7		
Lab Sample ID:	FA80054-16	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	110%		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.

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-3D1		
Lab Sample ID:	FA80054-17	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75405.D	1	10/25/20 19:23	SP	n/a	n/a	VP3016
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 [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 [b]	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
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-3D1		
Lab Sample ID:	FA80054-17	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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		
Lab Sample ID:	FA80054-18	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75408.D	1	10/25/20 20:38	SP	n/a	n/a	VP3016
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 [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 [b]	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	47.3	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
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		
Lab Sample ID:	FA80054-18	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	109%		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.

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-11		
Lab Sample ID:	FA80054-19	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75406.D	1	10/25/20 19:48	SP	n/a	n/a	VP3016
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 [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 [b]	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
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-11		
Lab Sample ID:	FA80054-19	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	110%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) 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		
Lab Sample ID:	FA80054-20	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	P75407.D	1	10/25/20 20:13	SP	n/a	n/a	VP3016
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 [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 [b]	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
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		
Lab Sample ID:	FA80054-20	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	109%		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.

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		
Lab Sample ID:	FA80054-21	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	I67358.D	2	10/25/20 19:45	SP	n/a	n/a	VI2151
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	50	20	ug/l	
71-43-2	Benzene	ND	2.0	0.62	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.48	ug/l	
75-25-2	Bromoform	ND	2.0	0.81	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	4.0	ug/l	
75-15-0	Carbon Disulfide	ND	4.0	1.1	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.0	0.71	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.40	ug/l	
75-00-3	Chloroethane	ND	4.0	1.3	ug/l	
67-66-3	Chloroform	ND	2.0	0.60	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.55	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.62	ug/l	
75-35-4	1,1-Dichloroethylene	2.7	2.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.71	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	4.0	1.2	ug/l	
74-87-3	Methyl Chloride	ND	4.0	1.0	ug/l	
75-09-2	Methylene Chloride	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	2.0	0.44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	139	2.0	0.43	ug/l	
108-88-3	Toluene	ND	2.0	0.60	ug/l	
71-55-6	1,1,1-Trichloroethane	0.51	2.0	0.50	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.93	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.69	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-13D		
Lab Sample ID:	FA80054-21	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	2.0	0.82	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	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	100%		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
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		
Lab Sample ID:	FA80054-22	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	Y53661.D	1	10/28/20 16:58	CV	n/a	n/a	VY2226
Run #2 [a]	I67359.D	10	10/25/20 20:12	SP	n/a	n/a	VI2151

	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 [b]	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 [c]	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	2.4	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	103 [d]	10	2.2	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	2.9	1.0	0.35	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-1		
Lab Sample ID:	FA80054-22	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	95%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	100%	79-125%
2037-26-5	Toluene-D8	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	92%	102%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV and BS outside control limits low.
(c) Associated BS recovery outside control limits low.
(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-8		
Lab Sample ID:	FA80054-23	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	Y53662.D	2.5	10/28/20 17:25	CV	n/a	n/a	VY2226
Run #2 [a]	I67360.D	10	10/25/20 20:39	SP	n/a	n/a	VI2151

	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	63	25	ug/l	
71-43-2	Benzene	ND	2.5	0.78	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.61	ug/l	
75-25-2	Bromoform [b]	ND	2.5	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	13	5.0	ug/l	
75-15-0	Carbon Disulfide	ND	5.0	1.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.89	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.50	ug/l	
75-00-3	Chloroethane	ND	5.0	1.7	ug/l	
67-66-3	Chloroform	ND	2.5	0.75	ug/l	
124-48-1	Dibromochloromethane [c]	ND	2.5	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.85	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.78	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	7.3	2.5	0.69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.55	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.89	ug/l	
591-78-6	2-Hexanone	ND	25	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	1.5	ug/l	
74-87-3	Methyl Chloride	ND	5.0	1.3	ug/l	
75-09-2	Methylene Chloride	ND	13	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	2.5	ug/l	
100-42-5	Styrene	ND	2.5	0.56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.75	ug/l	
127-18-4	Tetrachloroethylene	355 [d]	10	2.2	ug/l	
108-88-3	Toluene	ND	2.5	0.75	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	1.2	ug/l	
79-01-6	Trichloroethylene	43.6	2.5	0.86	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-8		
Lab Sample ID:	FA80054-23	**Date Sampled:**	10/21/20
Matrix:	AQ - Ground Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	7.5	1.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	113%	100%	79-125%
2037-26-5	Toluene-D8	102%	100%	85-112%
460-00-4	4-Bromofluorobenzene	92%	100%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV and BS outside control limits low.
(c) Associated BS recovery outside control limits low.
(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:	AQUEOUS IDW		
Lab Sample ID:	FA80054-24	**Date Sampled:**	10/21/20
Matrix:	AQ - Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	I67346.D	1	10/25/20 14:19	SP	n/a	n/a	VI2151
Run #2 [a]	Y53663.D	10	10/28/20 17:53	CV	n/a	n/a	VY2226

	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	40.8	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	0.91	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	3.7	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	290 [b]	10	2.2	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	1.8	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	4.4	1.0	0.35	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:	AQUEOUS IDW		
Lab Sample ID:	FA80054-24	**Date Sampled:**	10/21/20
Matrix:	AQ - Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	97%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	115%	79-125%
2037-26-5	Toluene-D8	101%	103%	85-112%
460-00-4	4-Bromofluorobenzene	102%	93%	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:	AQUEOUS IDW		
Lab Sample ID:	FA80054-24	**Date Sampled:**	10/21/20
Matrix:	AQ - Water	**Date Received:**	10/22/20
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X073632.D	1	10/28/20 23:19	MV	10/28/20 11:00	OP82704	SX2997
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.5	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.56	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.80	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.70	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.53	ug/l	
	3&4-Methylphenol	ND	4.8	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.81	ug/l	
100-02-7	4-Nitrophenol	ND	24	4.8	ug/l	
87-86-5	Pentachlorophenol [a]	ND	24	4.8	ug/l	
108-95-2	Phenol	ND	4.8	0.48	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	0.70	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	0.72	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.60	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.61	ug/l	
120-12-7	Anthracene	ND	4.8	0.76	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.72	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.75	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.74	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.78	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.82	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.58	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether [a]	ND	4.8	0.81	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.95	ug/l	
86-74-8	Carbazole	ND	4.8	0.57	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.60	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.77	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	0.70	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	4.8	0.72	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.48	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:	AQUEOUS IDW		
Lab Sample ID:	FA80054-24	**Date Sampled:**	10/21/20
Matrix:	AQ - Water	**Date Received:**	10/22/20
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
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	4.8	0.51	ug/l	
218-01-9	Chrysene	ND	4.8	0.81	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.57	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.48	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.48	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.8	0.61	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	0.95	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.95	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.8	0.95	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.77	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.68	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.53	ug/l	
86-73-7	Fluorene	ND	4.8	0.67	ug/l	
118-74-1	Hexachlorobenzene [a]	ND	4.8	0.66	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	1.7	ug/l	
67-72-1	Hexachloroethane	ND	4.8	1.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.68	ug/l	
78-59-1	Isophorone	ND	4.8	0.74	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.57	ug/l	
91-20-3	Naphthalene	ND	4.8	0.48	ug/l	
88-74-4	2-Nitroaniline	ND	4.8	1.7	ug/l	
99-09-2	3-Nitroaniline	ND	4.8	0.84	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.89	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.64	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.77	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.82	ug/l	
129-00-0	Pyrene	ND	4.8	0.65	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	54%		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:	AQUEOUS IDW		
Lab Sample ID:	FA80054-24	**Date Sampled:**	10/21/20
Matrix:	AQ - Water	**Date Received:**	10/22/20
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

(a) Associated BS recovery outside control limits.

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: AQUEOUS IDW
Lab Sample ID: FA80054-24
Matrix: AQ - Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/21/20
Date Received: 10/22/20
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	4.1 JB	6.0	1.0	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Arsenic	1.3 U	10	1.3	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Beryllium	0.56 J	4.0	0.20	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Cadmium	0.20 U	5.0	0.20	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Chromium	33.3	10	1.0	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Copper	32.6	25	1.0	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Lead	3.8 J	5.0	1.1	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Mercury	0.030 U	0.50	0.030	ug/l	1	10/29/20	10/29/20	JC	SW846 7470A [1]	SW846 7470A [3]
Nickel	8.0 J	40	0.40	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Selenium	2.9 U	10	2.9	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Silver	0.70 U	10	0.70	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Thallium	1.4 U	10	1.4	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]
Zinc	61.3	20	4.4	ug/l	1	11/02/20	11/03/20	LM	SW846 6010D [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA17183
(2) Instrument QC Batch: MA17197
(3) Prep QC Batch: MP38050
(4) Prep QC Batch: MP38068

(a) Analyte detected in the associated MB.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SW-01-LC		
Lab Sample ID:	FA80054-25	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	I67347.D	1	10/25/20 14:46	SP	n/a	n/a	VI2151
Run #2 [b]	Y53653.D	1	10/28/20 13:21	CV	n/a	n/a	VY2226

	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	0.44	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	2.9	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	ND	1.0	0.35	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:	SW-01-LC		
Lab Sample ID:	FA80054-25	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	114%	79-125%
2037-26-5	Toluene-D8	100%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	93%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. 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:	SW-04-TLC		
Lab Sample ID:	FA80054-26	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	I67348.D	1	10/25/20 15:13	SP	n/a	n/a	VI2151
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
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:	SW-04-TLC		
Lab Sample ID:	FA80054-26	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		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	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:	SW-02-LC		
Lab Sample ID:	FA80054-27	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	I67349.D	1	10/25/20 15:40	SP	n/a	n/a	VI2151
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
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:	SW-02-LC		
Lab Sample ID:	FA80054-27	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		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

Report of Analysis

Client Sample ID:	SW-03-HMB		
Lab Sample ID:	FA80054-28	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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]	I67350.D	1	10/25/20 16:07	SP	n/a	n/a	VI2151
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
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:	SW-03-HMB		
Lab Sample ID:	FA80054-28	**Date Sampled:**	10/21/20
Matrix:	AQ - Surface Water	**Date Received:**	10/22/20
Method:	SW846 8260D	**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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA80054

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60629985
Chain of Custody Number (1):
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw | Project Manager: Leslee Alexander

Sample Analysis Requested

Quality Assurance Samples

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
1	Trip Blank #3	20-Oct-2020			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
2	Trip Blank #4	20-Oct-2020			X			X			7 DAY HOLDING TIME	
3	MW-24	20-Oct-2020	1335			X		X				
4	MW-24-a	20-Oct-2020	1335			X		X				
5	MW-5	20-Oct-2020	1405			X		X				
6	MW-6	20-Oct-2020	1440			X		X				
7	MW-17	20-Oct-2020	1520			X		X				
8	MW-18	20-Oct-2020	1550			X		X				
9	MW-37	20-Oct-2020	1615			X		X				
10	MW-21	20-Oct-2020	1650			X		X				
11	MW-20	20-Oct-2020	1653			X		X				
12	MW-21D	20-Oct-2020	1720			X		X			INITIAL ASSESSMENT CDV	
13	MW-19	20-Oct-2020	1740			X		X			ARF VERIFICATION DO	
14	MW-2	20-Oct-2020	1750			X		X				
15	MW-36D	21-Oct-2020	0828			X	↓	X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10/21/20	1400	[illegible]	10/22/2020	9:00
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: SGS North America Inc
Lab Recipient:

Shipped: XXXX
Airbill #:
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

0.4

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5.1 5

FA80054: Chain of Custody
Page 1 of 3

FA80054

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60629985
Chain of Custody Number [1]:
P.O. #

Project Name / Location: UTC Delavan Spray Technologies Site, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Mariah Rockw Project Manager: Leslee Alexander

Sample Analysis Requested

Quality Assurance Samples

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
16	MW-7	21-Oct-2020	0850			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	
17	MW-3D1	21-Oct-2020	0925			X		X			7 DAY HOLDING TIME	
18	MW-12D	21-Oct-2020	0958			X		X				
19	MW-11	21-Oct-2020	1030			X		X				
20	MW-27	21-Oct-2020	1048			X		X				
21	MW-13D	21-Oct-2020	1130			X		X				
22	MW-1	21-Oct-2020	1140			X		X				
23	MW-8	21-Oct-2020	1145			X		X				
24	Aqueous IDW	21-Oct-2020	1200		X			X	X	X		
25	SW-01-LC	21-Oct-2020	1240		X		Surface Water	X				
26	SW-04-LC	21-Oct-2020	1300		X			X				
27	SW-02-LC	21-Oct-2020	1315		X			X				
28	SW-03-HMB	21-Oct-2020	1330		X			X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-21-2020	1740	1. Gresham	10/22/2020	9:00
2.				2.		
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped:	XXXX
Method of Shipment:	Fed Ex	Airbill #:	
Analytical Lab:	SGS North America Inc	Location:	Orlando FLA
Lab Recipient:		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

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5.1 5

FA80054: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA80054 **Client:** AECOM **Project:** UTC DELAVAN SPRAY

Date / Time Received: 10/22/2020 9:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 923153806550

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.2);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☑		☐	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
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 _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: GUERBINEF Date: 10/22/2020 9:00:00 A Reviewer: _____ Date: _____

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3016-MB	P75387.D	1	10/25/20	SP	n/a	n/a	VP3016

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

FA80054-1, FA80054-2, FA80054-3, FA80054-4, FA80054-5, FA80054-6, FA80054-7, FA80054-8, FA80054-9, FA80054-11, FA80054-12, FA80054-13, FA80054-14, FA80054-15, FA80054-16, FA80054-17, FA80054-18, FA80054-19, FA80054-20

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: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3016-MB	P75387.D	1	10/25/20	SP	n/a	n/a	VP3016

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

FA80054-1, FA80054-2, FA80054-3, FA80054-4, FA80054-5, FA80054-6, FA80054-7, FA80054-8, FA80054-9, FA80054-11, FA80054-12, FA80054-13, FA80054-14, FA80054-15, FA80054-16, FA80054-17, FA80054-18, FA80054-19, FA80054-20

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

Method Blank Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2151-MB	I67344.D	1	10/25/20	SP	n/a	n/a	VI2151

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

FA80054-21, FA80054-22, FA80054-23, FA80054-24, FA80054-25, FA80054-26, FA80054-27, FA80054-28

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: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2151-MB	I67344.D	1	10/25/20	SP	n/a	n/a	VI2151

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

FA80054-21, FA80054-22, FA80054-23, FA80054-24, FA80054-25, FA80054-26, FA80054-27, FA80054-28

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3017-MB	P75417.D	1	10/26/20	SO	n/a	n/a	VP3017

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

FA80054-4, FA80054-10, FA80054-11

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	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: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3017-MB	P75417.D	1	10/26/20	SO	n/a	n/a	VP3017

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

FA80054-4, FA80054-10, FA80054-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	110%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Method Blank Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2226-MB	Y53649.D	1	10/28/20	CV	n/a	n/a	VY2226

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

FA80054-22, FA80054-23, FA80054-24

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: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2226-MB	Y53649.D	1	10/28/20	CV	n/a	n/a	VY2226

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

FA80054-22, FA80054-23, FA80054-24

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	93%	83-118%

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3016-BS	P75385.D	1	10/25/20	SP	n/a	n/a	VP3016

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

FA80054-1, FA80054-2, FA80054-3, FA80054-4, FA80054-5, FA80054-6, FA80054-7, FA80054-8, FA80054-9, FA80054-11, FA80054-12, FA80054-13, FA80054-14, FA80054-15, FA80054-16, FA80054-17, FA80054-18, FA80054-19, FA80054-20

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	25.1	100	81-122
75-27-4	Bromodichloromethane	25	24.4	98	79-123
75-25-2	Bromoform	25	22.7	91	66-123
78-93-3	2-Butanone (MEK)	125	105	84	56-143
75-15-0	Carbon Disulfide	25	20.2	81	66-148
56-23-5	Carbon Tetrachloride	25	25.2	101	76-136
108-90-7	Chlorobenzene	25	26.7	107	82-124
75-00-3	Chloroethane	25	27.5	110	62-144
67-66-3	Chloroform	25	25.4	102	80-124
124-48-1	Dibromochloromethane	25	25.6	102	78-122
75-34-3	1,1-Dichloroethane	25	26.0	104	81-122
107-06-2	1,2-Dichloroethane	25	23.2	93	75-125
75-35-4	1,1-Dichloroethylene	25	24.5	98	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.4	102	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.2	97	76-127
78-87-5	1,2-Dichloropropane	25	24.6	98	76-124
10061-01-5	cis-1,3-Dichloropropene	25	22.1	88	75-118
10061-02-6	trans-1,3-Dichloropropene	25	23.6	94	80-120
100-41-4	Ethylbenzene	25	26.0	104	81-121
591-78-6	2-Hexanone	125	112	90	61-129
74-83-9	Methyl Bromide	25	29.2	117	59-143
74-87-3	Methyl Chloride	25	24.7	99	50-159
75-09-2	Methylene Chloride	25	21.5	86	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	111	89	66-122
100-42-5	Styrene	25	25.2	101	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.8	99	72-120
127-18-4	Tetrachloroethylene	25	27.4	110	76-135
108-88-3	Toluene	25	24.9	100	80-120
71-55-6	1,1,1-Trichloroethane	25	25.6	102	75-130
79-00-5	1,1,2-Trichloroethane	25	25.1	100	76-119
79-01-6	Trichloroethylene	25	25.1	100	81-126
75-01-4	Vinyl Chloride	25	23.1	92	69-159
1330-20-7	Xylene (total)	75	77.6	103	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3016-BS	P75385.D	1	10/25/20	SP	n/a	n/a	VP3016

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

FA80054-1, FA80054-2, FA80054-3, FA80054-4, FA80054-5, FA80054-6, FA80054-7, FA80054-8, FA80054-9, FA80054-11, FA80054-12, FA80054-13, FA80054-14, FA80054-15, FA80054-16, FA80054-17, FA80054-18, FA80054-19, FA80054-20

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2151-BS	I67341.D	1	10/25/20	SP	n/a	n/a	VI2151

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

FA80054-21, FA80054-22, FA80054-23, FA80054-24, FA80054-25, FA80054-26, FA80054-27, FA80054-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	105	84	50-147
71-43-2	Benzene	25	25.0	100	81-122
75-27-4	Bromodichloromethane	25	25.8	103	79-123
75-25-2	Bromoform	25	24.8	99	66-123
78-93-3	2-Butanone (MEK)	125	112	90	56-143
75-15-0	Carbon Disulfide	25	23.3	93	66-148
56-23-5	Carbon Tetrachloride	25	25.7	103	76-136
108-90-7	Chlorobenzene	25	24.3	97	82-124
75-00-3	Chloroethane	25	24.1	96	62-144
67-66-3	Chloroform	25	25.2	101	80-124
124-48-1	Dibromochloromethane	25	24.8	99	78-122
75-34-3	1,1-Dichloroethane	25	26.4	106	81-122
107-06-2	1,2-Dichloroethane	25	23.3	93	75-125
75-35-4	1,1-Dichloroethylene	25	25.0	100	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.0	100	76-127
78-87-5	1,2-Dichloropropane	25	25.0	100	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.0	92	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.5	98	80-120
100-41-4	Ethylbenzene	25	24.8	99	81-121
591-78-6	2-Hexanone	125	120	96	61-129
74-83-9	Methyl Bromide	25	19.7	79	59-143
74-87-3	Methyl Chloride	25	22.1	88	50-159
75-09-2	Methylene Chloride	25	22.7	91	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	121	97	66-122
100-42-5	Styrene	25	24.3	97	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	72-120
127-18-4	Tetrachloroethylene	25	25.7	103	76-135
108-88-3	Toluene	25	24.0	96	80-120
71-55-6	1,1,1-Trichloroethane	25	25.2	101	75-130
79-00-5	1,1,2-Trichloroethane	25	24.8	99	76-119
79-01-6	Trichloroethylene	25	24.0	96	81-126
75-01-4	Vinyl Chloride	25	23.4	94	69-159
1330-20-7	Xylene (total)	75	74.7	100	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2151-BS	I67341.D	1	10/25/20	SP	n/a	n/a	VI2151

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

FA80054-21, FA80054-22, FA80054-23, FA80054-24, FA80054-25, FA80054-26, FA80054-27, FA80054-28

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3017-BS	P75414.D	1	10/26/20	SO	n/a	n/a	VP3017

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

FA80054-4, FA80054-10, FA80054-11

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	22.7	91	81-122
75-27-4	Bromodichloromethane	25	21.4	86	79-123
75-25-2	Bromoform	25	21.2	85	66-123
78-93-3	2-Butanone (MEK)	125	102	82	56-143
75-15-0	Carbon Disulfide	25	18.3	73	66-148
56-23-5	Carbon Tetrachloride	25	23.1	92	76-136
108-90-7	Chlorobenzene	25	24.0	96	82-124
75-00-3	Chloroethane	25	29.1	116	62-144
67-66-3	Chloroform	25	22.9	92	80-124
124-48-1	Dibromochloromethane	25	22.9	92	78-122
75-34-3	1,1-Dichloroethane	25	23.4	94	81-122
107-06-2	1,2-Dichloroethane	25	21.3	85	75-125
75-35-4	1,1-Dichloroethylene	25	22.3	89	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.4	90	76-127
78-87-5	1,2-Dichloropropane	25	23.0	92	76-124
10061-01-5	cis-1,3-Dichloropropene	25	19.7	79	75-118
10061-02-6	trans-1,3-Dichloropropene	25	21.8	87	80-120
100-41-4	Ethylbenzene	25	23.7	95	81-121
591-78-6	2-Hexanone	125	114	91	61-129
74-83-9	Methyl Bromide	25	24.2	97	59-143
74-87-3	Methyl Chloride	25	22.0	88	50-159
75-09-2	Methylene Chloride	25	19.8	79	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	108	86	66-122
100-42-5	Styrene	25	22.3	89	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.5	94	72-120
127-18-4	Tetrachloroethylene	25	25.3	101	76-135
108-88-3	Toluene	25	22.3	89	80-120
71-55-6	1,1,1-Trichloroethane	25	23.2	93	75-130
79-00-5	1,1,2-Trichloroethane	25	22.8	91	76-119
79-01-6	Trichloroethylene	25	22.4	90	81-126
75-01-4	Vinyl Chloride	25	21.2	85	69-159
1330-20-7	Xylene (total)	75	70.1	93	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3017-BS	P75414.D	1	10/26/20	SO	n/a	n/a	VP3017

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

FA80054-4, FA80054-10, FA80054-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2226-BS	Y53646.D	1	10/28/20	CV	n/a	n/a	VY2226

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

FA80054-22, FA80054-23, FA80054-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	97.9	78	50-147
71-43-2	Benzene	25	23.2	93	81-122
75-27-4	Bromodichloromethane	25	21.3	85	79-123
75-25-2	Bromoform	25	16.0	64*	66-123
78-93-3	2-Butanone (MEK)	125	95.1	76	56-143
75-15-0	Carbon Disulfide	25	18.6	74	66-148
56-23-5	Carbon Tetrachloride	25	22.0	88	76-136
108-90-7	Chlorobenzene	25	23.4	94	82-124
75-00-3	Chloroethane	25	29.3	117	62-144
67-66-3	Chloroform	25	23.4	94	80-124
124-48-1	Dibromochloromethane	25	19.2	77*	78-122
75-34-3	1,1-Dichloroethane	25	25.6	102	81-122
107-06-2	1,2-Dichloroethane	25	22.7	91	75-125
75-35-4	1,1-Dichloroethylene	25	24.8	99	78-137
156-59-2	cis-1,2-Dichloroethylene	25	21.7	87	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.4	98	76-127
78-87-5	1,2-Dichloropropane	25	23.3	93	76-124
10061-01-5	cis-1,3-Dichloropropene	25	21.7	87	75-118
10061-02-6	trans-1,3-Dichloropropene	25	23.2	93	80-120
100-41-4	Ethylbenzene	25	24.0	96	81-121
591-78-6	2-Hexanone	125	96.7	77	61-129
74-83-9	Methyl Bromide	25	24.7	99	59-143
74-87-3	Methyl Chloride	25	29.6	118	50-159
75-09-2	Methylene Chloride	25	23.6	94	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	98.8	79	66-122
100-42-5	Styrene	25	21.7	87	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	20.2	81	72-120
127-18-4	Tetrachloroethylene	25	22.8	91	76-135
108-88-3	Toluene	25	22.6	90	80-120
71-55-6	1,1,1-Trichloroethane	25	23.4	94	75-130
79-00-5	1,1,2-Trichloroethane	25	21.3	85	76-119
79-01-6	Trichloroethylene	25	23.2	93	81-126
75-01-4	Vinyl Chloride	25	29.4	118	69-159
1330-20-7	Xylene (total)	75	69.4	93	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2226-BS	Y53646.D	1	10/28/20	CV	n/a	n/a	VY2226

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

FA80054-22, FA80054-23, FA80054-24

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	91%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-3MS	P75409.D	25	10/25/20	SP	n/a	n/a	VP3016
FA80054-3MSD	P75410.D	25	10/25/20	SP	n/a	n/a	VP3016
FA80054-3 [a]	P75390.D	25	10/25/20	SP	n/a	n/a	VP3016

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

FA80054-1, FA80054-2, FA80054-3, FA80054-4, FA80054-5, FA80054-6, FA80054-7, FA80054-8, FA80054-9, FA80054-11, FA80054-12, FA80054-13, FA80054-14, FA80054-15, FA80054-16, FA80054-17, FA80054-18, FA80054-19, FA80054-20

CAS No.	Compound	FA80054-3 ug/l	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	2630	84	3130	2350	75	11	50-147/21
71-43-2	Benzene	ND		625	700	112	625	612	98	13	81-122/14
75-27-4	Bromodichloromethane	ND		625	671	107	625	589	94	13	79-123/19
75-25-2	Bromoform	ND		625	567	91	625	509	81	11	66-123/21
78-93-3	2-Butanone (MEK)	ND		3130	2570	82	3130	2330	75	10	56-143/18
75-15-0	Carbon Disulfide	ND		625	532	85	625	470	75	12	66-148/23
56-23-5	Carbon Tetrachloride	ND		625	679	109	625	606	97	11	76-136/23
108-90-7	Chlorobenzene	ND		625	712	114	625	645	103	10	82-124/14
75-00-3	Chloroethane	ND		625	754	121	625	615	98	20	62-144/20
67-66-3	Chloroform	ND		625	688	110	625	610	98	12	80-124/15
124-48-1	Dibromochloromethane	ND		625	668	107	625	615	98	8	78-122/19
75-34-3	1,1-Dichloroethane	ND		625	702	112	625	624	100	12	81-122/15
107-06-2	1,2-Dichloroethane	ND		625	652	104	625	588	94	10	75-125/14
75-35-4	1,1-Dichloroethylene	ND		625	641	103	625	571	91	12	78-137/18
156-59-2	cis-1,2-Dichloroethylene	14.8	J	625	695	109	625	623	97	11	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		625	654	105	625	585	94	11	76-127/17
78-87-5	1,2-Dichloropropane	ND		625	680	109	625	604	97	12	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		625	584	93	625	518	83	12	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		625	626	100	625	573	92	9	80-120/22
100-41-4	Ethylbenzene	ND		625	697	112	625	621	99	12	81-121/14
591-78-6	2-Hexanone	ND		3130	3010	96	3130	2650	85	13	61-129/18
74-83-9	Methyl Bromide	ND		625	679	109	625	656	105	3	59-143/19
74-87-3	Methyl Chloride	ND		625	584	93	625	545	87	7	50-159/19
75-09-2	Methylene Chloride	ND		625	587	94	625	530	85	10	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		3130	2880	92	3130	2560	82	12	66-122/16
100-42-5	Styrene	ND		625	664	106	625	604	97	9	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		625	663	106	625	581	93	13	72-120/14
127-18-4	Tetrachloroethylene	1850		625	2690	134	625	2420	91	11	76-135/16
108-88-3	Toluene	ND		625	660	106	625	591	95	11	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		625	681	109	625	597	96	13	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		625	664	106	625	615	98	8	76-119/14
79-01-6	Trichloroethylene	ND		625	704	113	625	627	100	12	81-126/15
75-01-4	Vinyl Chloride	ND		625	590	94	625	532	85	10	69-159/18
1330-20-7	Xylene (total)	ND		1880	2070	110	1880	1870	100	10	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-3MS	P75409.D	25	10/25/20	SP	n/a	n/a	VP3016
FA80054-3MSD	P75410.D	25	10/25/20	SP	n/a	n/a	VP3016
FA80054-3 [a]	P75390.D	25	10/25/20	SP	n/a	n/a	VP3016

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

FA80054-1, FA80054-2, FA80054-3, FA80054-4, FA80054-5, FA80054-6, FA80054-7, FA80054-8, FA80054-9, FA80054-11, FA80054-12, FA80054-13, FA80054-14, FA80054-15, FA80054-16, FA80054-17, FA80054-18, FA80054-19, FA80054-20

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-3	Limits
1868-53-7	Dibromofluoromethane	96%	95%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	100%	79-125%
2037-26-5	Toluene-D8	99%	100%	108%	85-112%
460-00-4	4-Bromofluorobenzene	91%	92%	97%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-23MS	I67365.D	10	10/25/20	SP	n/a	n/a	VI2151
FA80054-23MSD	I67366.D	10	10/25/20	SP	n/a	n/a	VI2151
FA80054-23 [a]	I67360.D	10	10/25/20	SP	n/a	n/a	VI2151

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

FA80054-21, FA80054-22, FA80054-23, FA80054-24, FA80054-25, FA80054-26, FA80054-27, FA80054-28

CAS No.	Compound	FA80054-23 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	887	71	1250	841	67	5	50-147/21
71-43-2	Benzene	ND		250	271	108	250	263	105	3	81-122/14
75-27-4	Bromodichloromethane	ND		250	268	107	250	269	108	0	79-123/19
75-25-2	Bromoform	ND		250	232	93	250	240	96	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	1040	83	1250	1020	82	2	56-143/18
75-15-0	Carbon Disulfide	ND		250	245	98	250	238	95	3	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	265	106	250	259	104	2	76-136/23
108-90-7	Chlorobenzene	ND		250	262	105	250	257	103	2	82-124/14
75-00-3	Chloroethane	ND		250	263	105	250	248	99	6	62-144/20
67-66-3	Chloroform	ND		250	270	108	250	267	107	1	80-124/15
124-48-1	Dibromochloromethane	ND		250	252	101	250	254	102	1	78-122/19
75-34-3	1,1-Dichloroethane	ND		250	284	114	250	277	111	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	249	100	250	250	100	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		250	267	107	250	258	103	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	8.4	J	250	279	108	250	271	105	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	270	108	250	261	104	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	273	109	250	271	108	1	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		250	234	94	250	235	94	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	245	98	250	248	99	1	80-120/22
100-41-4	Ethylbenzene	ND		250	264	106	250	257	103	3	81-121/14
591-78-6	2-Hexanone	ND		1250	1200	96	1250	1200	96	0	61-129/18
74-83-9	Methyl Bromide	ND		250	91.5	37*	250	117	47*	24*	59-143/19
74-87-3	Methyl Chloride	ND		250	236	94	250	224	90	5	50-159/19
75-09-2	Methylene Chloride	ND		250	247	99	250	243	97	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	1260	101	1250	1280	102	2	66-122/16
100-42-5	Styrene	ND		250	259	104	250	254	102	2	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	260	104	250	263	105	1	72-120/14
127-18-4	Tetrachloroethylene	355		250	633	111	250	610	102	4	76-135/16
108-88-3	Toluene	ND		250	257	103	250	250	100	3	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		250	264	106	250	259	104	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	265	106	250	267	107	1	76-119/14
79-01-6	Trichloroethylene	51.0		250	314	105	250	302	100	4	81-126/15
75-01-4	Vinyl Chloride	ND		250	251	100	250	241	96	4	69-159/18
1330-20-7	Xylene (total)	ND		750	795	106	750	776	103	2	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-23MS	I67365.D	10	10/25/20	SP	n/a	n/a	VI2151
FA80054-23MSD	I67366.D	10	10/25/20	SP	n/a	n/a	VI2151
FA80054-23 [a]	I67360.D	10	10/25/20	SP	n/a	n/a	VI2151

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

FA80054-21, FA80054-22, FA80054-23, FA80054-24, FA80054-25, FA80054-26, FA80054-27, FA80054-28

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-23	Limits
1868-53-7	Dibromofluoromethane	99%	99%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	100%	79-125%
2037-26-5	Toluene-D8	100%	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	96%	97%	100%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-10MS	P75425.D	200	10/26/20	SO	n/a	n/a	VP3017
FA80054-10MSD	P75426.D	200	10/26/20	SO	n/a	n/a	VP3017
FA80054-10 [a]	P75438.D	200	10/26/20	SO	n/a	n/a	VP3017

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

FA80054-4, FA80054-10, FA80054-11

CAS No.	Compound	FA80054-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		25000	21700	87	25000	20100	80	8	50-147/21
71-43-2	Benzene	ND		5000	5100	102	5000	4580	92	11	81-122/14
75-27-4	Bromodichloromethane	ND		5000	4830	97	5000	4380	88	10	79-123/19
75-25-2	Bromoform	ND		5000	4160	83	5000	3950	79	5	66-123/21
78-93-3	2-Butanone (MEK)	ND		25000	21900	88	25000	20200	81	8	56-143/18
75-15-0	Carbon Disulfide	ND		5000	3810	76	5000	3480	70	9	66-148/23
56-23-5	Carbon Tetrachloride	ND		5000	4850	97	5000	4610	92	5	76-136/23
108-90-7	Chlorobenzene	ND		5000	5210	104	5000	4760	95	9	82-124/14
75-00-3	Chloroethane	ND		5000	6740	135	5000	5790	116	15	62-144/20
67-66-3	Chloroform	ND		5000	5070	101	5000	4690	94	8	80-124/15
124-48-1	Dibromochloromethane	ND		5000	4910	98	5000	4630	93	6	78-122/19
75-34-3	1,1-Dichloroethane	ND		5000	5050	101	5000	4730	95	7	81-122/15
107-06-2	1,2-Dichloroethane	ND		5000	4850	97	5000	4500	90	7	75-125/14
75-35-4	1,1-Dichloroethylene	ND		5000	4720	94	5000	4440	89	6	78-137/18
156-59-2	cis-1,2-Dichloroethylene	689		5000	5670	100	5000	5260	91	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		5000	4770	95	5000	4420	88	8	76-127/17
78-87-5	1,2-Dichloropropane	ND		5000	5070	101	5000	4640	93	9	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		5000	4180	84	5000	3950	79	6	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		5000	4590	92	5000	4270	85	7	80-120/22
100-41-4	Ethylbenzene	ND		5000	5110	102	5000	4650	93	9	81-121/14
591-78-6	2-Hexanone	ND		25000	23500	94	25000	21700	87	8	61-129/18
74-83-9	Methyl Bromide	ND		5000	5390	108	5000	5340	107	1	59-143/19
74-87-3	Methyl Chloride	ND		5000	4580	92	5000	4460	89	3	50-159/19
75-09-2	Methylene Chloride	ND		5000	4470	89	5000	4030	81	10	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25000	23000	92	25000	21000	84	9	66-122/16
100-42-5	Styrene	ND		5000	4850	97	5000	4420	88	9	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		5000	5040	101	5000	4610	92	9	72-120/14
127-18-4	Tetrachloroethylene	13900		5000	20300	128	5000	18500	92	9	76-135/16
108-88-3	Toluene	ND		5000	4910	98	5000	4450	89	10	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		5000	4920	98	5000	4520	90	8	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		5000	4970	99	5000	4680	94	6	76-119/14
79-01-6	Trichloroethylene	314		5000	5390	102	5000	4900	92	10	81-126/15
75-01-4	Vinyl Chloride	ND		5000	4570	91	5000	4290	86	6	69-159/18
1330-20-7	Xylene (total)	ND		15000	15100	101	15000	13800	92	9	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-10MS	P75425.D	200	10/26/20	SO	n/a	n/a	VP3017
FA80054-10MSD	P75426.D	200	10/26/20	SO	n/a	n/a	VP3017
FA80054-10 [a]	P75438.D	200	10/26/20	SO	n/a	n/a	VP3017

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

FA80054-4, FA80054-10, FA80054-11

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-10	Limits
1868-53-7	Dibromofluoromethane	95%	98%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	103%	79-125%
2037-26-5	Toluene-D8	99%	99%	106%	85-112%
460-00-4	4-Bromofluorobenzene	92%	94%	97%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-24MS	Y53669.D	10	10/28/20	CV	n/a	n/a	VY2226
FA80054-24MSD	Y53670.D	10	10/28/20	CV	n/a	n/a	VY2226
FA80054-24 [a]	Y53663.D	10	10/28/20	CV	n/a	n/a	VY2226

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

FA80054-22, FA80054-23, FA80054-24

CAS No.	Compound	FA80054-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1010	81	1250	1020	82	1	50-147/21
71-43-2	Benzene	ND		250	246	98	250	248	99	1	81-122/14
75-27-4	Bromodichloromethane	ND		250	223	89	250	224	90	0	79-123/19
75-25-2	Bromoform	ND		250	156	62*	250	157	63*	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	983	79	1250	948	76	4	56-143/18
75-15-0	Carbon Disulfide	ND		250	188	75	250	186	74	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	233	93	250	232	93	0	76-136/23
108-90-7	Chlorobenzene	ND		250	247	99	250	248	99	0	82-124/14
75-00-3	Chloroethane	ND		250	302	121	250	292	117	3	62-144/20
67-66-3	Chloroform	ND		250	251	100	250	251	100	0	80-124/15
124-48-1	Dibromochloromethane	ND		250	195	78	250	195	78	0	78-122/19
75-34-3	1,1-Dichloroethane	ND		250	271	108	250	277	111	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	241	96	250	241	96	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		250	252	101	250	262	105	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	3.3	J	250	233	92	250	239	94	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	251	100	250	250	100	0	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	250	100	250	254	102	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		250	226	90	250	224	90	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	238	95	250	232	93	3	80-120/22
100-41-4	Ethylbenzene	ND		250	254	102	250	254	102	0	81-121/14
591-78-6	2-Hexanone	ND		1250	983	79	1250	959	77	2	61-129/18
74-83-9	Methyl Bromide	ND		250	217	87	250	219	88	1	59-143/19
74-87-3	Methyl Chloride	ND		250	319	128	250	291	116	9	50-159/19
75-09-2	Methylene Chloride	ND		250	257	103	250	256	102	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	985	79	1250	977	78	1	66-122/16
100-42-5	Styrene	ND		250	227	91	250	228	91	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	202	81	250	201	80	0	72-120/14
127-18-4	Tetrachloroethylene	290		250	529	96	250	527	95	0	76-135/16
108-88-3	Toluene	ND		250	240	96	250	241	96	0	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		250	249	100	250	250	100	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	220	88	250	219	88	0	76-119/14
79-01-6	Trichloroethylene	5.0	J	250	249	98	250	250	98	0	81-126/15
75-01-4	Vinyl Chloride	ND		250	313	125	250	308	123	2	69-159/18
1330-20-7	Xylene (total)	ND		750	738	98	750	738	98	0	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA80054-24MS	Y53669.D	10	10/28/20	CV	n/a	n/a	VY2226
FA80054-24MSD	Y53670.D	10	10/28/20	CV	n/a	n/a	VY2226
FA80054-24 [a]	Y53663.D	10	10/28/20	CV	n/a	n/a	VY2226

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

FA80054-22, FA80054-23, FA80054-24

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-24	Limits
1868-53-7	Dibromofluoromethane	96%	96%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	115%	79-125%
2037-26-5	Toluene-D8	100%	100%	103%	85-112%
460-00-4	4-Bromofluorobenzene	89%	90%	93%	83-118%

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

* = 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

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-MB	X073624.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

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

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-MB	X073624.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

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	37%	14-67%
4165-62-2	Phenol-d5	26%	10-50%

Method Blank Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-MB	X073624.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	61%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	69%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-BS	X073623.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	24.3	24	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	29.4	59	54-103
95-57-8	2-Chlorophenol	50	27.7	55	52-98
120-83-2	2,4-Dichlorophenol	50	30.0	60	53-103
105-67-9	2,4-Dimethylphenol	50	30.3	61	43-90
51-28-5	2,4-Dinitrophenol	100	65.3	65	44-112
534-52-1	4,6-Dinitro-o-cresol	100	69.1	69	66-121
95-48-7	2-Methylphenol	50	23.8	48	43-90
	3&4-Methylphenol	100	46.7	47	36-88
88-75-5	2-Nitrophenol	50	34.3	69	53-102
100-02-7	4-Nitrophenol	100	31.7	32	18-62
87-86-5	Pentachlorophenol	100	60.4	60* [a]	61-115
108-95-2	Phenol	50	13.9	28	19-56
95-95-4	2,4,5-Trichlorophenol	50	32.3	65	62-109
88-06-2	2,4,6-Trichlorophenol	50	33.1	66	59-107
83-32-9	Acenaphthene	50	34.5	69	61-107
208-96-8	Acenaphthylene	50	37.5	75	60-104
120-12-7	Anthracene	50	34.1	68	65-108
56-55-3	Benzo(a)anthracene	50	35.9	72	66-111
50-32-8	Benzo(a)pyrene	50	38.0	76	62-107
205-99-2	Benzo(b)fluoranthene	50	38.5	77	65-114
191-24-2	Benzo(g,h,i)perylene	50	37.3	75	66-116
207-08-9	Benzo(k)fluoranthene	50	38.4	77	65-114
100-51-6	Benzyl Alcohol	50	26.8	54	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	31.8	64* [a]	65-109
85-68-7	Butyl Benzyl Phthalate	50	38.6	77	65-112
86-74-8	Carbazole	50	35.8	72	59-113
106-47-8	4-Chloroaniline	50	29.6	59	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	31.4	63	51-102
111-44-4	bis(2-Chloroethyl)ether	50	32.5	65	53-100
108-60-1	2,2'-Oxybis(1-chloropropane)	50	35.5	71	45-106
91-58-7	2-Chloronaphthalene	50	33.9	68	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	32.7	65	62-105
218-01-9	Chrysene	50	37.1	74	66-111
53-70-3	Dibenzo(a,h)anthracene	50	35.9	72	66-119
132-64-9	Dibenzofuran	50	35.2	70	61-106

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-BS	X073623.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	31.5	63	48-97
541-73-1	1,3-Dichlorobenzene	50	31.3	63	45-95
106-46-7	1,4-Dichlorobenzene	50	31.2	62	45-98
91-94-1	3,3'-Dichlorobenzidine	50	24.4	49	46-117
84-66-2	Diethyl Phthalate	50	34.5	69	64-108
131-11-3	Dimethyl Phthalate	50	33.3	67	63-106
84-74-2	Di-n-butyl Phthalate	50	36.5	73	65-107
117-84-0	Di-n-octyl Phthalate	50	39.4	79	62-118
121-14-2	2,4-Dinitrotoluene	50	37.4	75	61-110
606-20-2	2,6-Dinitrotoluene	50	34.9	70	63-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.7	77	61-117
206-44-0	Fluoranthene	50	33.1	66	63-106
86-73-7	Fluorene	50	34.9	70	62-108
118-74-1	Hexachlorobenzene	50	30.2	60*	63-108
87-68-3	Hexachlorobutadiene	50	31.5	63	42-102
77-47-4	Hexachlorocyclopentadiene	50	37.0	74	39-102
67-72-1	Hexachloroethane	50	33.4	67	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	36.0	72	64-119
78-59-1	Isophorone	50	34.8	70	43-87
91-57-6	2-Methylnaphthalene	50	33.0	66	51-102
91-20-3	Naphthalene	50	32.6	65	47-100
88-74-4	2-Nitroaniline	50	47.6	95	54-128
99-09-2	3-Nitroaniline	50	33.1	66	56-106
100-01-6	4-Nitroaniline	50	34.8	70	55-120
98-95-3	Nitrobenzene	50	34.8	70	50-104
621-64-7	N-Nitrosodi-n-propylamine	50	33.9	68	52-104
86-30-6	N-Nitrosodiphenylamine	50	35.9	72	64-108
85-01-8	Phenanthrene	50	35.4	71	66-110
129-00-0	Pyrene	50	37.6	75	64-113
120-82-1	1,2,4-Trichlorobenzene	50	29.8	60	45-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	37%	14-67%
4165-62-2	Phenol-d5	26%	10-50%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-BS	X073623.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	66%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	68%	40-106%
1718-51-0	Terphenyl-d14	75%	39-121%

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-MS	X073633.D	1	10/28/20	MV	10/28/20	OP82704	SX2997
OP82704-MSD	X073634.D	1	10/29/20	MV	10/28/20	OP82704	SX2997
FA80054-24	X073632.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Compound	FA80054-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		192	56.8	30	192	41.5	22	31	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		96.2	53.8	56	96.2	45.3	47*	17	54-103/23
95-57-8	2-Chlorophenol	ND		96.2	48.5	50*	96.2	42.6	44*	13	52-98/25
120-83-2	2,4-Dichlorophenol	ND		96.2	51.4	53	96.2	44.2	46*	15	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	53.5	56	96.2	46.7	49	14	43-90/27
51-28-5	2,4-Dinitrophenol	ND		192	116	60	192	95.0	49	20	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		192	123	64*	192	105	55*	16	66-121/23
95-48-7	2-Methylphenol	ND		96.2	42.7	44	96.2	38.2	40*	11	43-90/28
	3&4-Methylphenol	ND		192	86.1	45	192	76.1	40	12	36-88/28
88-75-5	2-Nitrophenol	ND		96.2	58.6	61	96.2	51.8	54	12	53-102/29
100-02-7	4-Nitrophenol	ND		192	70.3	37	192	61.0	32	14	18-62/33
87-86-5	Pentachlorophenol	ND		192	114	59*	192	96.3	50*	17	61-115/26
108-95-2	Phenol	ND		96.2	27.4	28	96.2	25.1	26	9	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		96.2	59.0	61*	96.2	49.2	51*	18	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		96.2	58.4	61	96.2	50.2	52*	15	59-107/23
83-32-9	Acenaphthene	ND		96.2	61.1	64	96.2	53.7	56*	13	61-107/22
208-96-8	Acenaphthylene	ND		96.2	66.8	69	96.2	59.1	61	12	60-104/22
120-12-7	Anthracene	ND		96.2	63.2	66	96.2	54.1	56*	16	65-108/20
56-55-3	Benzo(a)anthracene	ND		96.2	66.0	69	96.2	56.7	59*	15	66-111/22
50-32-8	Benzo(a)pyrene	ND		96.2	69.8	73	96.2	60.0	62	15	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		96.2	70.6	73	96.2	60.8	63*	15	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		96.2	69.0	72	96.2	60.8	63*	13	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		96.2	67.7	70	96.2	60.0	62*	12	65-114/24
100-51-6	Benzyl Alcohol	ND		96.2	50.8	53	96.2	45.3	47	11	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		96.2	57.7	60*	96.2	50.0	52*	14	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	72.0	75	96.2	62.5	65	14	65-112/24
86-74-8	Carbazole	ND		96.2	66.1	69	96.2	57.1	59	15	59-113/21
106-47-8	4-Chloroaniline	ND		96.2	52.3	54	96.2	47.3	49	10	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		96.2	53.4	56	96.2	47.9	50*	11	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		96.2	56.4	59	96.2	50.2	52*	12	53-100/27
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		96.2	60.7	63	96.2	54.9	57	10	45-106/26
91-58-7	2-Chloronaphthalene	ND		96.2	59.0	61	96.2	52.6	55*	11	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		96.2	57.7	60*	96.2	50.3	52*	14	62-105/20
218-01-9	Chrysene	ND		96.2	68.5	71	96.2	58.6	61*	16	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	68.1	71	96.2	59.9	62*	13	66-119/24
132-64-9	Dibenzofuran	ND		96.2	62.7	65	96.2	54.7	57*	14	61-106/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-MS	X073633.D	1	10/28/20	MV	10/28/20	OP82704	SX2997
OP82704-MSD	X073634.D	1	10/29/20	MV	10/28/20	OP82704	SX2997
FA80054-24	X073632.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Compound	FA80054-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		96.2	54.7	57	96.2	49.8	52	9	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		96.2	53.8	56	96.2	49.1	51	9	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		96.2	54.2	56	96.2	49.3	51	9	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		96.2	46.0	48	96.2	39.4	41*	15	46-117/29
84-66-2	Diethyl Phthalate	ND		96.2	63.8	66	96.2	55.1	57*	15	64-108/21
131-11-3	Dimethyl Phthalate	ND		96.2	60.4	63	96.2	52.6	55*	14	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		96.2	67.8	71	96.2	58.5	61*	15	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		96.2	79.3	82	96.2	67.4	70	16	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		96.2	67.9	71	96.2	58.9	61	14	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		96.2	64.7	67	96.2	55.4	58*	15	63-108/21
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	74.8	78	96.2	64.0	67	16	61-117/23
206-44-0	Fluoranthene	ND		96.2	62.6	65	96.2	53.9	56*	15	63-106/21
86-73-7	Fluorene	ND		96.2	63.4	66	96.2	54.2	56*	16	62-108/20
118-74-1	Hexachlorobenzene	ND		96.2	56.1	58*	96.2	46.8	49*	18	63-108/22
87-68-3	Hexachlorobutadiene	ND		96.2	53.0	55	96.2	47.9	50	10	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		96.2	62.6	65	96.2	57.6	60	8	39-102/29
67-72-1	Hexachloroethane	ND		96.2	58.2	61	96.2	52.1	54	11	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	71.5	74	96.2	62.8	65	13	64-119/24
78-59-1	Isophorone	ND		96.2	60.1	63	96.2	53.9	56	11	43-87/25
91-57-6	2-Methylnaphthalene	ND		96.2	56.4	59	96.2	50.3	52	11	51-102/26
91-20-3	Naphthalene	ND		96.2	56.3	59	96.2	50.4	52	11	47-100/29
88-74-4	2-Nitroaniline	ND		96.2	86.7	90	96.2	75.7	79	14	54-128/24
99-09-2	3-Nitroaniline	ND		96.2	61.8	64	96.2	53.9	56	14	56-106/27
100-01-6	4-Nitroaniline	ND		96.2	62.9	65	96.2	53.9	56	15	55-120/24
98-95-3	Nitrobenzene	ND		96.2	59.4	62	96.2	54.5	57	9	50-104/28
621-64-7	N-Nitrosodi-n-propylamine	ND		96.2	57.9	60	96.2	51.9	54	11	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		96.2	66.0	69	96.2	57.0	59*	15	64-108/23
85-01-8	Phenanthrene	ND		96.2	64.4	67	96.2	55.3	58*	15	66-110/21
129-00-0	Pyrene	ND		96.2	68.1	71	96.2	59.3	62*	14	64-113/23
120-82-1	1,2,4-Trichlorobenzene	ND		96.2	52.2	54	96.2	46.3	48	12	45-97/28

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-24	Limits
367-12-4	2-Fluorophenol	36%	32%	22%	14-67%
4165-62-2	Phenol-d5	27%	24%	15%	10-50%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA80054
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP82704-MS	X073633.D	1	10/28/20	MV	10/28/20	OP82704	SX2997
OP82704-MSD	X073634.D	1	10/29/20	MV	10/28/20	OP82704	SX2997
FA80054-24	X073632.D	1	10/28/20	MV	10/28/20	OP82704	SX2997

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA80054-24

CAS No.	Surrogate Recoveries	MS	MSD	FA80054-24	Limits
118-79-6	2,4,6-Tribromophenol	64%	53%	54%	33-118%
4165-60-0	Nitrobenzene-d5	64%	57%	57%	42-108%
321-60-8	2-Fluorobiphenyl	62%	54%	56%	40-106%
1718-51-0	Terphenyl-d14	69%	59%	68%	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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38050 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date:				10/29/20		10/29/20		10/29/20	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.50	.03	.03	-0.028	<0.50	0.0047	<0.50	0.064	<0.50

Associated samples MP38050: FA80054-24

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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38050 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/29/20 10/29/20

Metal	FA80049-1F Original	DUP	RPD	QC Limits	FA80049-1F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	2.8	3	93.3	80-120

Associated samples MP38050: FA80054-24

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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38050 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/29/20

Metal	FA80049-1F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.8	3	93.3	0.0	20

Associated samples MP38050: FA80054-24

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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38050 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/29/20

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.1	3	103.3	80-120

Associated samples MP38050: FA80054-24

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38050 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/29/20

Metal	FA80049-1F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP38050: FA80054-24

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38068
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/02/20

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1	3.1	* (a)
Arsenic	10	1.3	1.3	-2.1	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2	-0.24	<4.0
Cadmium	5.0	.2	.2	-0.42	<5.0
Calcium	1000	50	50		
Chromium	10	1	1	0.20	<10
Cobalt	50	.2	.2		
Copper	25	1	1	-0.50	<25
Iron	300	17	17		
Lead	5.0	1	1.1	-0.20	<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	2.2	<10
Silver	10	.7	.7	-0.10	<10
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4	-7.8	<10 (b)
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4	1.7	<20

Associated samples MP38068: FA80054-24

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) All associated samples with results >MDL "B" coded.
(b) Negative bias.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38068
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:			11/02/20					11/02/20	
Metal	FA80054-24 Original	DUP	RPD	QC Limits	FA80054-24 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	4.1	5.6	30.9 (a)	0-20	4.1	480	500	95.2	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	1870	2000	93.5	80-120
Barium									
Beryllium	0.56	0.57	1.8	0-20	0.56	49.6	50	98.1	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	48.4	50	96.8	80-120
Calcium	anr								
Chromium	33.3	33.6	0.9	0-20	33.3	239	200	102.9	80-120
Cobalt	anr								
Copper	32.6	33.0	1.2	0-20	32.6	276	250	97.4	80-120
Iron									
Lead	3.8	2.8	30.3 (a)	0-20	3.8	478	500	94.8	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	8.0	8.1	1.2	0-20	8.0	506	500	99.6	80-120
Potassium									
Selenium	2.7	0.0	200.0(a)	0-20	2.7	1800	2000	89.9	80-120
Silver	0.0	0.0	NC	0-20	0.0	47.5	50	95.0	80-120
Sodium									
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1900	2000	95.0	80-120
Tin	anr								
Titanium									
Vanadium									
Zinc	61.3	62.7	2.3	0-20	61.3	555	500	98.7	80-120

Associated samples MP38068: FA80054-24

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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38068
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/02/20

Metal	FA80054-24 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	4.1	460	500	91.2	4.3	20
Arsenic	0.0	1770	2000	88.5	5.5	20
Barium						
Beryllium	0.56	48.2	50	95.3	2.9	20
Cadmium	0.0	45.8	50	91.6	5.5	20
Calcium	anr					
Chromium	33.3	232	200	99.4	3.0	20
Cobalt	anr					
Copper	32.6	266	250	93.4	3.7	20
Iron						
Lead	3.8	455	500	90.2	4.9	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	8.0	483	500	95.0	4.7	20
Potassium						
Selenium	2.7	1710	2000	85.4	5.1	20
Silver	0.0	46.3	50	92.6	2.6	20
Sodium						
Strontium						
Thallium	0.0	1820	2000	91.0	4.3	20
Tin	anr					
Titanium						
Vanadium						
Zinc	61.3	526	500	92.9	5.4	20

Associated samples MP38068: FA80054-24

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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38068
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/02/20

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	491	500	98.2	80-120
Arsenic	1790	2000	89.5	80-120
Barium				
Beryllium	52.1	50	104.2	80-120
Cadmium	47.1	50	94.2	80-120
Calcium	anr			
Chromium	202	200	101.0	80-120
Cobalt	anr			
Copper	253	250	101.2	80-120
Iron				
Lead	493	500	98.6	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	516	500	103.2	80-120
Potassium				
Selenium	1770	2000	88.5	80-120
Silver	49.7	50	99.4	80-120
Sodium				
Strontium				
Thallium	2000	2000	100.0	80-120
Tin	anr			
Titanium				
Vanadium				
Zinc	505	500	101.0	80-120

Associated samples MP38068: FA80054-24

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38068
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/02/20

Metal	FA80054-24 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	4.10	8.50	107.3(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium				
Beryllium	0.560	0.00	100.0(a)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	33.3	32.9	1.2	0-10
Cobalt	anr			
Copper	32.6	32.4	0.6	0-10
Iron				
Lead	3.80	8.00	110.5(a)	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	8.00	7.00	12.5 (a)	0-10
Potassium				
Selenium	2.70	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin	anr			
Titanium				
Vanadium				
Zinc	61.3	64.6	5.4	0-10

Associated samples MP38068: FA80054-24

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: FA80054
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP38068
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/02/20

Metal	Sample ml	Final ml	FA80054-24 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	4.1	4.018	99.4	0.2	5	100	95.4	80-120
Arsenic	9.8	10			91.1	0.2	5	100	91.1	80-120
Barium										
Beryllium	9.8	10	.56	.5488	52.28	0.2	2.5	50	103.5	80-120
Cadmium	9.8	10			45.92	0.2	2.5	50	91.8	80-120
Calcium										
Chromium	9.8	10	33.3	32.634	81.9	0.2	2.5	50	98.5	80-120
Cobalt										
Copper	9.8	10	32.6	31.948	131	0.2	5	100	99.1	80-120
Iron										
Lead	9.8	10	3.8	3.724	51.2	0.2	2.5	50	95.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10	8	7.84	108.8	0.2	5	100	101.0	80-120
Potassium										
Selenium	9.8	10	2.7	2.646	86.9	0.2	5	100	84.3	80-120
Silver	9.8	10			47.5	0.2	2.5	50	95.0	80-120
Sodium										
Strontium										
Thallium	9.8	10			90.6	0.2	5	100	90.6	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	61.3	60.074	302.8	0.2	12.5	250	97.1	80-120

Associated samples MP38068: FA80054-24

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 Methods Data Review* (USEPA, January 2017) and *USEPA National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, January 2017). In addition, method-specific criteria set forth in the compendium of analytical methods found in the *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846)*, *Update V* (USEPA, July 2014) 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 FA80016 were collected on October 19-20, 2020 for UTC - 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 8260D

In sample MW-22D-a, results of all analytes were qualified "/M/D" due to the relative percent difference between the matrix spike and matrix spike duplicate exceeding the established criteria of 35%. These qualifiers indicate imprecision with laboratory methodology, instrumentation, or matrix interference.

Data Summary and Usability

The QC excursions encountered during the validation of this data set did not result in the rejection of any data. 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), July 2014. *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update V.*

United States Environmental Protection Agency (USEPA), January 2017. *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*. Publication #EPA-540-R-2017-001.

United States Environmental Protection Agency (USEPA), January 2017. *USEPA National Functional Guidelines for Organic Superfund Methods Data Review.* Publication #EPA-540-R-2017-002.

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 Methods Data Review* (USEPA, January 2017) and *USEPA National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, January 2017). In addition, method-specific criteria set forth in the compendium of analytical methods found in the *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846)*, *Update V* (USEPA, July 2014) 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 FA80054 were collected on October 20-21, 2020 for UTC - 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 8260D

In sample MW-8, results of methyl bromide were qualified "/M/m" due to recovery in the associated matrix spike sample below the established criteria of 40-160% (37%). These qualifiers indicate the results should be considered biased low.

Data Summary and Usability

The QC excursions encountered during the validation of this data set did not result in the rejection of any data. 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), July 2014. *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update V.*

United States Environmental Protection Agency (USEPA), January 2017. *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*. Publication #EPA-540-R-2017-001.

United States Environmental Protection Agency (USEPA), January 2017. *USEPA National Functional Guidelines for Organic Superfund Methods Data Review.* Publication #EPA-540-R-2017-002.

APPENDIX D

HISTORICAL VOC DATA

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-1	6/4/2003	µg/L	<50	<50	<50	NA	NA	NA	NA	<50	NA	140	**15000**	<250	<50	<50	<50	<150
MW-1	12/30/2003	µg/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	**11000**	<800	<800	<800	<800	<800
MW-1	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-1	10/30/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	11.6	<1.4	<10	**277**	<1.5	<1.1	4.2	<2	<3.6
MW-1	4/24/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	5	<0.55	<4	**195**	<0.6	<0.44	2.2	<0.82	<1.4
MW-1	10/15/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	48.8	<0.55	<4	**656**	<0.6	<0.44	**15.9**	<0.82	<1.4
MW-1	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.9	<0.28	<2	**111**	<0.3	<0.22	1.2	<0.41	<0.72
MW-1	10/21/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.4	<0.28	<2	**103**	<0.3	<0.22	2.9	<0.41	<0.72
MW-2	6/4/2003	µg/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	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	4.5	<2	<2	<2	<2	<4
MW-2	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-2	10/31/2018	µg/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-2	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.6	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/20/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.4	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-3	6/4/2003	µg/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	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	**220**	<2	<2	<2	<2	<4
MW-3	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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
MW-3	10/31/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.51	<0.28	<2	**86.8**	<0.3	<0.22	1.3	<0.41	<0.72
MW-3	4/23/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	1.9	<0.55	<4	**132**	<0.6	<0.44	1.7	<0.82	<1.4
MW-3	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.44 J	<0.28	<2	**98.8**	<0.3	<0.22	1.3	<0.41	<0.72
MW-3	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2	<0.28	<2	**122 E**	<0.3	<0.22	1.8	<0.41	<0.72
MW-3	10/20/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.2	<0.28	<2	**119**	<0.3	<0.22	3.1	<0.41	<0.72
MW-3D	1/9/2008	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-3D	10/31/2018	µg/L	<1.2	<1.7	**7.8**	<1.6	<1.2	<2.7	<1.5	9	<1.4	<10	**432**	<1.5	<1.1	**6.4**	<2	<3.6
MW-3D	4/23/2019	µg/L	<1.2	<1.7	5.6	<1.6	<1.2	<2.7	<1.5	7.4	<1.4	<10	**296**	<1.5	<1.1	**9**	<2	<3.6
MW-3D	10/15/2019	µg/L	<1.2	<1.7	6.3	<1.6	<1.2	<2.7	<1.5	6.8	<1.4	<10	**258**	<1.5	<1.1	**5.7**	<2	<3.6
MW-3D	4/15/2020	µg/L	<0.62	<0.85	4.8	<0.78	<0.61	<1.3	<0.75	8.7	<0.69	<5	**220**	<0.75	<0.55	**9.6**	<1	<1.8
MW-3D	10/20/2020	ug/l	<0.62	<0.85	5.9	<0.78	<0.61	<1.3	<0.75	8	<0.69	<5	**347**	<0.75	<0.55	**5.3**	<1	<1.8

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-3D1	11/5/2009	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-3D1	10/31/2018	µg/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-3D1	10/15/2019	µg/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-3D1	10/21/2020	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	µg/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	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-4	3/14/2005	µg/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	µg/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	µg/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	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	4/29/2010	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/31/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.28	<0.3	<0.22	<0.35	<0.41	<0.72
MW-4	10/16/2019	µg/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	10/20/2020	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	µg/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	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	**230**	<2	<2	<2	<2	<4
MW-5	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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
MW-5	11/1/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.5	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	4/24/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.2	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.69 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	4/15/2020	µg/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-5	10/20/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.89 J	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-6	6/4/2003	µg/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	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-6	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-6	10/30/2018	µg/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-6	10/15/2019	µg/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-6	10/20/2020	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	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	5.3
MW-7	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	11/1/2018	µg/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	4/24/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.38	<0.22	<0.35	<0.41	<0.72
MW-7	10/16/2019	µg/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	4/15/2020	µg/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	10/21/2020	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-8	12/31/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	**30**	1.9J	<2	<2	<2	4.7
MW-8	3/14/2005	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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
MW-8	10/30/2018	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	2.7	<0.55	<4	**176**	<0.6	<0.44	**21.5**	<0.82	<1.4
MW-8	4/24/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.8	<0.28	<2	**174**	<0.3	<0.22	**14.2**	<0.41	<0.72
MW-8	10/14/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	3.1	<0.55	<4	**299**	<0.6	<0.44	**28.9**	<0.82	<1.4
MW-8	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	4	<0.28	<2	**346**	<0.3	<0.22	**31**	<0.41	<0.72
MW-8	10/21/2020	ug/l	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	7.3	<0.69	<5	**355**	<0.75	<0.55	**43.6**	<1	<1.8
MW-9/MWT-1	12/31/2003	µg/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	**7500**	<800	<800	<800	<800	<2,000
MW-9/MWT-1	3/14/2005	µg/L	<1.00	<1.00	**7.3**	NA	NA	NA	NA	19.1	NA	<1.00	**3520**	NA	<1.00	**76**	<1.00	NA
MW-9/MWT-1	6/1/2005	µg/L	<1.00	<1.00	6.7	NA	NA	NA	NA	**226**	NA	<1.00	**4670**	NA	1.4	**280**	<1.00	NA
MW-9/MWT-1	9/20/2005	µg/L	1.28	<1.00	**13.6**	NA	NA	NA	NA	**158**	NA	<1.00	**5000**	NA	1.9	**295**	<1.00	NA
MW-9/MWT-1	12/12/2005	µg/L	2.05	<1.00	**8.94**	NA	NA	NA	NA	**182**	NA	<1.00	**3920**	NA	1.37	**286**	<1.00	NA
MW-9/MWT-1	3/28/2006	µg/L	<1.00	<1.00	**8.51**	NA	NA	NA	NA	**362**	NA	<1.00	**4560**	NA	1.57	**372**	<1.00	NA
MW-9/MWT-1	6/26/2006	µg/L	<1.0	<1.0	**12**	NA	NA	NA	NA	**520**	NA	<1.0	**1500**	NA	1.7	**330**	<1.0	NA
MW-9/MWT-1	10/21/2006	µg/L	<1.0	<1.0	**23.5**	NA	NA	NA	NA	**540**	NA	<1.0	**7490**	NA	<1.0	**504**	<1.0	NA
MW-9/MWT-1	1/12/2007	µg/L	<1.00	<1.00	**25.3**	NA	NA	NA	NA	**442**	NA	<1.00	**5630**	NA	1.97	**626**	<1.00	NA
MW-9/MWT-1	1/9/2008	µg/L	1.08	<1.00	5.01	NA	NA	NA	NA	**271**	NA	<1.00	**2410**	NA	1.39	**297**	**8.73**	NA
MW-9/MWT-1	11/4/2009	µg/L	<1.00	<1.00	**11.6**	NA	NA	NA	NA	**379**	NA	<1.00	**2950**	NA	2.21	**559**	<1.00	NA
MW-9/MWT-1	4/29/2010	µg/L	<1.00	<1.00	**11.1**	NA	NA	NA	NA	**236**	NA	<1.00	**4170**	NA	3.41	**320**	**4.79**	NA
MW-9/MWT-1	10/25/2010	µg/L	<20.0	<20.0	<20.0	NA	NA	NA	NA	**326**	NA	<20.0	**3660**	NA	<20.0	**579**	<20.0	NA
MW-9/MWT-1	5/24/2011	µg/L	<10	<10	<10	NA	NA	NA	NA	**160**	NA	<10	**1200**	<10	<10	**380**	<20	<100
MW-9/MWT-1	11/9/2011	µg/L	1.2	<1.00	**19.7**	NA	NA	NA	NA	**200**	NA	<1.00	**4000**	NA	1.47	**450**	<1.00	NA
MW-9/MWT-1	5/8/2012	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-9	10/30/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	**75.6**	<1.4	<10	**2240**	<1.5	<1.1	**441**	<2	<3.6
MW-9	4/23/2019	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	9.6	<1.4	<10	**513**	<1.5	<1.1	**47.1**	<2	<3.6
MW-9	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.2	<0.28	<2	**194 /M/M**	<0.3	<0.22	**24.6**	<0.41	<0.72
MW-9	4/15/2020	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	28.1	<0.69	<5	**402 /M/m**	<0.75	<0.55	**97.4 /M/m**	<1	<1.8
MW-9	10/20/2020	ug/l	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	17.3	<1.4	<10	**443**	<1.5	<1.1	**116**	<2	<3.6

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-9D	1/9/2008	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-9D	10/30/2018	µg/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-9D	10/16/2019	µg/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-9D	10/20/2020	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-10/MWT-2	12/31/2003	µg/L	<200	<200	**520**	NA	NA	NA	NA	<200	NA	<200	**5800**	<200	<200	<200	<200	<400
MW-10/MWT-2	3/14/2005	µg/L	26.4	<1.00	**18.6**	NA	NA	NA	NA	40.1	NA	<1.00	**4360**	NA	1	**62.3**	<1.00	NA
MW-10/MWT-2	6/1/2005	µg/L	12.7	1.7	**17.5**	NA	NA	NA	NA	40.8	NA	<1.00	**5680**	NA	<1.00	**52**	<1.00	NA
MW-10/MWT-2	9/20/2005	µg/L	9.03	<1.00	**40**	NA	NA	NA	NA	27.8	NA	<1.00	**4360**	NA	<1.00	**46.2**	<1.00	NA
MW-10/MWT-2	12/12/2005	µg/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
MW-10/MWT-2	3/28/2006	µg/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
MW-10/MWT-2	6/26/2006	µg/L	<20	<20	<20	NA	NA	NA	NA	21	NA	<20	**1800**	NA	<20	**31**	<20	NA
MW-10/MWT-2	10/21/2006	µg/L	<100	<100	<100	NA	NA	NA	NA	**121**	NA	<100	**3380**	NA	<100	<100	**114**	NA
MW-10/MWT-2	1/12/2007	µg/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
MW-10/MWT-2	1/9/2008	µg/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
MW-10/MWT-2	11/4/2009	µg/L	1.49	1.56	**82.2**	NA	NA	NA	NA	**1120**	NA	<1.00	**1600**	NA	1.22	**33.9**	<1.00	NA
MW-10/MWT-2	4/29/2010	µg/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
MW-10/MWT-2	10/25/2010	µg/L	<10.0	<10.0	**108**	NA	NA	NA	NA	**1270**	NA	<10.0	**1150**	NA	<10.0	**129**	<10.0	NA
MW-10/MWT-2	5/24/2011	µg/L	<20	<20	<20	NA	NA	NA	NA	**390**	NA	<20	**2000**	<20	<20	**88**	<40.0	<200
MW-10/MWT-2	11/9/2011	µg/L	<5.00	8.8	**285**	NA	NA	NA	NA	**4250**	NA	<5.00	**4670**	NA	<5.00	**154**	<5.00	NA
MW-10/MWT-2	5/8/2012	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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
MW-10	10/30/2018	µg/L	<2.5	<3.4	**8.2**	<3.1	<2.4	<5.3	<3	**135**	<2.8	<20	**1550**	<3	<2.2	**98.3**	<4.1	<7.2
MW-10	4/23/2019	µg/L	<0.25	<0.34	3	<0.31	<0.24	<0.53	<0.3	**72.6**	<0.28	<2	**82.8**	<0.3	<0.22	**28.3**	<0.41	<0.72
MW-10	10/16/2019	µg/L	0.53 J	1.4	**59.1**	<0.31	<0.24	<0.53	<0.3	**1980**	<0.28	<2	**409**	<0.3	0.64 J	**482**	<0.41	<0.72
MW-10	4/15/2020	µg/L	<0.25	<0.34	**7.4**	<0.31	<0.24	<0.53	<0.3	**78.1**	<0.28	<2	**70.3**	<0.3	<0.22	**32.8**	<0.41	<0.72
MW-10	10/20/2020	ug/l	<0.5	<0.68	**9.4**	<0.62	<0.48	<1.1	<0.6	**180**	<0.55	<4	**494**	1.5 J	<0.44	**99.5**	<0.82	<1.4

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-10D	1/9/2008	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-10D	10/30/2018	µg/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-10D	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.25 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-10D	10/20/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.4 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-11/MWT-3	12/31/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-11/MWT-3	3/14/2005	µg/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/MWT-3	3/28/2006	µg/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/MWT-3	1/9/2008	µg/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/MWT-3	11/4/2009	µg/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/MWT-3	4/29/2010	µg/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/MWT-3	5/24/2011	µg/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-11/MWT-3	11/9/2011	µg/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/MWT-3	5/8/2012	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-11	10/30/2018	µg/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-11	10/15/2019	µg/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-11	10/21/2020	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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-12D	10/30/2018	µg/L	<0.25	<0.34	0.49	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**35.1**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	4/23/2019	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**92.1**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	10/15/2019	µg/L	<0.25	<0.34	0.73 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**50.4**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	4/14/2020	µg/L	<0.25	<0.34	1.6	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**129**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	10/21/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**47.3**	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-13D	11/5/2009	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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
MW-13D	10/31/2018	µg/L	0.57	<0.34	2.3	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**73.9**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	4/23/2019	µg/L	0.93	<0.34	3.2	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**170**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	10/16/2019	µg/L	<0.5	<0.68	2	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**126**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-13D	4/15/2020	µg/L	0.61 J	<0.68	3.6	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**171**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-13D	10/21/2020	ug/l	0.51 J	<0.68	2.7	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**139**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-14	11/5/2009	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-14	10/29/2018	µg/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-14	4/23/2019	µg/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-14	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.74 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	4/15/2020	µg/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-14	10/20/2020	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-14D	11/5/2009	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-14D	10/30/2018	µg/L	<0.25	<0.34	0.83	<0.31	<0.24	<0.53	<0.3	0.37	<0.28	<2	**54.3**	<0.3	<0.22	0.48	<0.41	<0.72
MW-14D	4/23/2019	µg/L	<0.25	<0.34	0.99	<0.31	<0.24	<0.53	<0.3	0.51	<0.28	<2	**80.6**	<0.3	<0.22	0.62	<0.41	<0.72
MW-14D	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**65**	<0.3	<0.22	0.58 J	<0.41	<0.72
MW-14D	4/15/2020	µg/L	<0.25	<0.34	0.95 J	<0.31	<0.24	<0.53	<0.3	0.44 J	<0.28	<2	**59.9**	<0.3	<0.22	0.53 J	<0.41	<0.72
MW-14D	10/20/2020	ug/l	<0.25	<0.34	0.85 J	<0.31	<0.24	<0.53	<0.3	0.49 J	<0.28	<2	**53.1**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	5/25/2011	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/29/2018	µg/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	4/22/2019	µg/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	10/14/2019	µg/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	4/14/2020	µg/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	10/19/2020	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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/29/2018	µg/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	10/14/2019	µg/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	10/19/2020	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-15D1	5/8/2012	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/16/2017	µg/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	10/29/2018	µg/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	10/14/2019	µg/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	10/19/2020	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	5/25/2011	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/31/2018	µg/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	4/24/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.39	<0.22	<0.35	<0.41	<0.72
MW-16	10/16/2019	µg/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	4/15/2020	µg/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	10/20/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.72 J	<0.22	<0.35	<0.41	<0.72
MW-16D	5/25/2011	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/31/2018	µg/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	10/16/2019	µg/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	10/20/2020	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-17	3/10/2014	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/31/2018	µg/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	10/16/2019	µg/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	10/20/2020	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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	10/31/2018	µg/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	10/16/2019	µg/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	10/20/2020	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	µg/L	<67	<51	<51	<48	<52	<40	<62	<65	<72	639 J	**14000**	<40	<69	<60	<65	<130
MW-19	10/28/2014	µg/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	µg/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	µg/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	µg/L	97.5	<26	39.1	<28	<24	<23	<30	<31	<26	221	**16600**	<20	<33	<27	<31	<56
MW-19	10/24/2016	µg/L	245	<51	<43	<57	<48	<46	<60	<62	<52	<400	**34600**	<40	<66	<54	<63	<110
MW-19	4/11/2017	µg/L	180 J	<85	<81	<78	<61	<130	<75	<69	<69	<500	**24600**	<75	<55	<86	<100	<180
MW-19	10/18/2017	µg/L	74.9 J	<85	<81	<78	<61	<130	**299**	<69	<69	<500	**18700**	<75	<55	<86	<100	<180
MW-19	5/9/2018	µg/L	69.5 J	<85	<81	<78	<61	<130	**92.4 J**	<69	<69	<500	**18700**	<75	<55	<86	<100	<180
MW-19	11/1/2018	µg/L	92.9	<0.34	**36.1**	<0.31	<0.24	<0.53	0.41	6.8	<0.28	<2	**21500**	0.39	<0.22	11.2	<0.41	<0.72
MW-19	4/22/2019	µg/L	95.2	<85	<81	<78	<61	<130	<75	<69	<69	<500	**24400**	<75	<55	<86	<100	<180
MW-19	10/16/2019	µg/L	**230 J**	<85	<81	<78	<61	<130	<75	<69	<69	<500	**37,400**	<75	<55	<86	<100	<180
MW-19	7/15/2020	ug/l	<120	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**29800**	<150	<110	<170	<200	<360
MW-19	10/20/2020	ug/l	**263 J**	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**45600**	<150	<110	<170	<200	<360
MW-20	3/6/2014	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	4.8 J	<1.4	<1.4	<10	**312**	<1.5	<1.1	2.2 J	<2	<3.6
MW-20	5/9/2018	µg/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-20	11/1/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.2	<0.28	<2	**462**	<0.3	<0.22	3.7	<0.41	<0.72
MW-20	4/22/2019	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	<1.4	<1.4	<10	**466**	<1.5	<1.1	3.6	<2	<3.6
MW-20	10/16/2019	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**194**	<0.75	<0.55	1.9 J	<1	<1.8
MW-20	10/20/2020	ug/l	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**271**	<0.75	<0.55	3.6	<1	<1.8

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-21	3/11/2014	µg/L	<67	<51	<51	<48	<52	<40	<62	**466**	<72	765 J	**16300**	<40	<69	**209**	<65	<130
MW-21	10/28/2014	µg/L	<67	<51	<51	<48	<52	<40	<62	**733**	<72	<400	**14500**	<40	<69	**354**	<65	<130
MW-21	4/22/2015	µg/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	µg/L	<13	<10	<14	<10	<11	<15	<15	**339**	<10	<100	**14600**	<20	<10	**180**	<13	<26
MW-21	4/12/2016	µg/L	<10	<13	<11	<14	<12	<12	<15	**383**	<13	<100	**13200**	<10	<17	**216**	<16	<28
MW-21	10/25/2016	µg/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	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	**595**	<0.28	<2	**18000**	<0.3	0.38 J	**260**	<0.41	1.7 J
MW-21	10/18/2017	µg/L	<62	<85	<81	<78	<61	<130	**292**	**573**	<69	<500	**23900**	<75	<55	**252**	<100	<180
MW-21	5/10/2018	µg/L	<62	<85	<81	<78	<61	<130	**98.8 J**	**777**	<69	<500	**25600**	<75	<55	**311**	<100	<180
MW-21	10/31/2018	µg/L	<62	<85	<81	<78	<61	<130	<75	**889**	<69	<500	**23300**	<75	<55	**384**	<100	<180
MW-21	4/23/2019	µg/L	<62	<85	<81	<78	<61	<130	<75	**817**	<69	<500	**20800**	<75	<55	**314**	<100	<180
MW-21	10/16/2019	µg/L	<62	<85	<81	<78	<61	<130	<75	**785**	<69	<500	**24,000**	<75	<55	**403**	<100	<180
MW-21	4/15/2020	µg/L	<25	<34	<32	<31	<24	<53	<30	**343**	<28	<200	**17600**	<30	<22	**181**	<41	<72
MW-21	10/20/2020	ug/l	<50	<68	<64	<62	<48	<110	<60	**689**	<55	<400	**13900**	<60	<44	**314**	<82	<140
MW-21D	3/11/2014	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-21D	11/1/2018	µg/L	<0.5	<0.68	1.1	<0.62	<0.48	<1.1	<0.6	0.89	<0.55	<4	**357**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-21D	4/23/2019	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	0.44	<0.28	<2	**38.7**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**83.8**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**9.6**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	10/20/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**9.8**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-22D	3/11/2014	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-22D	10/31/2018	µg/L	<0.25	<0.34	2.8	<0.31	<0.24	<0.53	<0.3	0.93	<0.28	<2	**159**	<0.3	<0.22	0.74	<0.41	<0.72
MW-22D	4/23/2019	µg/L	<0.5	<0.68	1.6	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**133**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-22D	10/15/2019	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	0.34 J	<0.28	<2	**82.4**	<0.3	<0.22	0.48 J	<0.41	<0.72
MW-22D	4/14/2020	µg/L	<0.25	<0.34	1.4	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**81.1**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-22D	10/20/2020	ug/l	<0.25	<0.34	1.1	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**87.5**	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-23D	3/12/2014	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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	11/1/2018	µg/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	10/15/2019	µg/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	10/20/2020	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	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-24	11/1/2018	µg/L	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	55.3	<6.9	<50	**2320**	<7.5	<5.5	<8.6	<10	<18
MW-24	4/24/2019	µg/L	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	27.4	<5.5	<40	**2290**	<6	<4.4	<6.9	<8.2	<14
MW-24	10/16/2019	µg/L	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	34.8	<6.9	<50	**2,270**	<7.5	<5.5	<8.6	<10	<18
MW-24	4/15/2020	µg/L	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	31	<6.9	<50	**2170**	<7.5	<5.5	<8.6	<10	<18
MW-24	10/20/2020	ug/l	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	14.8 J	<6.9	<50	**1850**	<7.5	<5.5	<8.6	<10	<18
MW-25D	12/4/2015	µg/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	µg/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	µg/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	µg/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	µg/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	µg/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-25D	10/31/2018	µg/L	<0.5	<0.68	3.3	<0.62	<0.48	<1.1	<0.6	1.7	<0.55	<4	**158**	<0.6	<0.44	0.91	<0.82	<1.4
MW-25D	4/23/2019	µg/L	<0.5	<0.68	3.1	<0.62	<0.48	<1.1	<0.6	1	<0.55	<4	195	<0.6	<0.44	1.2	<0.82	<1.4
MW-25D	10/15/2019	µg/L	<0.62	<0.85	2.5	<0.78	<0.61	<1.3	<0.75	0.8 J	<0.69	<5	**130**	<0.75	<0.55	1.2 J	<1	<1.8
MW-25D	4/14/2020	µg/L	<0.5	<0.68	2.4	<0.62	<0.48	<1.1	<0.6	0.97 J	<0.55	<4	**102**	<0.6	<0.44	0.95 J	<0.82	<1.4
MW-25D	10/19/2020	ug/l	<0.5	<0.68	2.3	<0.62	<0.48	<1.1	<0.6	1.2 J	<0.55	<4	**124**	<0.6	<0.44	1 J	<0.82	<1.4
MW-26D	12/4/2015	µg/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	µg/L	<0.2	<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	µg/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	µg/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	µg/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	µg/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-26D	10/31/2018	µg/L	<0.25	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	1.6	<0.28	<2	**89.5**	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	4/23/2019	µg/L	<0.25	<0.34	1.3	<0.31	<0.24	<0.53	<0.3	0.79	<0.28	<2	**89.9**	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	10/15/2019	µg/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**84.1**	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	4/14/2020	µg/L	<0.25	<0.34	1.3	<0.31	<0.24	<0.53	<0.3	0.83 J	<0.28	<2	**55.7**	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	10/20/2020	ug/l	<0.25	<0.34	1.3	<0.31	<0.24	<0.53	<0.3	1	<0.28	<2	**69.3**	<0.3	<0.22	1.1	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

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			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-27	4/12/2017	µg/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	µg/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	µg/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-27	10/30/2018	µg/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-27	4/23/2019	µg/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-27	10/15/2019	µg/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-27	4/14/2020	µg/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-27	10/21/2020	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	µg/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	µg/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	µg/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	10/30/2018	µg/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	4/23/2019	µg/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	10/15/2019	µg/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	4/14/2020	µg/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	10/19/2020	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	µg/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	µg/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	µg/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	10/30/2018	µg/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	4/23/2019	µg/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	10/15/2019	µg/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	4/14/2020	µg/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	10/19/2020	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	µg/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	µg/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	µg/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-30D	10/29/2018	µg/L	<0.25	<0.34	3.3	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**140**	<0.3	<0.22	1	<0.41	<0.72
MW-30D	4/22/2019	µg/L	<0.5	<0.68	2.4	<0.62	<0.48	<1.1	<0.6	1	<0.55	<4	**149**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-30D	10/14/2019	µg/L	<0.5	<0.68	2.3	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**107**	<0.6	<0.44	0.77 J	<0.82	<1.4
MW-30D	4/14/2020	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**67.9**	<0.3	<0.22	1.3	<0.41	<0.72
MW-30D	10/19/2020	ug/l	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	0.99 J	<0.28	<2	**80.2**	<0.3	<0.22	0.8 J	<0.41	<0.72
MW-31D	4/13/2017	µg/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	µg/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	µg/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-31D	10/29/2018	µg/L	<0.5	<0.68	4.8	<0.62	<0.48	<1.1	<0.6	2.6	<0.55	<4	**230**	<0.6	<0.44	0.87	<0.82	<1.4
MW-31D	4/22/2019	µg/L	<0.62	<0.85	4	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**232**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	10/14/2019	µg/L	<0.62	<0.85	4.4	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**192**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	4/14/2020	µg/L	<0.62	<0.85	3.2	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**130**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	10/19/2020	ug/l	<0.62	<0.85	3	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**144**	<0.75	<0.55	<0.86	<1	<1.8
MW-32D	4/13/2017	µg/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	µg/L	<0.25	<0.34	0.69 J	<0.31	<0.24	<0.53	<0.3	0.33 J	<0.28	<2	**26.4**	<0.3	<0.22	0.36 J	<0.41	<0.72
MW-32DR	5/8/2018	µg/L	<0.25	<0.34	0.97 J	<0.31	<0.24	<0.53	0.56 J	0.55 J	<0.28	<2	**30.4**	<0.3	<0.22	0.55 J	<0.41	<0.72
MW-32DR	10/31/2018	µg/L	<0.25	<0.34	0.92	<0.31	<0.24	<0.53	<0.3	0.51	<0.28	<2	**39**	<0.3	<0.22	0.39	<0.41	<0.72
MW-32DR	4/23/2019	µg/L	<0.25	<0.34	0.62	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**33.9**	<0.3	<0.22	0.6	<0.41	<0.72
MW-32DR	10/15/2019	µg/L	<0.25	<0.34	0.66 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**30.5**	<0.3	<0.22	0.47 J	<0.41	<0.72
MW-32DR	4/14/2020	µg/L	<0.25	<0.34	0.62 J	<0.31	<0.24	<0.53	<0.3	0.4 J	<0.28	<2	**26.2**	<0.3	<0.22	0.52 J	<0.41	<0.72
MW-32DR	10/20/2020	ug/l	<0.25	<0.34	0.41 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**26.3**	<0.3	<0.22	0.47 J	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

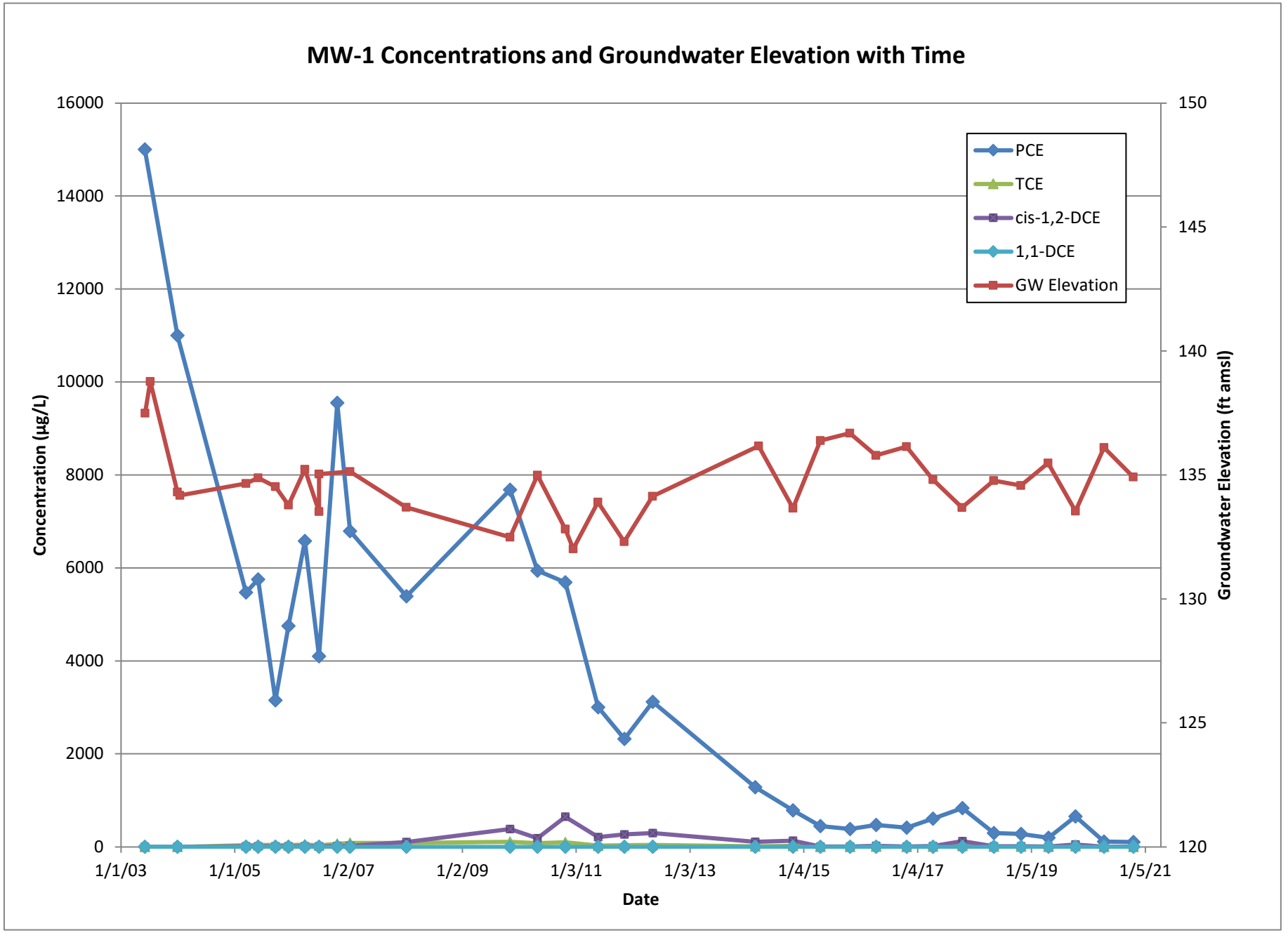
Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MCL			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-33D	11/25/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1	<0.22	<0.35	<0.41	<0.72
MW-33D	4/14/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	22.4	0.51 J	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-33D	10/19/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	0.35 J	<0.28	<0.28	<2	<0.22	0.33 J	<0.22	<0.35	<0.41	<0.72
MW-34D	11/25/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	0.88 J	<0.28	<0.28	<2	<0.22	1.1	<0.22	<0.35	<0.41	<0.72
MW-34D	4/15/2020	µg/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-34D	10/19/2020	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-35D	11/25/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.2	<0.22	<0.35	<0.41	<0.72
MW-35D	4/15/2020	µg/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-35D	10/19/2020	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-36D	11/25/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	0.61 J	<0.28	<0.28	<2	<0.22	0.78 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-36D	4/15/2020	µg/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-36D	10/21/2020	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.52 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-37	7/16/2020	ug/l	40.3 J	<34	**70.8 J**	<31	<24	<53	<30	<28	<28	<200	**13700**	<30	<22	<35	<41	<72
MW-37	10/20/2020	ug/l	104 J	<85	**95.2 J**	<78	<61	<130	<75	<69	<69	<500	**24700**	<75	<55	<86	<100	<180
MWT-4	8/24/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	68.8	NA	<1.00	**136000**	8.79	2.03	**477**	<1.00	37
MWT-5	8/24/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.03	<1.00	<1.00	<1.00	<1.00	<3.00
SW-01-LC	1/5/2018	µg/L	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	NA	2.4	NA	NA	<0.11	<0.11	NA
SW-01-LC	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.53 J	<0.3	<0.22	<0.35	<0.41	<0.72
SW-01-LC	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.44 J	<0.28	<2	2.9	<0.3	<0.22	<0.35	<0.41	<0.72
SW-02-LC	1/5/2018	µg/L	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	NA	<0.14	NA	NA	<0.11	<0.11	NA
SW-02-LC	4/15/2020	µg/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
SW-02-LC	10/21/2020	µg/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
SW-03-HMB	1/5/2018	µg/L	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	NA	<0.14	NA	NA	<0.11	<0.11	NA
SW-03-HMB	4/15/2020	µg/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
SW-03-HMB	10/21/2020	µg/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
SW-04-TLC	4/15/2020	µg/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
SW-04-TLC	10/21/2020	µg/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
SW-1	6/5/2003	µg/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	µg/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	µg/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	µg/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

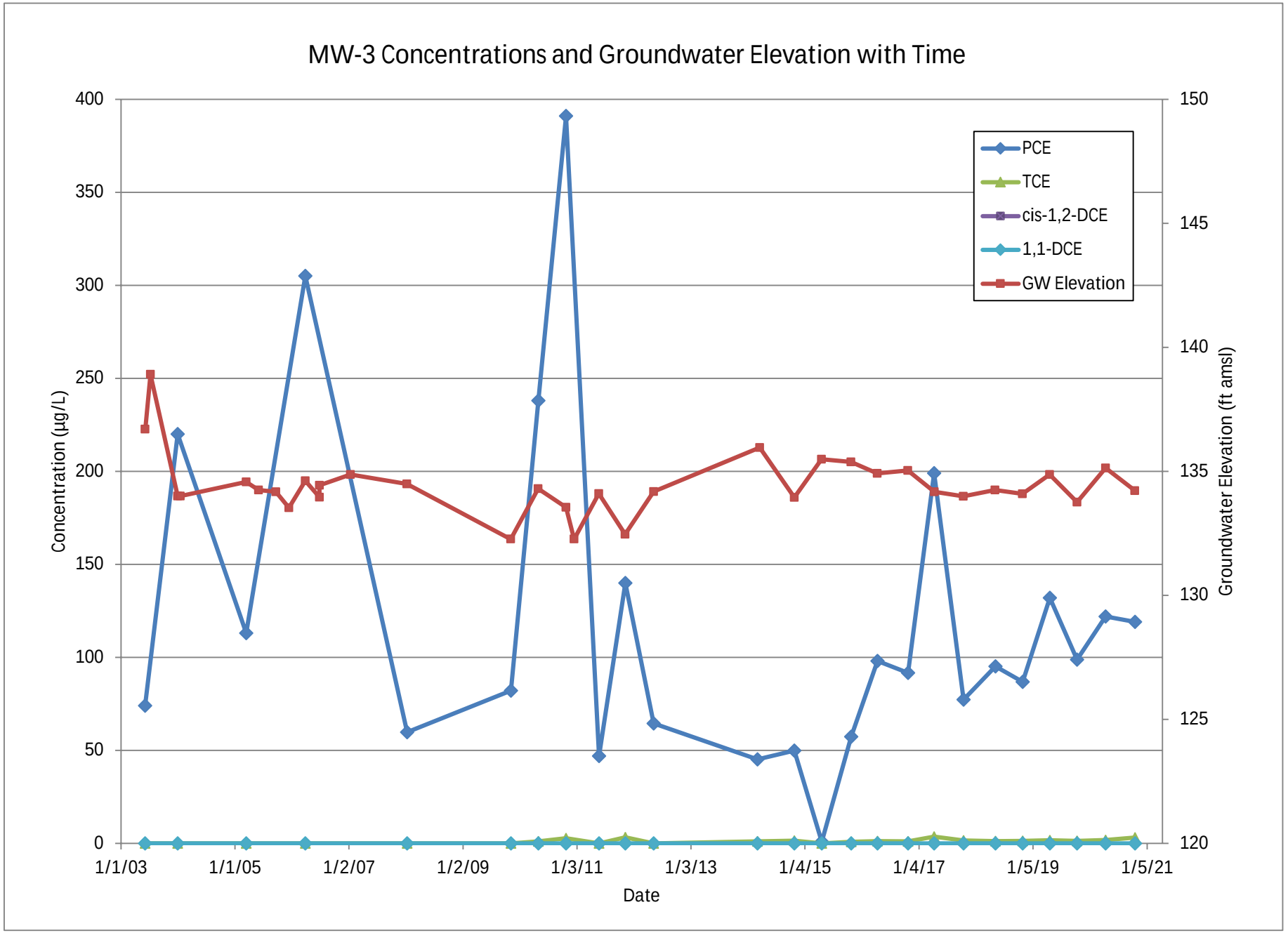
Notes:
µg/L - micrograms per liter NA - Not available/not analyzed NS - No standard

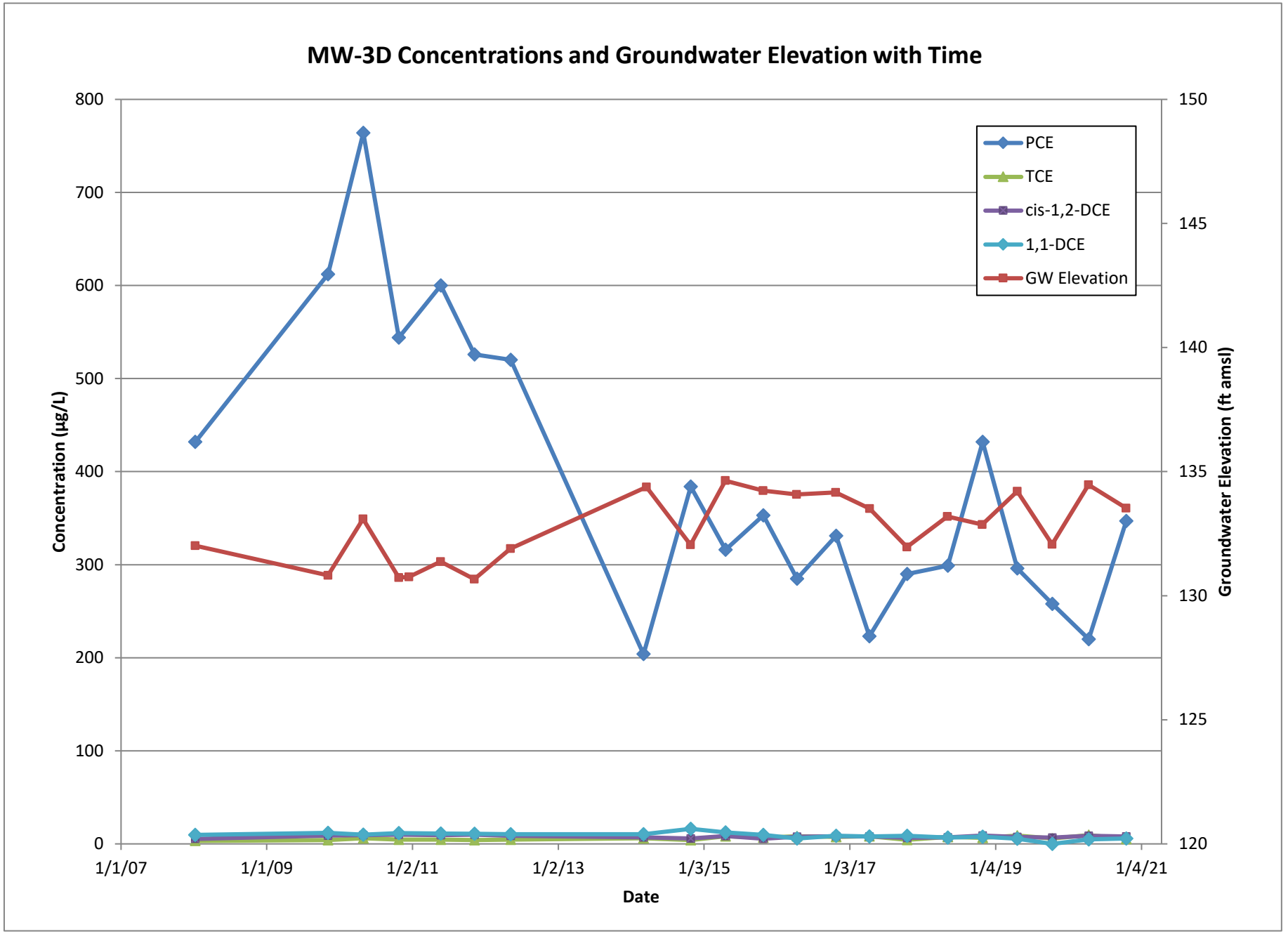
Data Qualifiers:
E - Indicates value exceeds calibration range
J - Estimated concentration above the method detection limit and below the reporting limit.
/J/A - The analyte was positively identified. The quantitation is estimation. Percent difference between the primary and duplicate sample exceeded the establishedcriteria.
/M/M - A matrix effect was present. Matrix spike recovery exceeded established criteria.
/M/m - A matrix effect was present. Matrix spike recovery below established criteria.
//h - Holding time exceeded by less than two times.

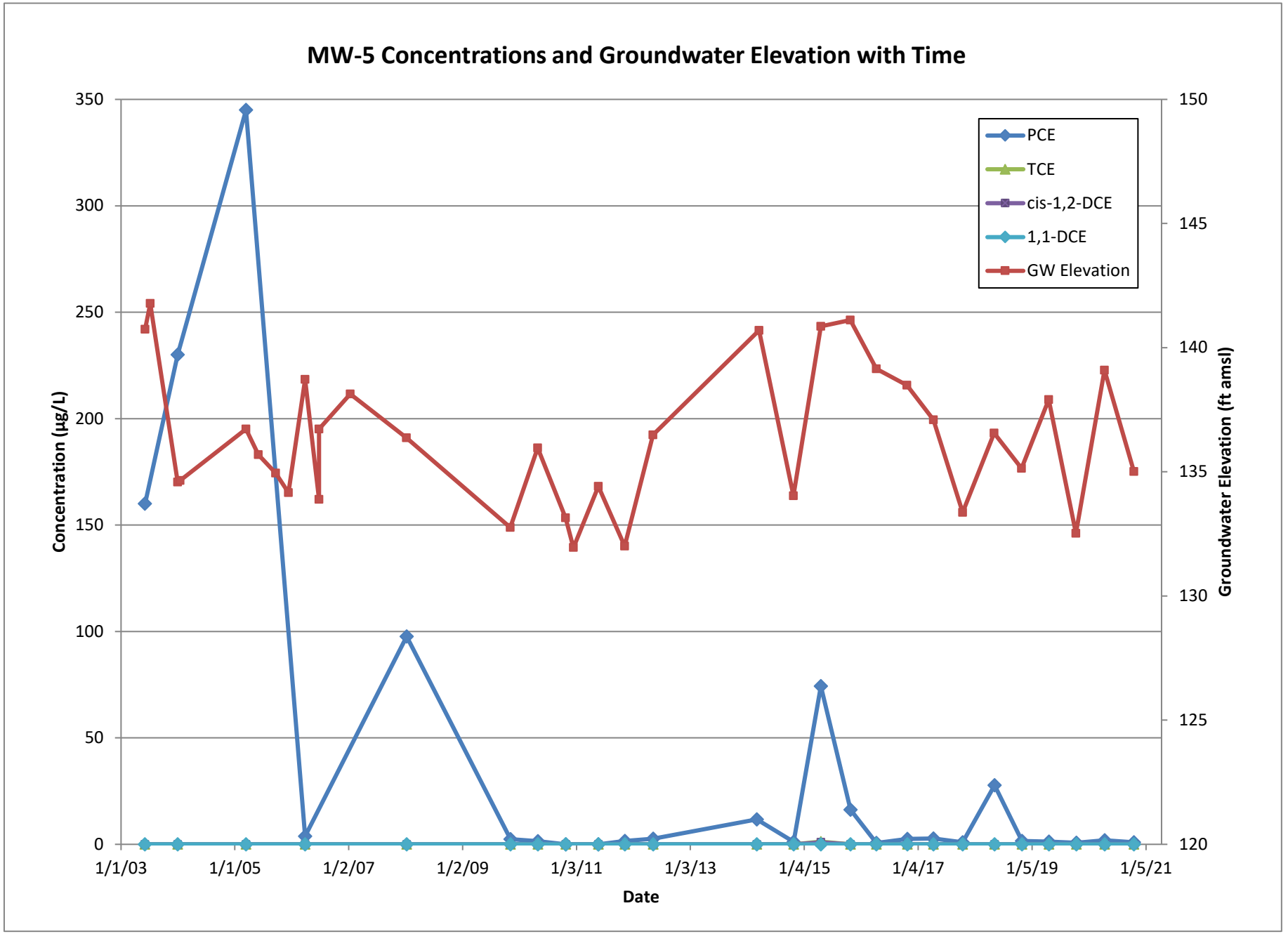
APPENDIX E

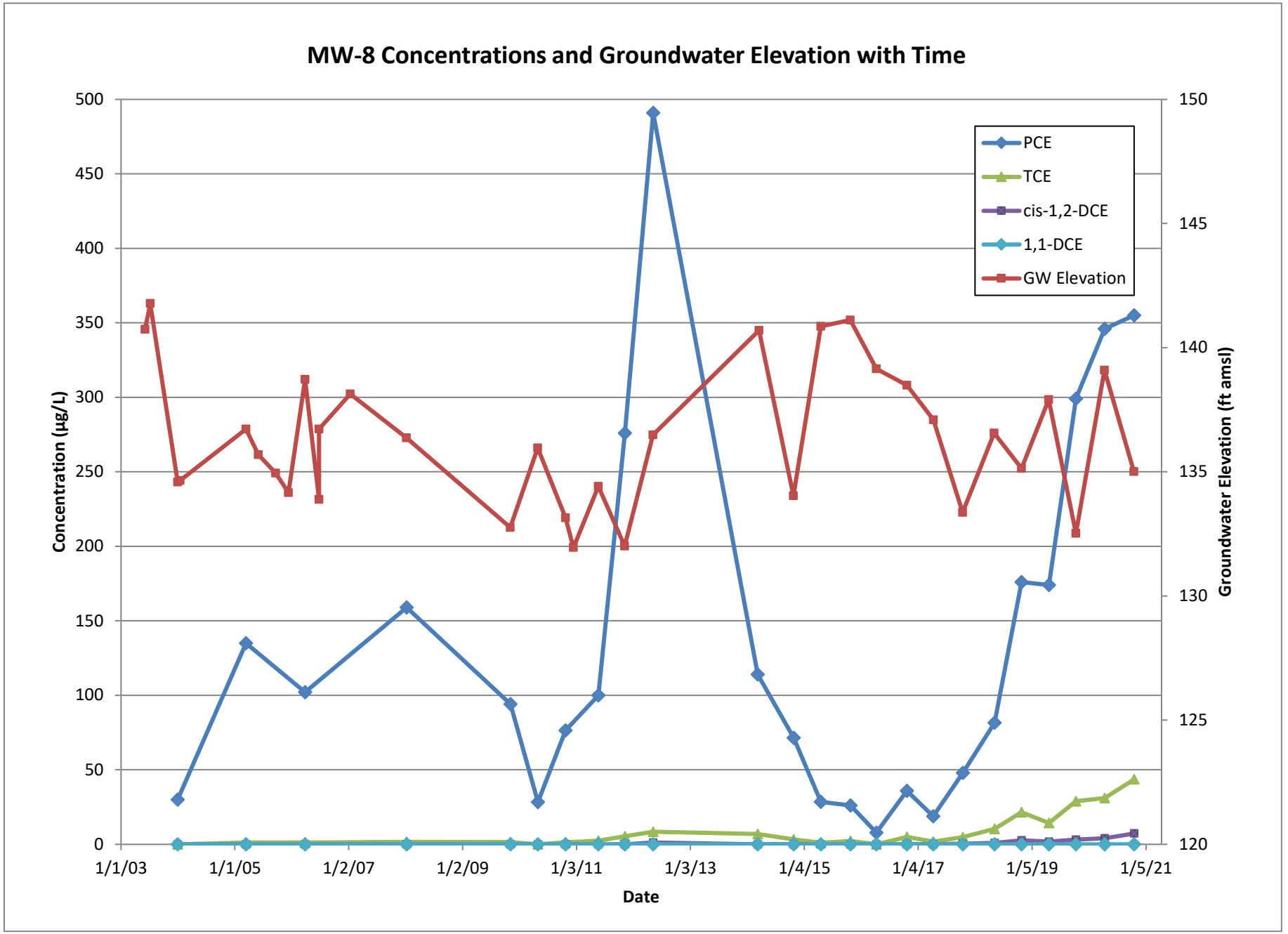
TREND PLOTS

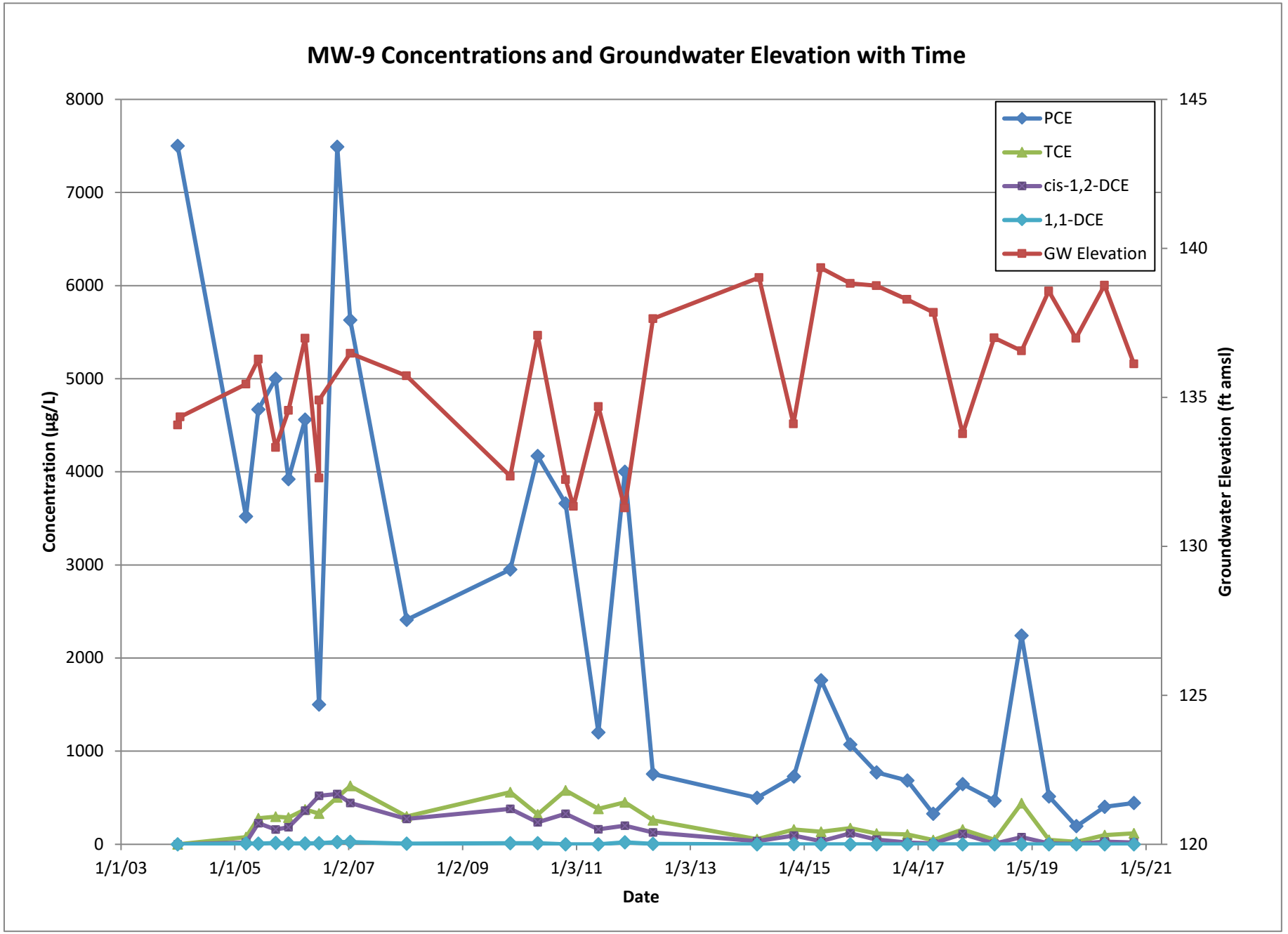

MW-1 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
16000
14000
12000
10000
8000
6000
4000
2000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

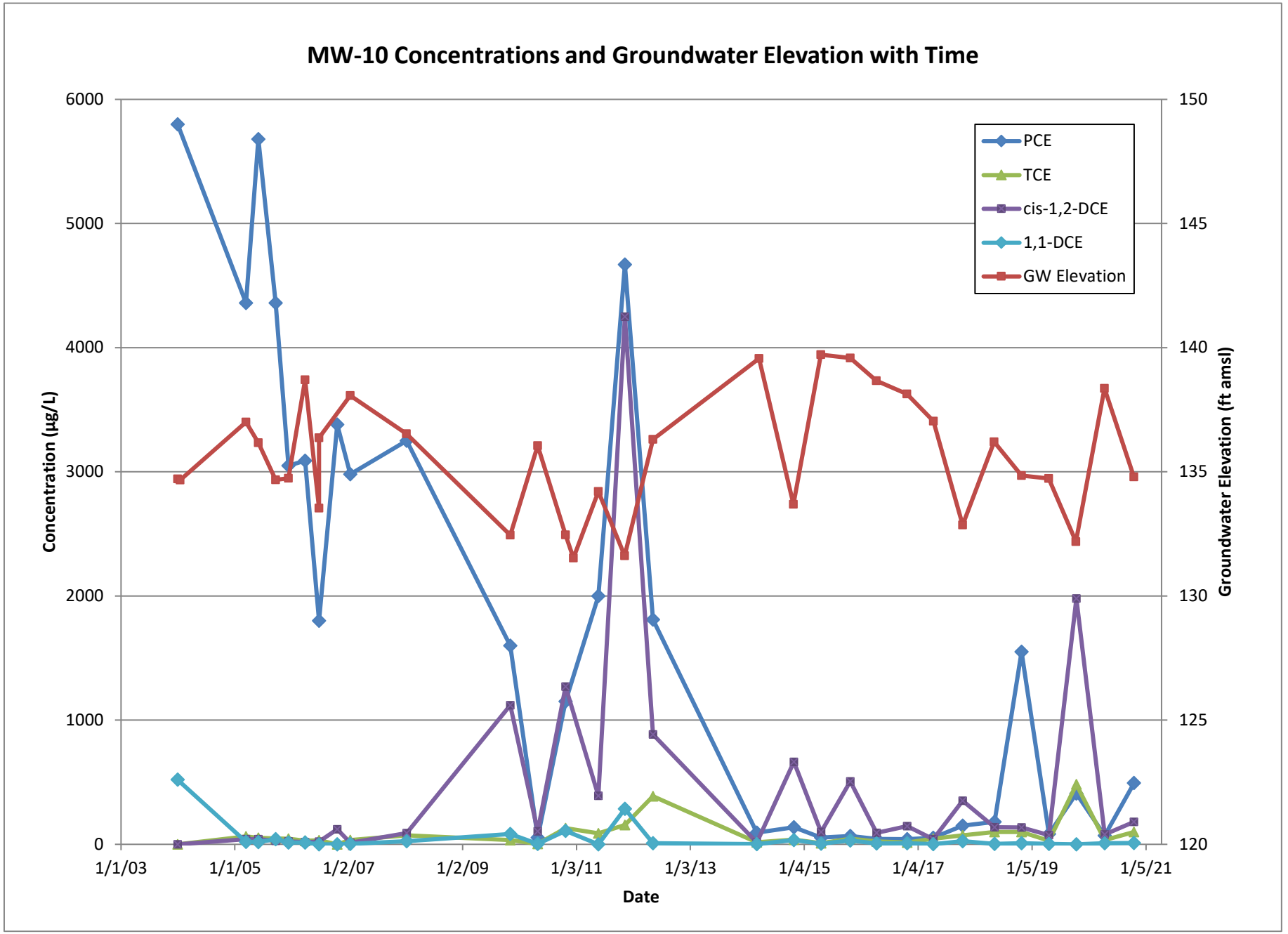

MW-3 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

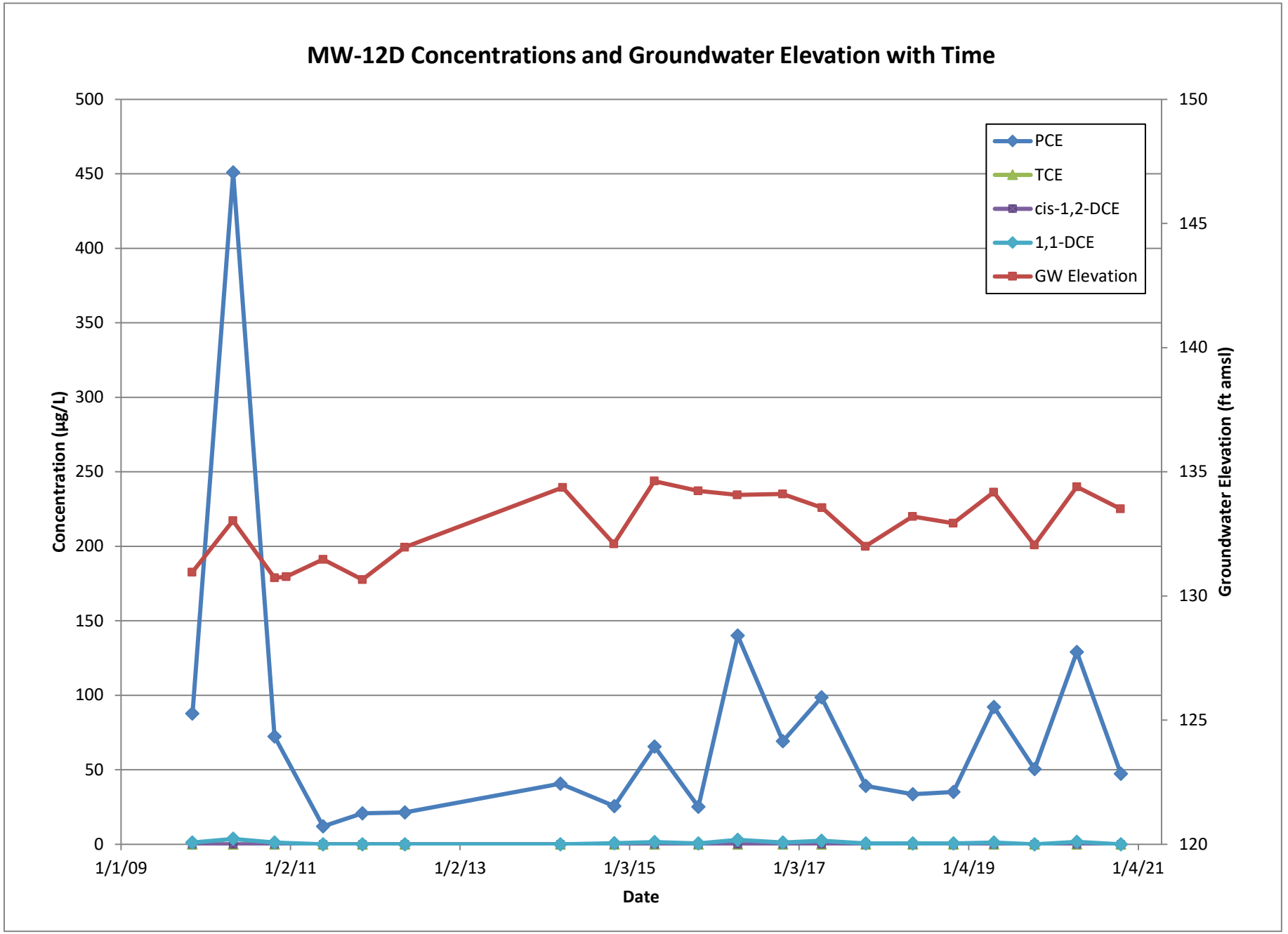

MW-3D Concentrations and Groundwater Elevation with Time
800
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
Concentration (µg/L)
Groundwater Elevation (ft amsl)
1/1/07
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

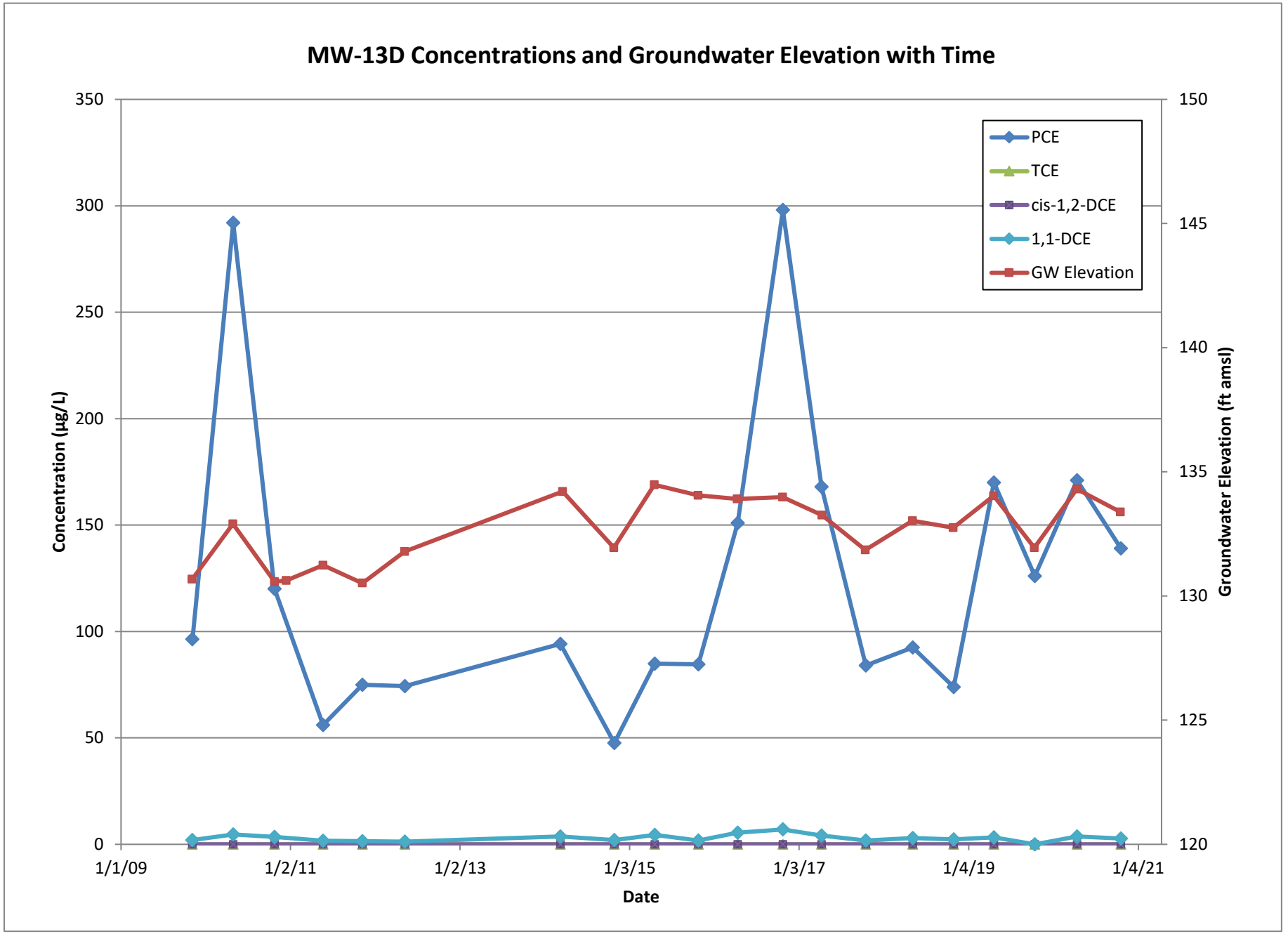

MW-5 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

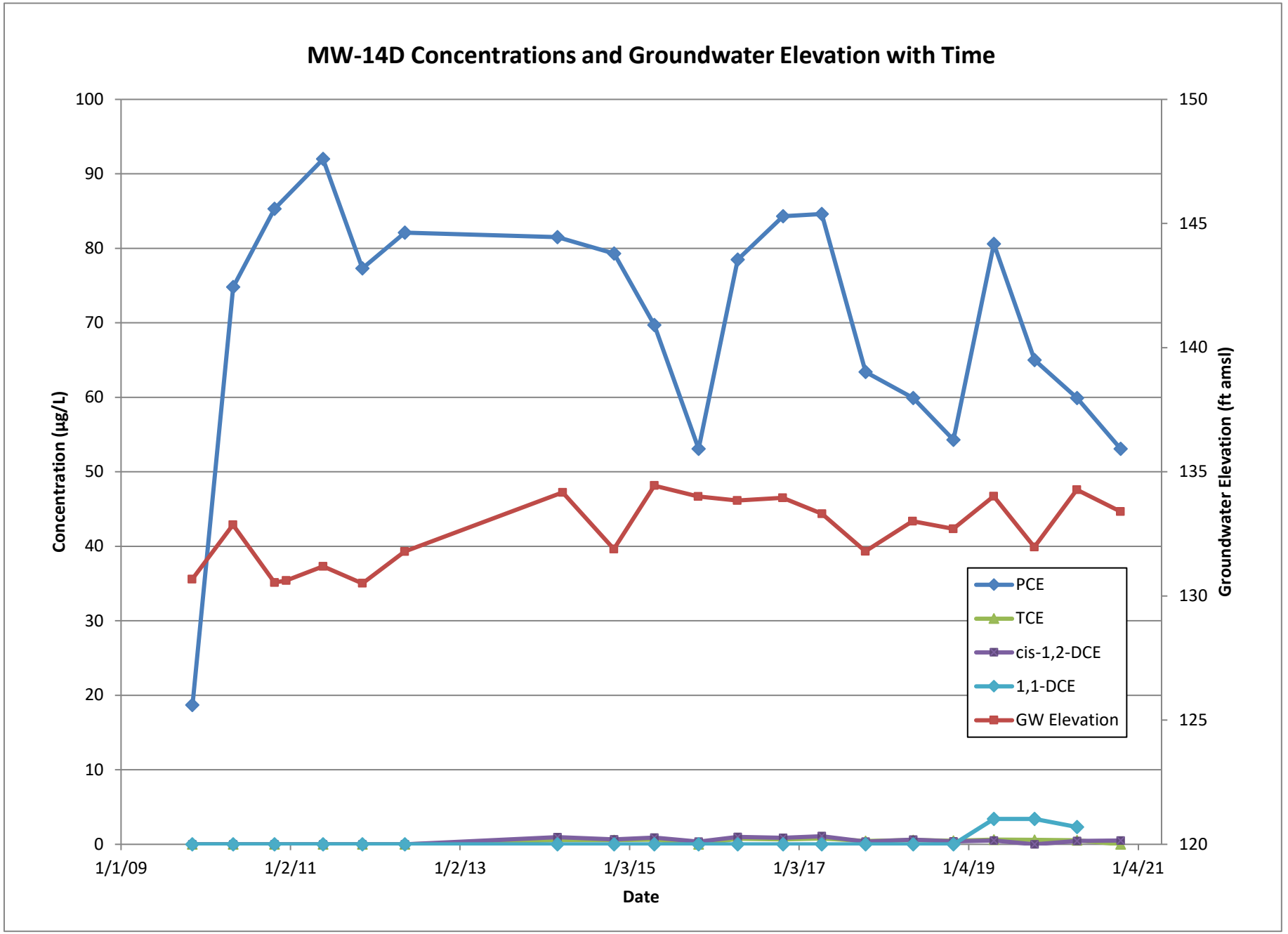

MW-8 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

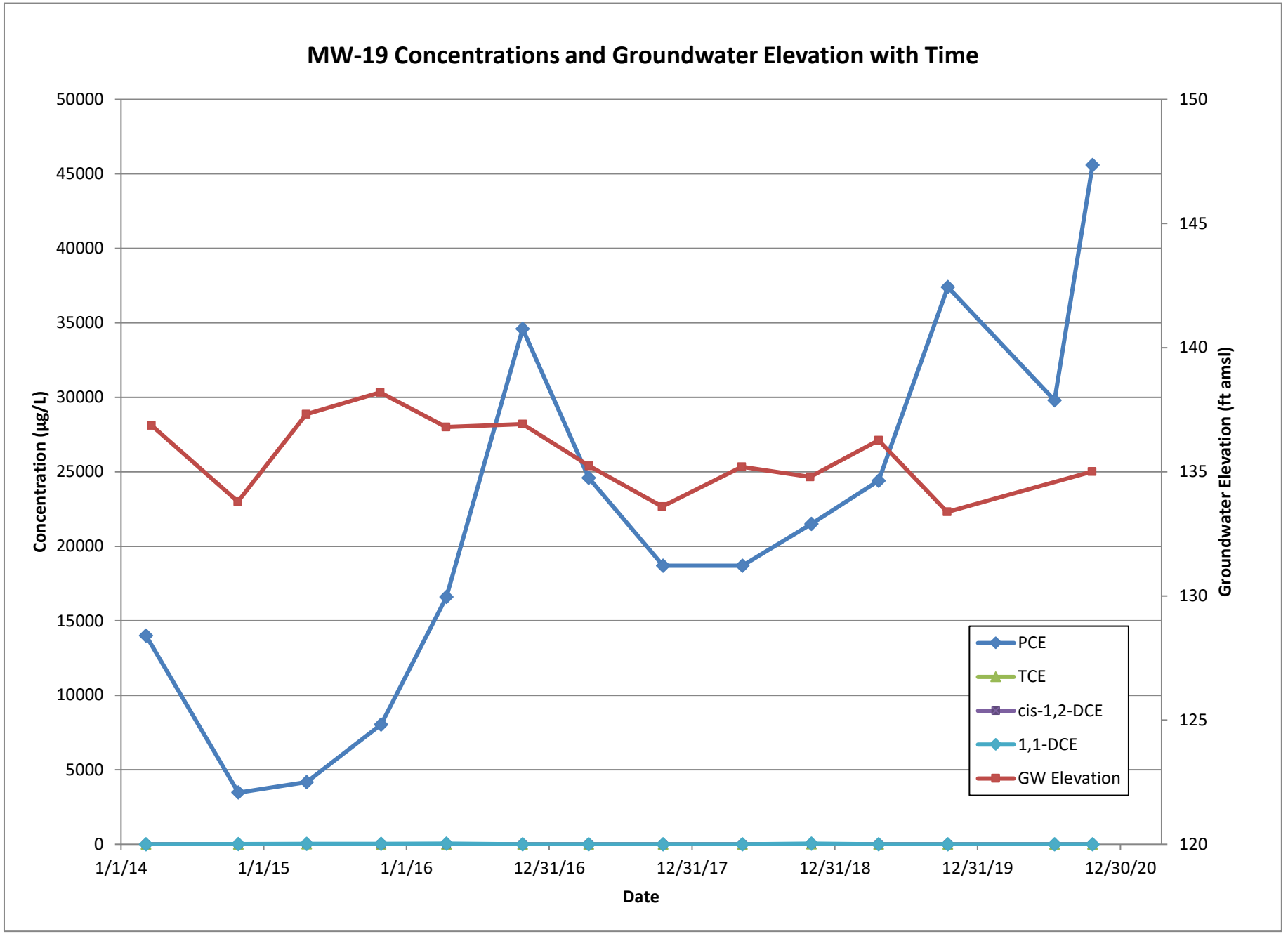

MW-9 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
8000
7000
6000
5000
4000
3000
2000
1000
0
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

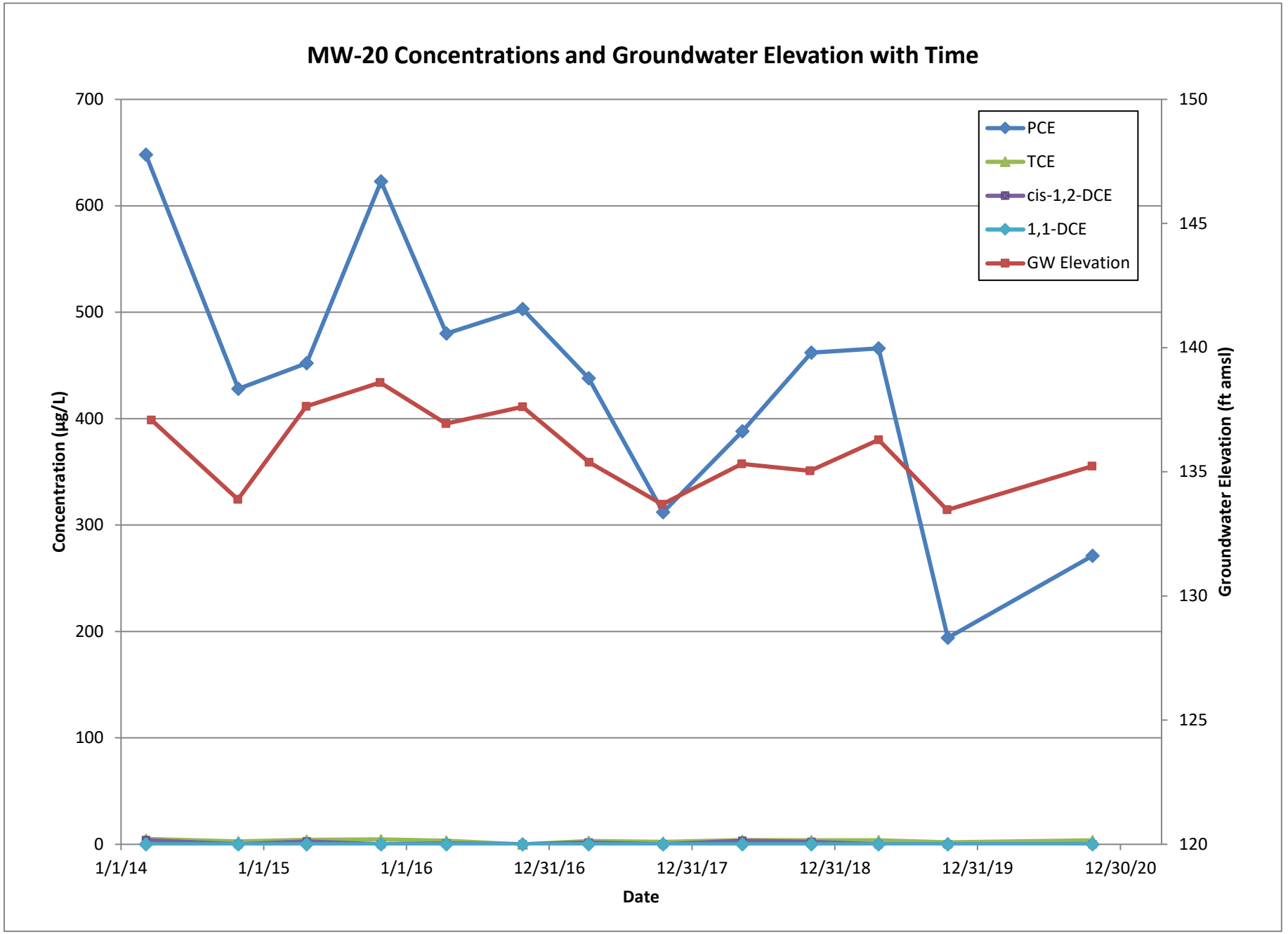

MW-10 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
6000
5000
4000
3000
2000
1000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

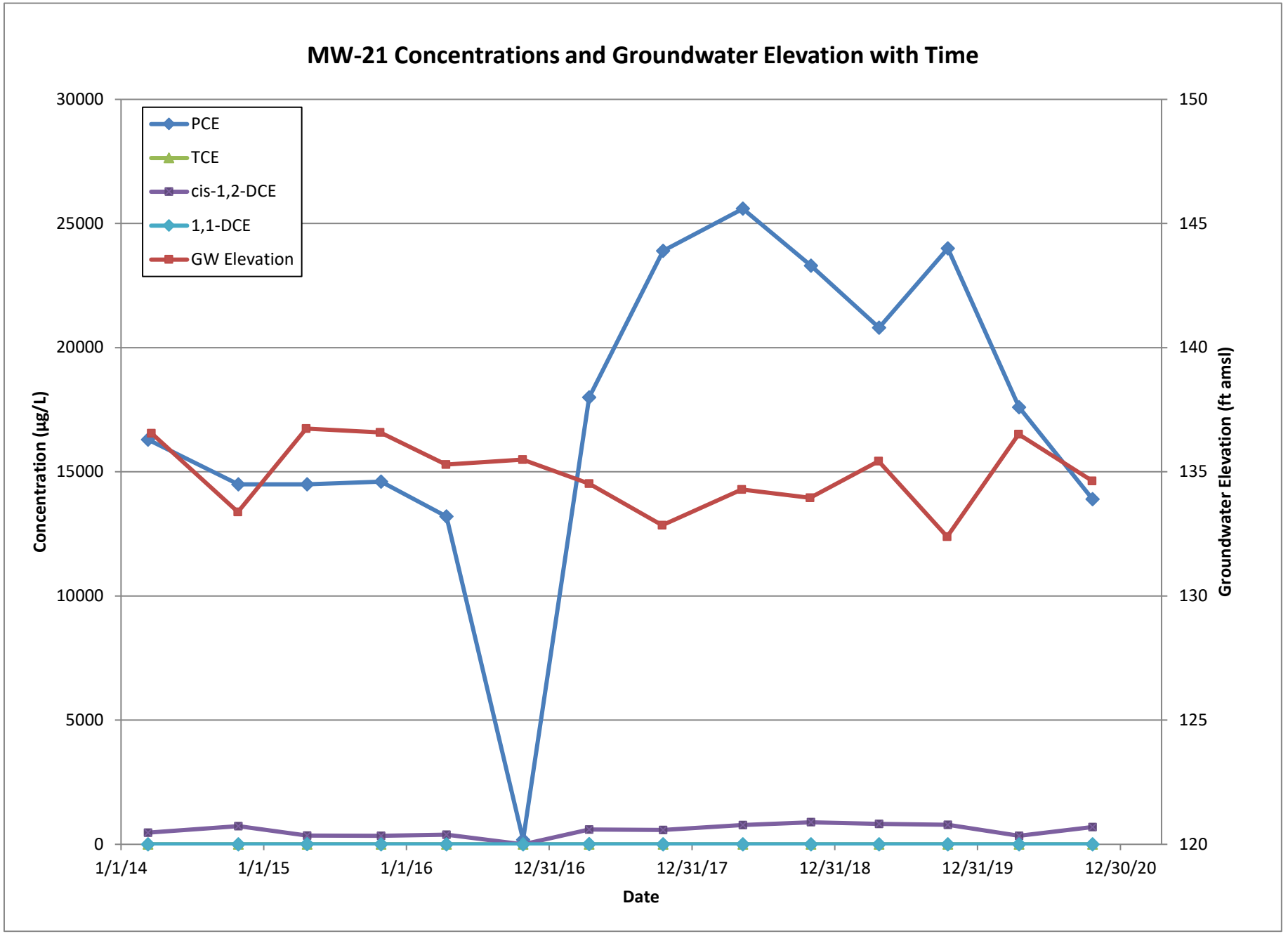

MW-12D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21

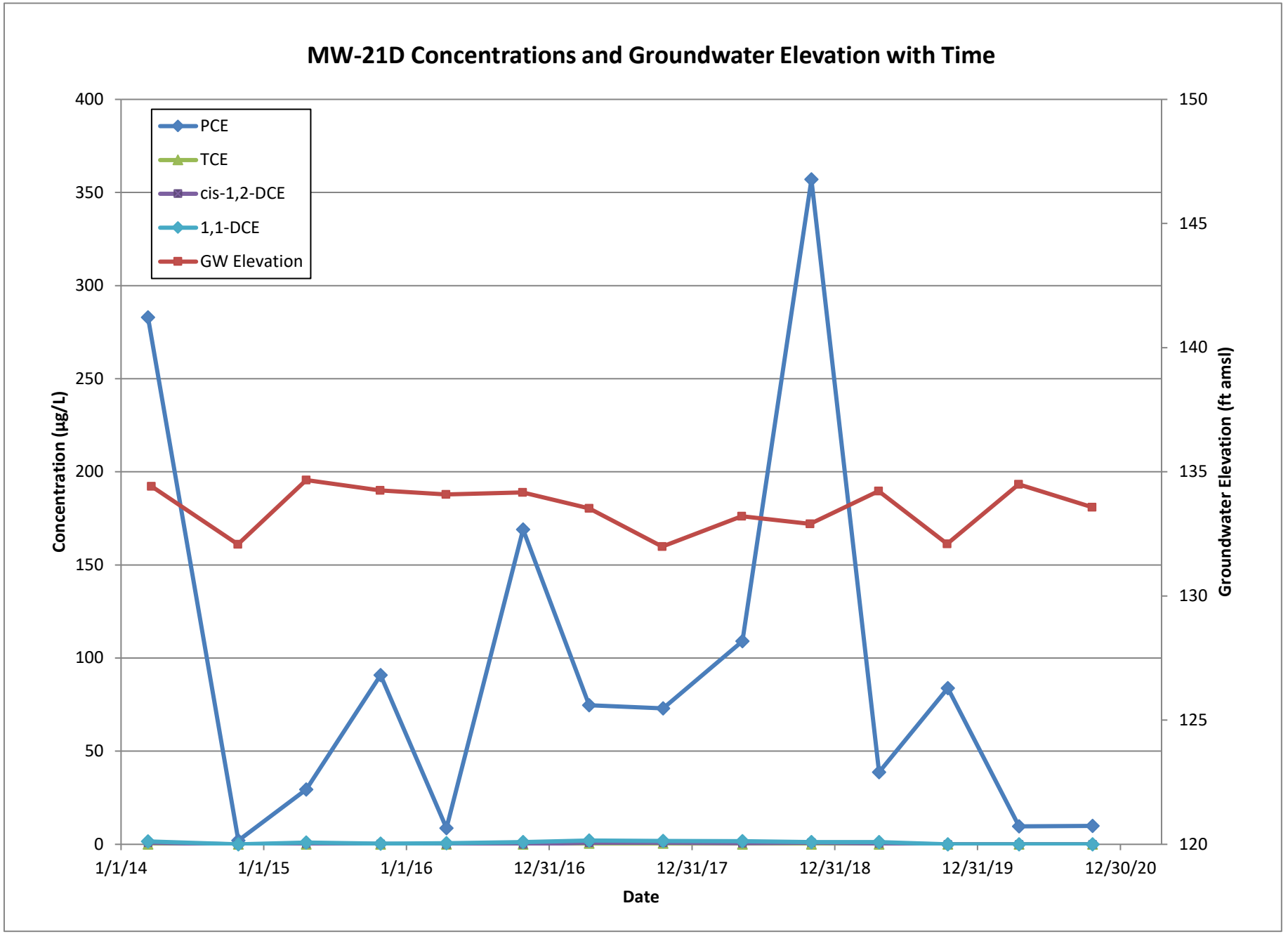

MW-13D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21

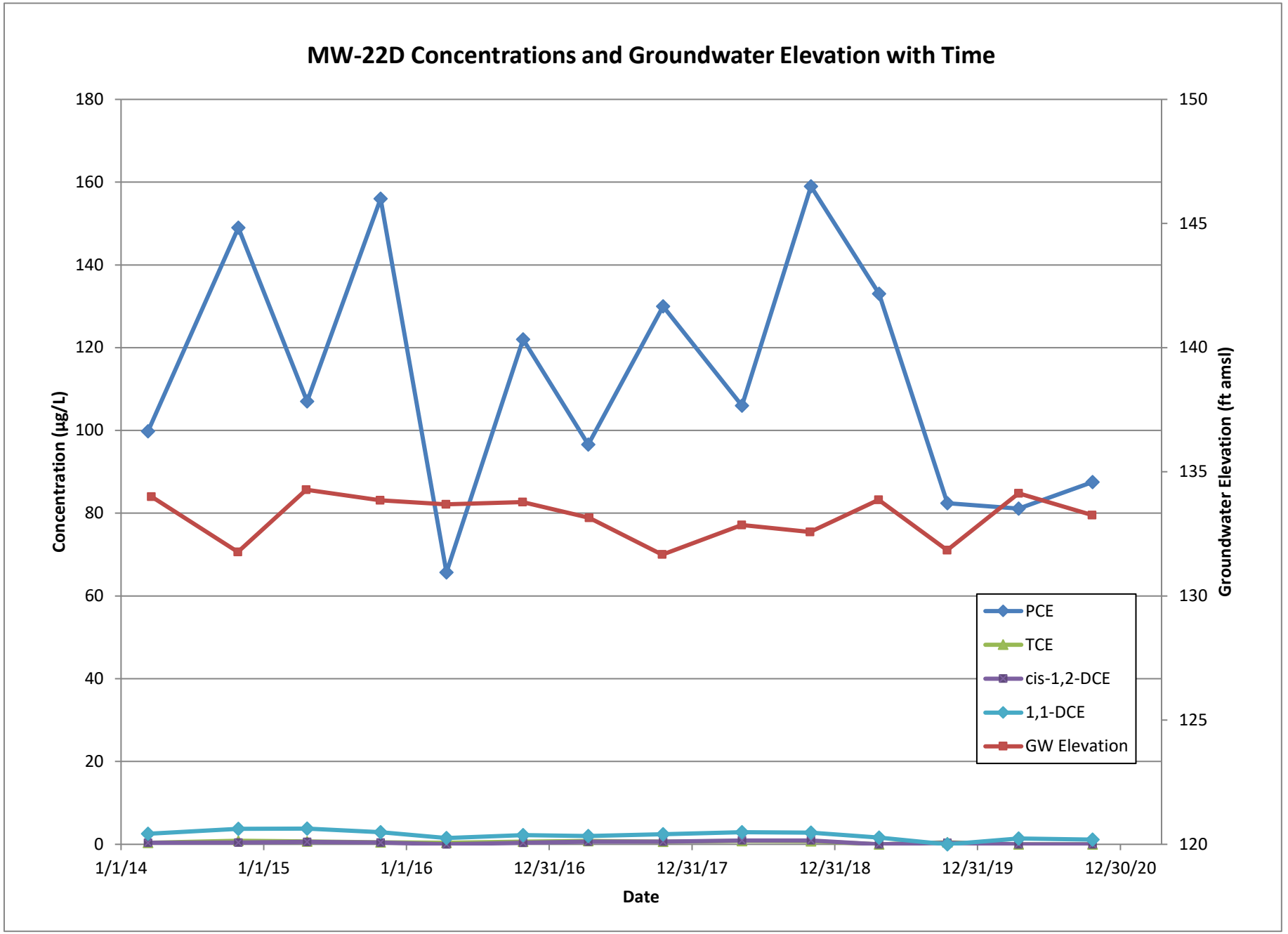

MW-14D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
100
90
80
70
60
50
40
30
20
10
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

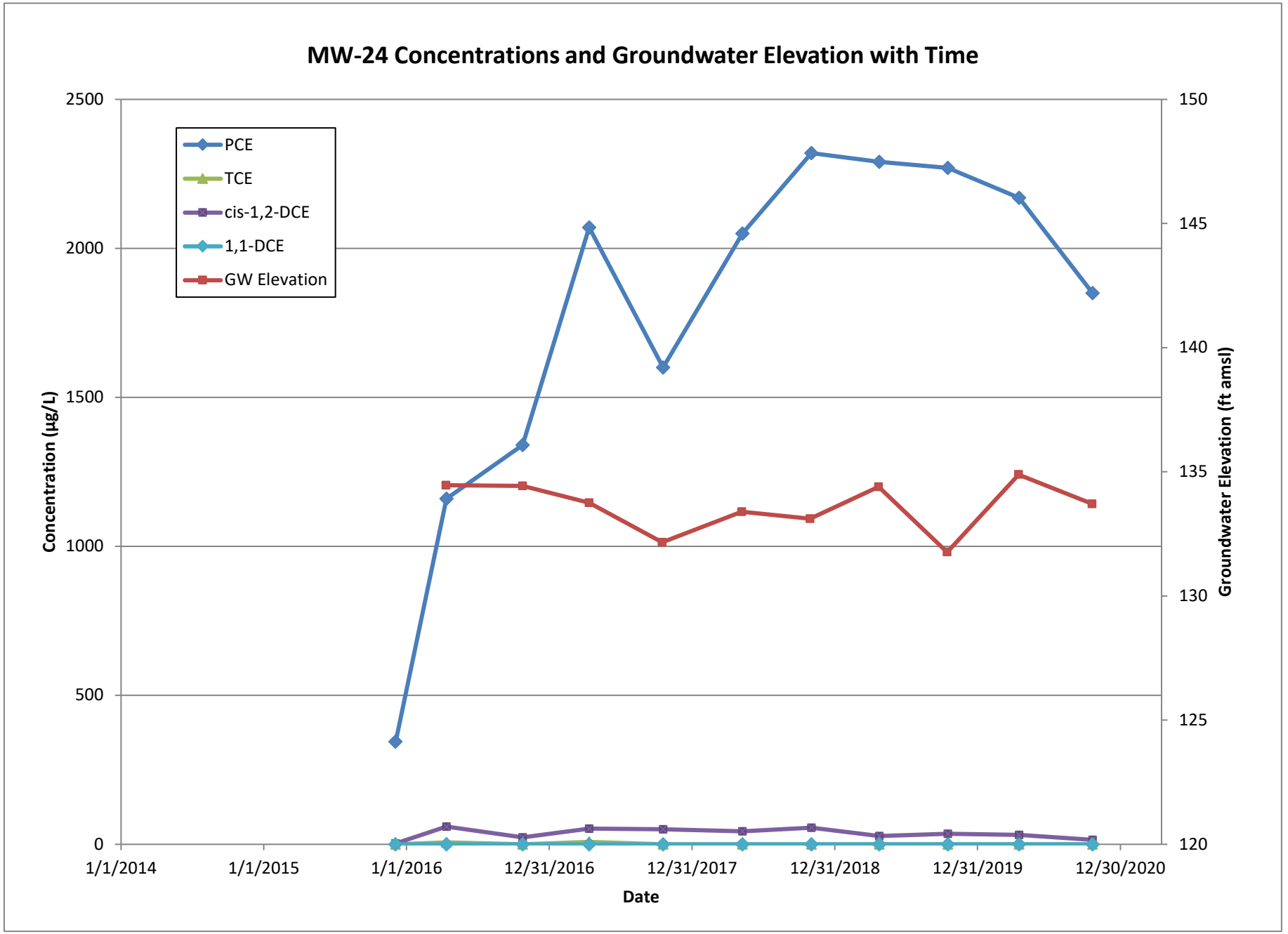

MW-19 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

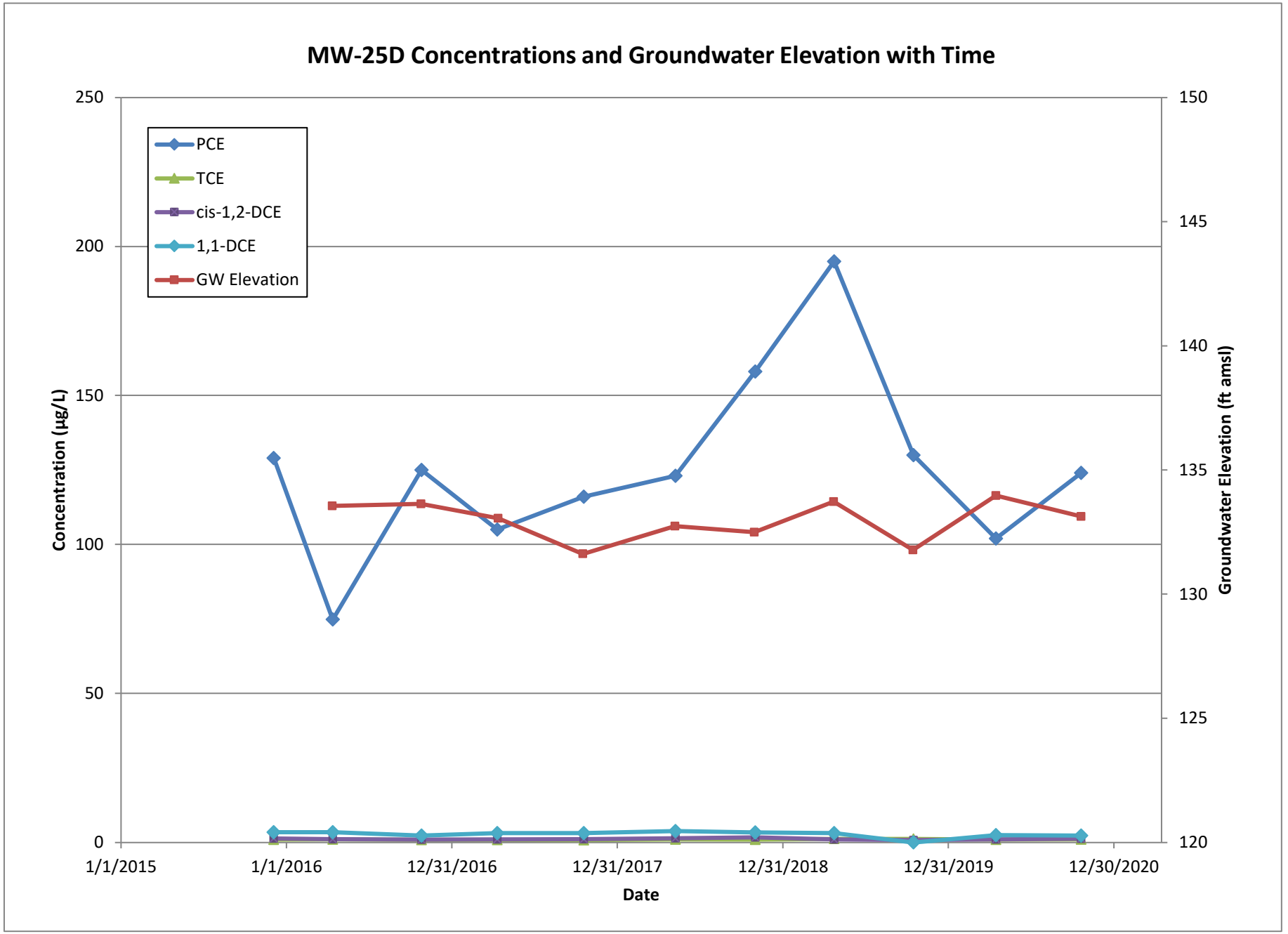

MW-20 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20

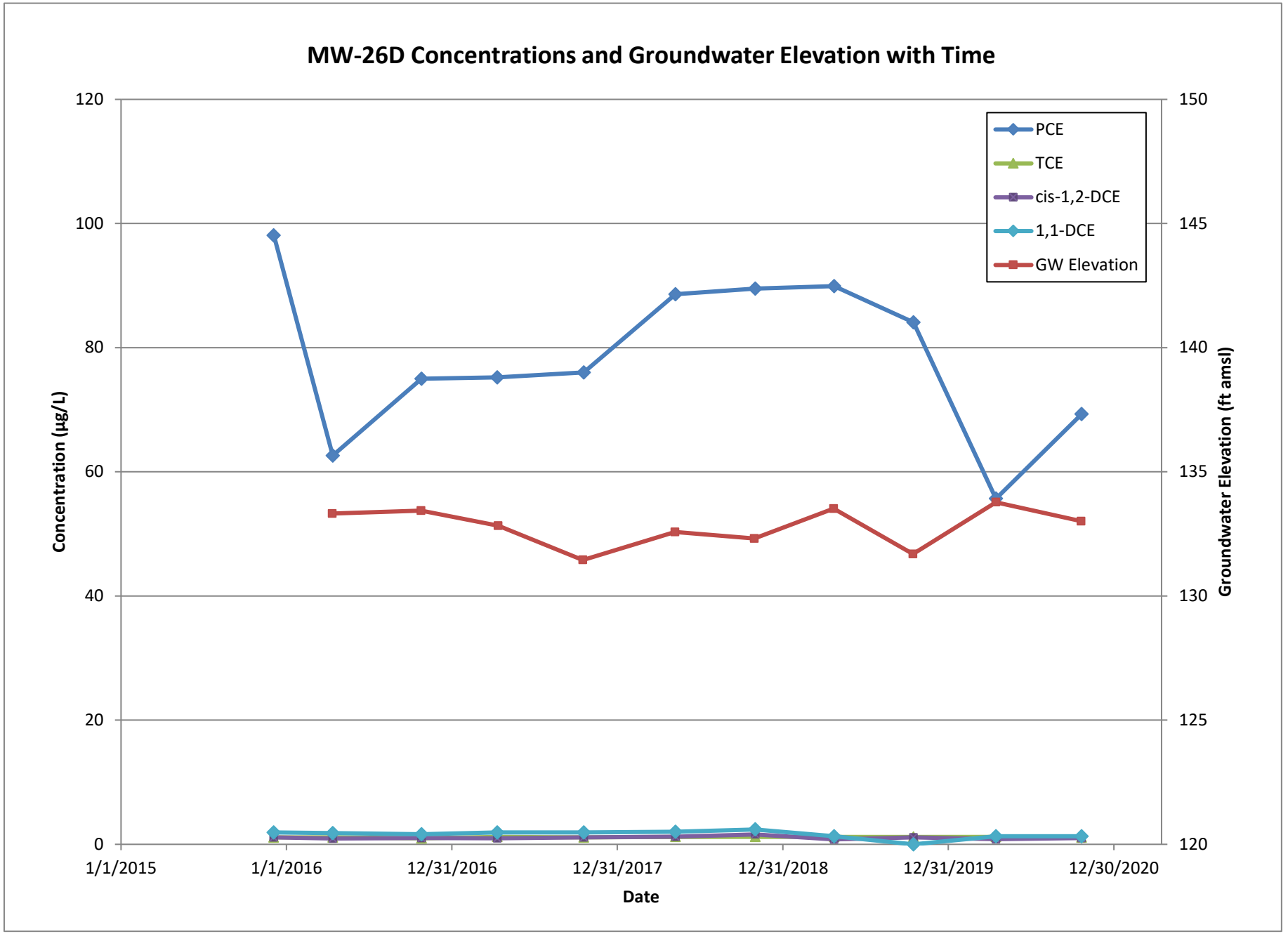

MW-21 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20

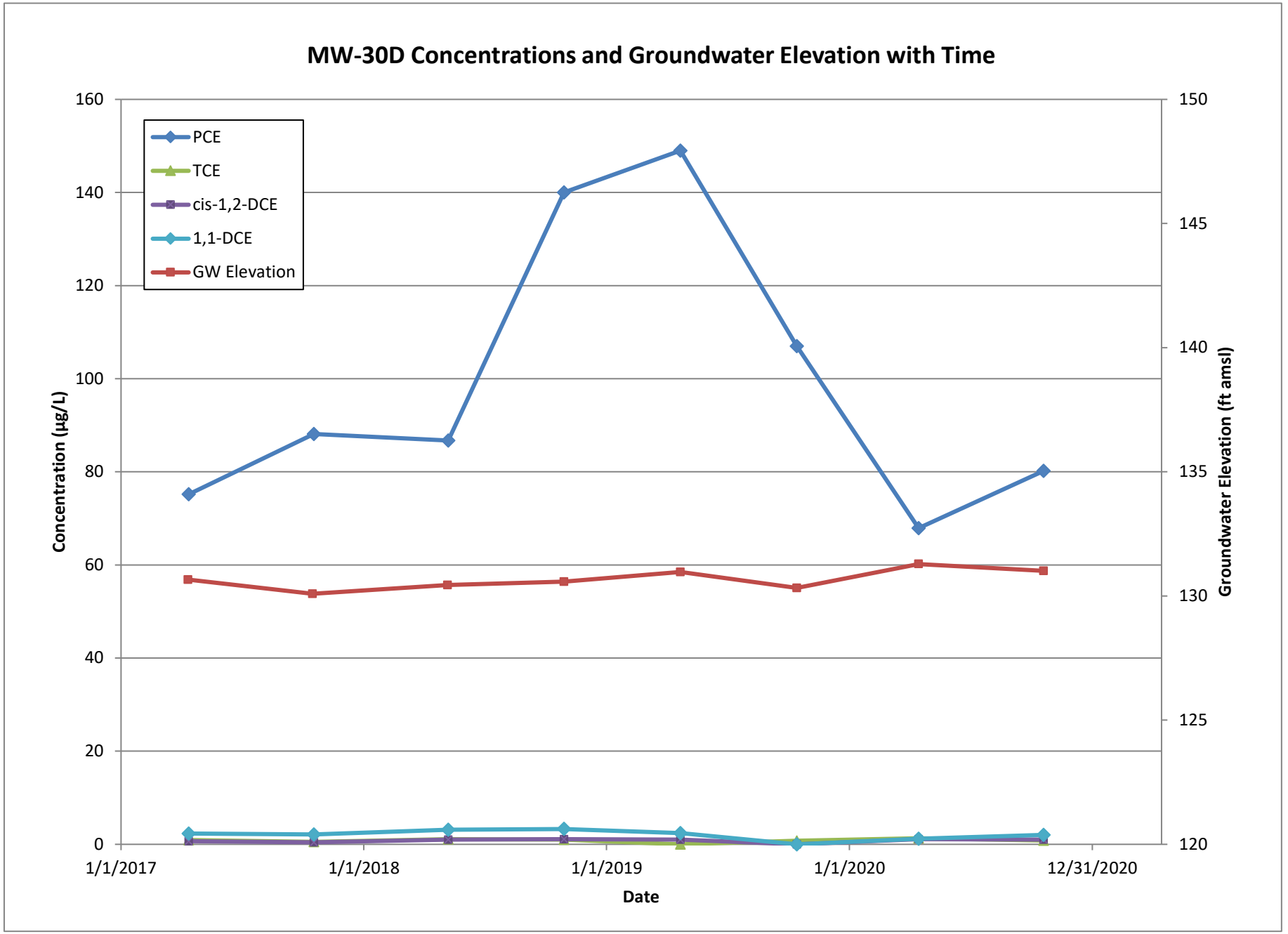

MW-21D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20

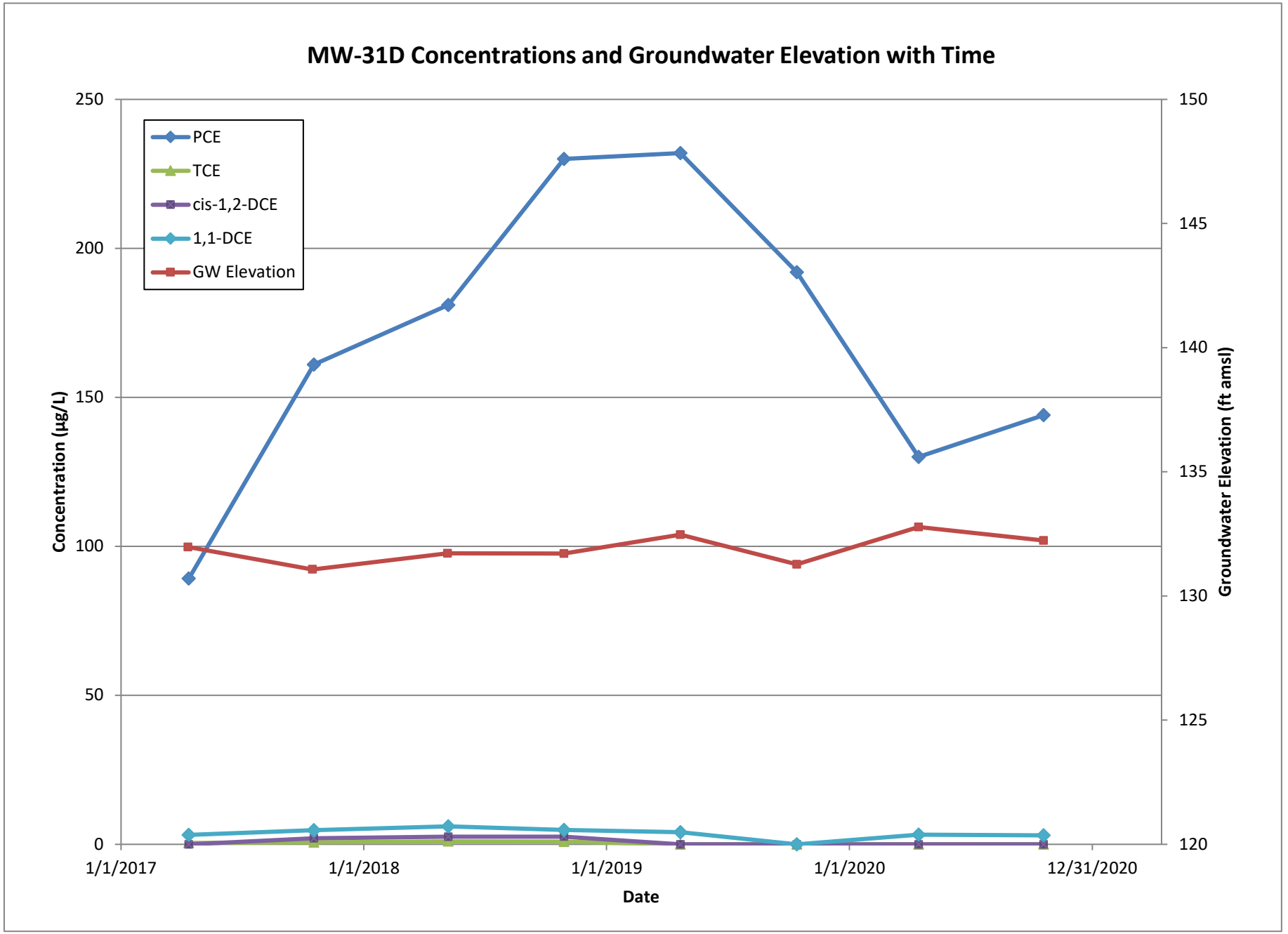

MW-22D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
180
160
140
120
100
80
60
40
20
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

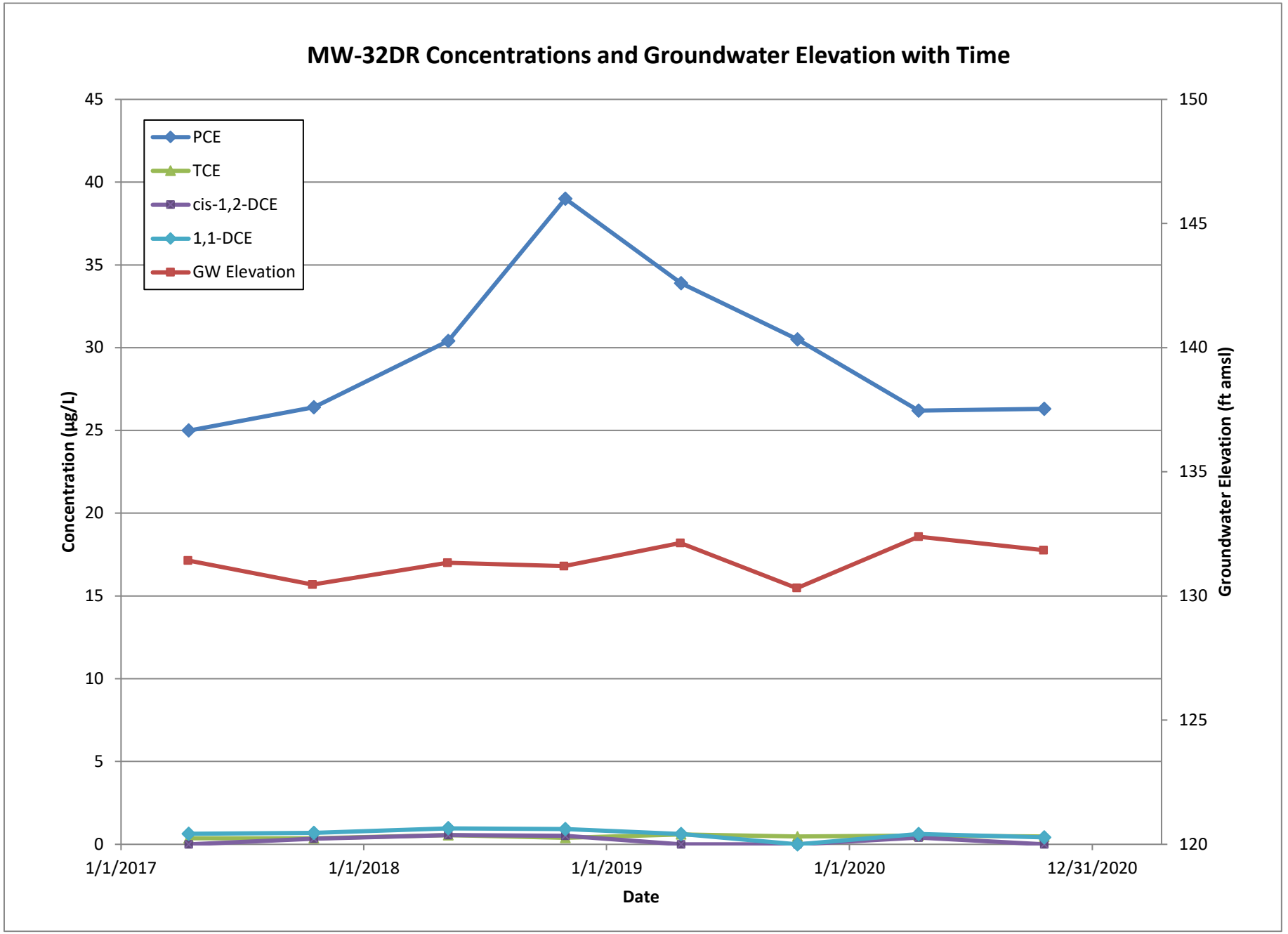

MW-24 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
2500
2000
1500
1000
500
0
150
145
140
135
130
125
120
1/1/2014
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020


MW-25D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020


MW-26D Concentrations and Groundwater Elevation with Time
120
100
80
60
40
20
0
150
145
140
135
130
125
120
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
Date


MW-30D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
160
140
120
100
80
60
40
20
0
150
145
140
135
130
125
120
1/1/2017
1/1/2018
1/1/2019
1/1/2020
12/31/2020


MW-31D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/2017
1/1/2018
1/1/2019
1/1/2020
12/31/2020


MW-32DR Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
45
40
35
30
25
20
15
10
5
0
150
145
140
135
130
125
120
1/1/2017
1/1/2018
1/1/2019
1/1/2020
12/31/2020

APPENDIX F

MAROS STATISTICAL EVALUATION

APPENDIX F MAROS STATISITCAL EVALUATION

The existing body of data was evaluated using Monitoring and Remediation Optimization System (MAROS) software (Version 3.0, 2012) which is public domain software developed for the Air Force Civil Engineer Center (AFCEC) in accordance with the Air Force Center for Environmental Excellence (AFCEE) Long Term Monitoring Optimization Guide (AFCEE, 1997). The program is database driven and can be used for both groundwater trend analysis and long-term monitoring optimization. Furthermore, MAROS is a recommended tool for monitoring well network evaluation and optimization cited in government agency guidance documents, including *Roadmap to Long-Term Monitoring Optimization* (USEPA, May 2005), and is included in the Federal Remediation Technologies Roundtable Decision Support Tool (http://www.frtr.gov/decisionsupport/FunctionalGroups/lt_monitoring_optimization.htm).

For the purpose of this evaluation, MAROS was used to statistically evaluate the trend in concentrations of tetrachloroethylene (PCE) at individual monitoring wells and the stability of the PCE plume in each aquifer unit. PCE trend and plume stability data were then used by program to calculate a recommended sampling frequency for each well. MAROS analyses were performed for the shallow aquifer and the deep (limestone) aquifer independently. MAROS input parameters are summarized in **Tables F-1 and F-2** for the shallow and deep aquifers, respectively.

A general description of the analysis methods is provided below. Readers are directed to the MAROS website and literature for additional details (AFCEC, 2012).

1.0 INDIVIDUAL WELL TREND ANALYSES

MAROS performs the temporal trend analysis using two methods, the Mann-Kendall test and linear regression. Both or either of these results can be used depending upon how well the data set fits the method. The Mann-Kendall test is a non-parametric statistical procedure appropriate for analyzing data sets with any statistical distribution (e.g., normal, lognormal, etc.). Linear regression is a parametric statistical procedure which assumes a normal distribution. To use these statistical methods, MAROS requires a minimum of four discrete sampling results for each constituent of concern (COC) at each monitoring well to assess temporal trends; wells with less than four data points give a result of N/A – not applicable (insufficient data). Typically, the confidence in the model results will increase as the number of discrete sampling events increases. Trend analyses using both Mann-Kendall and linear regression provide an indication of stability at a particular monitoring well location.

For the individual well analyses, all of the existing groundwater monitoring data collected between March 2014 and October 2020 were used to evaluate the trends in PCE at each monitoring well location. Once the data were input, MAROS produced a result for each trend analysis method (i.e., Mann-Kendall or linear regression) based on the statistical distribution of the data, the goodness of fit between the trend and individual data points, and calculated statistical parameters (i.e., the Mann-Kendall statistic or the slope of the linear regression line). Because the methodology for assigning results is built into the program and is based on the fit of the data to the trend and the value of calculated statistical parameters, the resulting assessment of the trend data is unbiased and quantitative.

The result of the MAROS trend analysis is a 1 to 2 letter abbreviation describing the trend for each COC and each well. These abbreviations and their meanings are shown below:

D – decreasing	PI – probably increasing
PD - probably decreasing	I – increasing
S – stable	N/A – not applicable (insufficient data)
NT – no trend	ND – non-detect (all results are ND or trace)

The summary statistics for the analytical data input for each aquifer are included as **Table F-3 and F-4** for the shallow and deep aquifers, respectively. MAROS Mann-Kendall and linear regression trend results for PCE are discussed for each aquifer in **Sections 1.1 and 1.2** below.

1.1 Shallow Aquifer

MAROS trend results for PCE in the shallow aquifer are presented in **Table F-5**. Statistics and graphs are presented in **Attachment F-1** for linear regression and **Attachment F-2** for Mann-Kendall. PCE results are below the detection limit for monitoring wells MW-6 and MW-11 on-site as well as for downgradient, off-site monitoring wells MW-15, MW-16, MW-17, and MW-18. Data from select monitoring wells adjacent to or downgradient of former source areas (e.g., MW-2, MW-3, MW-8, MW-10, MW-19, and MW-24) resulted in I or PI trends. PD and D trends are indicated for select on-site monitoring wells that have decreased from previous high values (e.g., MW-1, MW-5, MW-9, and MW-20) and for off-site, downgradient monitoring wells that had low detections early in their monitoring history but are now below the detection limit (e.g., MW-27 and MW-29). No trend (NT) was determined for monitoring well MW-4, which has had one recent, trace detection in a history of non-detect values, and monitoring well MW-21, which has had variable PCE concentrations throughout its monitoring history.

1.2 Deep Aquifer

MAROS trend results for PCE in the deep aquifer are presented in **Table F-6**. Statistics and graphs are presented in **Attachment F-1** for linear regression and **Attachment F-2** for Mann-Kendall. PCE results are below the detection limit for monitoring well MW-9D on-site as well as for downgradient monitoring wells MW-15D, MW-16D, MW-23D, MW-33D, MW-34D, and MW-35D. Data from monitoring well MW-10D, where recent trace concentration of PCE have been detected after a longer history of results below he detection limit, resulted in an I trend. Monitoring well MW-14D, where PCE concentrations have varied some over the monitoring history, has an overall D trend. Monitoring wells were detected PCE concentrations have been fairly consistent (e.g., MW-22D, MW-26D and MW-30D) resulted in S trends. No trend (NT) was determined for monitoring wells MW-12D, MW-21D, MW-25D, MW-31D, and MW-32DR, which have had variable PCE concentrations throughout their monitoring history.

2.0 SPATIAL MOMENT ANALYSES

The spatial moment analysis helps assess the stability of a groundwater plume based on scientifically sound quantitative analyses of current and historical site groundwater conditions. Spatial analyses were conducted using data from monitoring wells located throughout the plume to assess plume stability in each

groundwater unit. The role of moment analysis in MAROS is to provide a relative measure of plume stability and condition. The zeroth moment is the sum of concentrations for all monitoring wells and is a mass estimate. The first moment estimates the center of mass coordinates for each sample event and COC. The changing center of mass locations indicate the movement of the center of mass of a COC over time. The second moment indicates the spread of the contaminant about the center of mass, or the distance of contamination from the center of mass for a particular COC and sample event. The second moment represents the spread of the plume over time in the x- and y-directions, with the x-axis representing its major migration direction.

Confirmation of the effective performance of remedial measures requires the demonstration of actual measurement of stable or shrinking plume conditions. The moment analyses assess plume-wide stability for groundwater plumes based on quantitative analyses of current and historical site groundwater conditions. The spatial moment analyses were performed individually on the PCE plume in each aquifer unit. The same network of wells was used to calculate each spatial moment in each aquifer unit so that results were not skewed by changes in the well network. For wells that were installed later in the monitoring history, the first PCE concentration was used for early events before the well was installed. For isolated missed sampling events, the concentrations from the adjacent events were averaged to provide a PCE concentration for the missing event. Furthermore, in order to remove the effects of any seasonal variation, the data were consolidated on an annual basis using the average of PCE results for a given well.

Details for the moment analyses are presented in **Attachment F-3**. The results of the moment analyses are summarized in **Table F-7** for the shallow aquifer and in **Table F-8** for the deep aquifer.

2.1 Zeroth Moment

The zeroth moment is the sum of concentrations for all monitoring wells and is an estimate of dissolved mass.

Shallow Aquifer

Based on an average aquifer thickness of 19.57 ft and a porosity of 0.20 for the shallow aquifer, the estimated dissolved mass (in kilograms [kg]) for each sampling event for PCE was calculated in MAROS. The estimated mass in the shallow aquifer PCE plume ranged from 6.9 kg to 10 kg between 2014 and 2020 (**Table F-7**). Although the Mann Kendall statistic, S, indicates an increasing trend (i.e., S > 0), the zeroth moment for the shallow aquifer was assigned an NT trend because the confidence in the trend was less than 90% (**Attachment F-3**).

Deep Aquifer

Based on an average aquifer thickness of 50 ft and a porosity of 0.25 for the deep aquifer, the estimated dissolved mass (in kg) for each sampling event for PCE was calculated in MAROS. The estimated mass in the deep aquifer PCE plume ranged from 63 kg to 89 kg between 2014 and 2020 (**Table F-8**). Although the Mann Kendall statistic, S, indicates an increasing trend (I.e., S > 0), the zeroth moment for the shallow aquifer was assigned an NT trend because the confidence in the trend was less than 90% (**Attachment F-3**).

2.2 First Moment

The first moment estimates the center of mass of each COC plume for each sampling event. The changing center of mass location indicates the movement of the center of mass over time in relation to the original source location. The first moment trend of the distance to the center of mass over time is determined by using the Mann-Kendall trend methodology.

Shallow Aquifer

The center of mass in the X-direction of the shallow aquifer has a variability of 85 feet over the seven years between 2014 and 2020. For the Y-direction, the center of mass in the shallow aquifer varies within a 35-foot range over the sampling period. The resulting distances from the source range from 11 feet to 57 feet. The first moment analysis for this data results in an S trend (**Table F-7, Attachment F-3**).

Deep Aquifer

For the deep aquifer, the center of mass in the X-direction has a variability of 74 feet over the seven years between 2014 and 2020. For the Y-direction, the center of mass in the deep aquifer has a wider range, 286 feet over the sampling period. The resulting distances from the source range from 1,623 feet to 1,911 feet. The first moment analysis for deep aquifer results in an I trend (**Table F-8, Attachment F-3**).

2.3 Second Moment

The second moment indicates the spread of the plume about the center of mass over time (spread of the plume over time in both the x- and y-directions). The second moment trend is determined by using the Mann-Kendall trend methodology.

Shallow Aquifer

The plume spread in the primary flow direction (denoted by Sigma XX in the second moment analysis) in the shallow aquifer ranges from 11,982 square feet (sq ft) to 16,731 sq ft between 2014 and 2020. In the direction perpendicular to the primary flow direction (denoted by Sigma YY), The plume spread ranges from 7,076 sq ft to 10,502 sq ft in the shallow aquifer. The MAROS trend for the second moment in both directions is S.

Deep Aquifer

The plume spread in the primary flow direction (denoted by Sigma XX) in the deep aquifer ranges from 108,040 sq ft to 189,515 sq ft between 2014 and 2020, resulting in an NT trend for the second moment in the primary flow direction. In the direction perpendicular to the primary flow direction (denoted by Sigma YY), the plume spread ranges from 446,165 sq ft to 718,667 sq ft in the deep aquifer. The MAROS trend for the second moment in Y-direction is PI.

3.0 SAMPLING FREQUENCY OPTIMIZATION

MAROS uses Cost Effective Sampling (CES) methodology to provide recommendations for sampling frequency of wells. CES was developed to “estimate the lowest frequency sampling schedule for a given groundwater monitoring location providing stakeholders the needed information for regulatory and remedial decision making” (AFCEC, 2012). The CES methodology is based on trend statistics, such as those

presented in **Sections 1.0 and 2.0** above, as well as information on the magnitude and variability on concentrations. The guiding principle for the CES method is that sampling frequency should be based on the rate of change of COCs at a location rather than the well's location within the network.

The CES methodology employed by MAROS has three major steps, which are described below. The reader is directed to the MAROS manual (AFCEC, 2012) for additional details on the methodology.

1. Set a frequency based on the "recent" trends by comparing the rate of change for each well (i.e., the slope of the linear regression line) to a high rate, medium rate, and low rate (in milligrams per liter per year [mg/L/yr]) defined by the MAROS user. Wells with high rate of change are assigned more frequent sampling and those with low rate of change are assigned less frequent sampling. Wells with insufficient data for trend analysis (less than four sample events) are also assigned high frequency sampling. For wells with more moderate rates of change, the concentration trend results from the Mann Kendall analysis are also evaluated to assign the monitoring frequencies. Assigned monitoring frequencies in this step are either quarterly, semi-annual, or annual.
   Then the frequency based on overall trends from each well are assigned using procedures similar to those used to assign frequencies for the "recent" trend data.
2. Adjust the frequency based on the comparison between the result of the "recent" trend and the result of the overall trend. If the recent and overall trends result in the same recommended sampling frequency, then the recent data frequency is used. If the results differ, result of the Mann-Kendall analyses discussed in Section 1.0 are evaluated along with the recommended frequencies based on recent and overall trends to determine if an adjustment to the recent frequency recommendation is warranted. In general, the recent frequency is adjusted one level up (less frequent) if the Mann-Kendal trend is D, PD or S and is not adjusted if the Mann-Kendall trend is I, PI, or NT.
3. Adjust the frequency based on a comparison between the maximum concentration in the sample period and the maximum contaminant level (MCL). If the maximum concentration during the sample period is less than one half of the MCL and the trend is not increasing, the sampling frequency is reduced by one level.

For the purposes of completing the sampling frequency optimization for the Delavan Site, recent trend data were considered to be in the period of October 2017 through October 2020. The default rates of change (low rate of 0.0025 mg/L/yr, medium rate of 0.005 mg/L/yr, and high rate of 0.01 mg/L/yr) were used for the Delavan analyses. The recommended sampling frequencies for the shallow aquifer and deep aquifer are summarized in **Tables F-9 and F-10**, respectively.

4.0 REFERENCES

AFCEC, 2012. Monitoring and Remediation Optimization System (MAROS) Software, User's Guide and Technical Manual. September. https://www.gsi-net.com/en/software/free-software/monitoring-and-remediation-optimization-systems-maros-version-3-0.html.

AFCEE, 1997. AFCEE Long-Term Monitoring Optimization Guide Version 1.1. Brooks AFB, Brooks City, TX, Air Force Center for Environmental Excellence

USEPA, 2005. Roadmap to Long-Term Monitoring Optimization. May. https://www.epa.gov/sites/production/files/2015-08/documents/roadmap_ltmo_542-r-05-003.pdf

TABLES

Table F-1
MAROS Input Parameters
Delavan Spray Technologies Site - Shallow Aquifer
Bamberg, South Carolina

Project Name:		
Delavan Spray Technology Site - Shallow Aquifer		
Hydrogeology and Plume Information		
Seepage Velocity (ft/year)	2.48	
Current Plume Width (ft) from Oct 2020	770	
Current Plume Length (ft) from October 2020	910	
Maximum Plume Length (ft) - from October 2020	910	
GW Fluctuations (Yes or No)	Yes	
Main Constituents	VOCs	
Groundwater Flow Direction	W	
Soil Porosity	0.20	
Uniform Saturated Thickness (ft)	19.57	
Approximate Location of Center of Source	X: 1985777.8149	Y: 527456.1801
Source Information		
Free-Phase NAPL Present (Yes or No)	No	
Current Source Treatment	None	
Down-gradient Information (in feet)		
Distance from Source to Nearest Downgradient Receptor	1200	
Distance from Source to Nearest Downgradient Property Line	480	
Distance from Edge of Tail to Nearest Downgradient Receptor	750	
Distance from Edge of Tail to Nearest Downgradient Property Line	0	

Seepage Velocity, q

$$q = \frac{K \cdot Gradient}{porosity}$$

0.004 average gradient (ft/ft)
0.352 average K (ft/day)
0.007 q, ft/day
2.48 q, ft/year

K values (ft/day)
0.350 Post RI Slug tests
0.355 GW Delineation Slug tests

0.352 Geometric mean

Notes:
Red text are calculation cells
yellow highlight needs to be filled in for auto calculations

Table F-2
MAROS Input Parameters
Delavan Spray Technologies Site - Limestone Aquifer
Bamberg, South Carolina

Project Name:		
Delavan Spray Technology Site - Deep (Limestone) Aquifer		
Hydrogeology and Plume Information		
Seepage Velocity (ft/yr)	64.23	
Current Plume Width (ft)	2000	
Current Plume Length (ft)	4000	
Maximum Plume Length (ft)	4000	
GW Fluctuations (Yes or No)	N	
Main Constituents	cVOCs	
Groundwater Flow Direction	S	
Soil Porosity	0.25	
Uniform Saturated Thickness (ft)	50	
Approximate Location of Center of Source	X: 1985871.6027	Y: 527235.3484
Source Information		
Free-Phase NAPL Present (Yes or No)	No	
Current Source Treatment	None	
Down-gradient Information (in feet)		
Distance from Source to Nearest Downgradient Receptor	4667	
Distance from Source to Nearest Downgradient Property Line	389	
Distance from Edge of Tail to Nearest Downgradient Receptor	778	
Distance from Edge of Tail to Nearest Downgradient Property Line	0	

Seepage Velocity, q

$$q = \frac{K \cdot Gradient}{porosity}$$

0.0007 average gradient (ft/ft)
63.81 average K (ft/day)
0.176 ft/day
64.23 ft/year

K values

47.80 Post RI Slug tests
63.52 GW Delineation Slug tests
85.57 Deep GW Delineation Slug Tests

63.81 Geometric mean

Red text are calculation cells
yellow highlight needs to be filled in for auto calculations

Table F-3 – Summary Statistics – Shallow Aquifer

Summary Statistics Table 1

Air Force Center for Engineering and the Environment

MAIN MENU > INDIVIDUAL WELL ANALYSIS MENU > SUMMARY STATISTICS TABLE 1

Below are preliminary summary statistics for each location.

AAA -AAA
TEXT SIZE

Well Name	Min Sample Date	Max Sample Date	Number of Samples	Number of Detects	Percent Detection	Maximum Result for Data Range	Max Resu Above Standard
MW-1	3/10/2014	10/20/2020	14	14	100%	1.28E+00	YES
MW-10	3/10/2014	10/20/2020	14	14	100%	1.55E+00	YES
MW-11	3/10/2014	10/20/2020	14	0	0%	2.20E-04	NO
MW-14	3/10/2014	10/20/2020	14	9	64%	1.90E-03	NO
MW-15	3/10/2014	10/20/2020	14	0	0%	2.20E-04	NO
MW-16	3/10/2014	10/20/2020	14	0	0%	2.20E-04	NO
MW-17	3/10/2014	10/20/2020	14	0	0%	2.20E-04	NO
MW-18	3/10/2014	10/20/2020	14	0	0%	2.20E-04	NO
MW-19	3/10/2014	10/20/2020	14	14	100%	4.56E+01	YES
MW-2	3/10/2014	10/20/2020	14	14	100%	3.10E-03	NO
MW-20	3/10/2014	10/20/2020	13	13	100%	6.48E-01	YES
MW-21	3/10/2014	10/20/2020	14	14	100%	2.56E+01	YES
MW-24	10/27/2015	10/20/2020	11	11	100%	2.32E+00	YES
MW-27	4/11/2017	10/20/2020	8	2	25%	1.00E-03	NO
MW-28	4/11/2017	10/20/2020	8	1	12%	2.40E-04	NO
MW-29	4/11/2017	10/20/2020	8	2	25%	5.40E-03	YES
MW-3	3/10/2014	10/20/2020	14	14	100%	1.99E-01	YES
MW-37	4/15/2020	10/20/2020	2	2	100%	2.47E+01	YES
MW-4	3/10/2014	10/20/2020	14	1	7%	2.80E-04	NO
MW-5	3/10/2014	10/20/2020	14	14	100%	7.43E-02	YES
MW-6	3/10/2014	10/20/2020	14	0	0%	2.20E-04	NO
MW-7	3/10/2014	10/20/2020	14	2	14%	1.40E-03	NO
MW-8	3/10/2014	10/20/2020	14	14	100%	3.55E-01	YES
MW-9	3/10/2014	10/20/2020	14	14	100%	2.24E+00	YES

ND = Not detected; Values in Green show non-detect wells

DATA SHEET

Table F-4 – Summary Statistics – Deep Aquifer

Summary Statistics Table 1

Air Force Center for Engineering and the Environment
MAROS Version 3.0

MAIN MENU > INDIVIDUAL WELL ANALYSIS MENU > SUMMARY STATISTICS TABLE 1

Below are preliminary summary statistics for each location.

AAA -AAA
TEXT SIZE

Well Name	Min Sample Date	Max Sample Date	Number of Samples	Number of Detects	Percent Detection	Maximum Result for Data Range	Max Resu Above Standard
MW-10D	7/1/2014	7/1/2020	14	4	29%	4.00E-04	NO
MW-12D	7/1/2014	7/1/2020	14	14	100%	1.05E-01	YES
MW-13D	7/1/2014	7/1/2020	14	14	100%	2.25E-01	YES
MW-14D	7/1/2014	7/1/2020	14	14	100%	8.14E-02	YES
MW-15D	7/1/2014	7/1/2020	14	0	0%	2.20E-04	NO
MW-16D	7/1/2014	7/1/2020	14	0	0%	2.20E-04	NO
MW-21D	7/1/2014	7/1/2020	14	14	100%	2.33E-01	YES
MW-22D	7/1/2014	7/1/2020	14	14	100%	1.33E-01	YES
MW-23D	7/1/2014	7/1/2020	12	0	0%	2.20E-04	NO
MW-25D	7/1/2015	7/1/2020	11	11	100%	1.63E-01	YES
MW-26D	7/1/2015	7/1/2020	11	11	100%	9.81E-02	YES
MW-3D	7/1/2014	7/1/2020	14	14	100%	3.66E-01	YES
MW-30D	7/1/2017	7/1/2020	8	8	100%	1.28E-01	YES
MW-31D	7/1/2017	7/1/2020	8	8	100%	2.12E-01	YES
MW-32DR	7/1/2017	7/1/2020	8	8	100%	3.47E-02	YES
MW-33D	7/1/2019	7/1/2020	3	0	0%	2.20E-04	NO
MW-34D	7/1/2019	7/1/2020	3	0	0%	2.20E-04	NO
MW-35D	7/1/2019	7/1/2020	3	0	0%	2.20E-04	NO
MW-36D	7/1/2019	7/1/2020	3	1	33%	3.70E-04	NO
MW-9D	7/1/2014	7/1/2020	13	0	0%	2.20E-04	NO

ND = Not detected; Values in Green show non-detect wells

DATA SHEET

Table F-5

MAROS Statistical Trend Analysis Summary

Project: Delavan Spray Technologies - Shallow Aquifer **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value

Well	Source / Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
TETRACHLOROETHYLENE(PCE)								
MW-1	T	14	14	4.9E-01	4.3E-01	No	D	D
MW-10	T	14	14	2.4E-01	8.8E-02	No	PI	I
MW-11	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-14	T	14	9	7.1E-04	6.9E-04	No	NT	D
MW-15	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-16	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-17	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-18	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-19	S	14	14	2.2E+01	2.0E+01	No	I	I
MW-2	T	14	14	1.3E-03	1.3E-03	No	PI	PI
MW-20	S	13	13	4.4E-01	4.5E-01	No	D	D
MW-21	S	14	14	1.7E+01	1.7E+01	No	NT	NT
MW-24	T	11	11	1.8E+00	2.1E+00	No	I	I
MW-27	T	8	2	3.4E-04	2.2E-04	No	PD	D
MW-28	T	8	1	2.2E-04	2.2E-04	No	S	PD
MW-29	T	8	2	9.1E-04	2.2E-04	No	PD	D
MW-3	T	14	14	9.1E-02	9.3E-02	No	I	I
MW-37	T	2	2	1.9E+01	1.9E+01	No	N/A	N/A
MW-4	T	14	1	2.2E-04	2.2E-04	No	NT	NT
MW-5	T	14	14	1.0E-02	1.7E-03	No	PD	PD
MW-6	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-7	T	14	2	3.2E-04	2.2E-04	No	S	S
MW-8	T	14	14	1.3E-01	7.7E-02	No	I	I
MW-9	T	14	14	7.7E-01	5.8E-01	No	D	PD

MAROS Statistical Trend Analysis Summary

Project: Delavan Spray Technologies **User Name:**

Location: Bamberg **State:** South Carolina

Well Name	Source / Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
TETRACHLOROETHYLENE(PCE)								

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); No Detectable Concentration (ND)

The Number of Samples and Number of Detects shown above are post-consolidation values.

Table F-6

MAROS Statistical Trend Analysis Summary

Project: Delavan Spray Technologies - Deep (Limestone) Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Time Period: 3/10/2014 to 10/20/2020
Consolidation Period: Quarterly
Consolidation Type: Geometric Mean
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value

Well	Source / Tail	Number of Samples	Number of Detects	Average Conc. (mg/L)	Median Conc. (mg/L)	All Samples "ND" ?	Mann-Kendall Trend	Linear Regression Trend
TETRACHLOROETHYLENE(PCE)								
MW-10D	T	14	4	2.5E-04	2.2E-04	No	I	I
MW-12D	T	14	14	6.4E-02	4.9E-02	No	NT	NT
MW-13D	T	14	14	1.3E-01	1.1E-01	No	NT	PI
MW-14D	T	14	14	6.9E-02	6.7E-02	No	D	D
MW-15D	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-16D	T	14	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-21D	S	14	14	9.6E-02	7.4E-02	No	NT	NT
MW-22D	T	14	14	1.1E-01	1.1E-01	No	S	S
MW-23D	T	12	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-25D	T	11	11	1.3E-01	1.2E-01	No	NT	NT
MW-26D	T	11	11	7.9E-02	7.6E-02	No	S	S
MW-30D	T	8	8	9.9E-02	8.7E-02	No	S	S
MW-31D	T	8	8	1.7E-01	1.7E-01	No	NT	NT
MW-32DR	T	8	8	3.0E-02	2.8E-02	No	NT	NT
MW-33D	T	3	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-34D	T	3	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-35D	T	3	0	2.2E-04	2.2E-04	Yes	ND	ND
MW-36D	T	3	1	3.2E-04	2.2E-04	No	N/A	N/A
MW-3D	T	14	14	3.0E-01	3.0E-01	No	S	I
MW-9D	T	13	0	2.2E-04	2.2E-04	Yes	ND	ND

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); No Detectable Concentration (ND)

The Number of Samples and Number of Detects shown above are post-consolidation values.

Table F-7

MAROS Spatial Moment Analysis Summary

Project: Delavan Spray Technologies - Shallow
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

	0th Moment	1st Moment (Center of Mass)			2nd Moment (Spread)		
Effective Date	Estimated Mass (Kg)	Xc (ft)	Yc (ft)	Source Distance	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
TETRACHLOROETHYLENE(PCE)							
7/1/2014	7.2E+00	1,985,830	527,435	57	14,055	8,283	24
7/1/2015	7.2E+00	1,985,785	527,448	11	15,019	8,287	24
7/1/2016	6.9E+00	1,985,813	527,432	43	11,982	7,076	24
7/1/2017	8.2E+00	1,985,809	527,413	53	16,731	9,449	24
7/1/2018	1.0E+01	1,985,792	527,447	17	16,067	10,502	24
7/1/2019	9.0E+00	1,985,825	527,431	54	13,682	8,132	24
7/1/2020	8.6E+00	1,985,816	527,443	40	13,075	7,831	24

MAROS Spatial Moment Analysis Summary

Project: Delavan Spray Technologies - Shallow User Name:

Location: Bamberg State: South Carolina

Spatial Moment Analysis Summary:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
0th Moment	TETRACHLOROETHYLENE(PC	0.15	9	88.1%	NT
First Moment	TETRACHLOROETHYLENE(PC	0.47	-1	50.0%	S
Second Moment X	TETRACHLOROETHYLENE(PC	0.12	-3	61.4%	S
Second Moment Y	TETRACHLOROETHYLENE(PC	0.13	-1	50.0%	S

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.20 Saturated Thickness: Uniform: 19.57 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events); (ND) Non Detect.

Note: The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

Table F-8

MAROS Spatial Moment Analysis Summary

Project: Delavan Spray Technologies - Deep (Limestone) Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

	0th Moment	1st Moment (Center of Mass)			2nd Moment (Spread)		
Effective Date	Estimated Mass (Kg)	Xc (ft)	Yc (ft)	Source Distance	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
TETRACHLOROETHYLENE(PCE)							
7/1/2014	7.0E+01	1,985,303	525,633	1,701	111,182	470,124	20
7/1/2015	7.3E+01	1,985,296	525,618	1,717	108,872	446,165	20
7/1/2016	6.9E+01	1,985,318	525,710	1,623	114,258	559,061	20
7/1/2017	6.3E+01	1,985,321	525,684	1,646	111,724	510,455	20
7/1/2018	7.9E+01	1,985,293	525,609	1,726	108,040	459,349	20
7/1/2019	8.9E+01	1,985,247	525,482	1,862	162,807	583,151	20
7/1/2020	6.7E+01	1,985,264	525,424	1,911	189,515	718,667	20

MAROS Spatial Moment Analysis Summary

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Spatial Moment Analysis Summary:

Moment Type	Constituent	Coefficient of Variation	Mann-Kendall S Statistic	Confidence in Trend	Moment Trend
0th Moment	TETRACHLOROETHYLENE(PC	0.12	1	50.0%	NT
First Moment	TETRACHLOROETHYLENE(PC	0.06	13	96.5%	I
Second Moment X	TETRACHLOROETHYLENE(PC	0.25	9	88.1%	NT
Second Moment Y	TETRACHLOROETHYLENE(PC	0.18	11	93.2%	PI

Note: The following assumptions were applied for the calculation of the Zeroth Moment:

Porosity: 0.25 Saturated Thickness: Uniform: 50 ft

Mann-Kendall Trend test performed on all sample events for each constituent. Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events); (ND) Non Detect.

Note: The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

Table F-9

MAROS Sampling Frequency Optimization Results

Project: Delavan Spray Technologies - Shallow Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

The Overall Number of Sampling Events: 14

"Recent Period" defined by events: From 4Q2017 To 4Q2020
10/27/2017 10/20/2020

"Rate of Change" parameters used:

Constituent	Cleanup Goal	Low Rate	Medium Rate	High Rate
TETRACHLORO	0.005	0.0025	0.005	0.01

Units: Cleanup Goal is in mg/L; all rate parameters are in mg/L/year.

Well	Recommended Sampling **Frequency**	Frequency Based on **Recent**	Frequency Based on **All Data**
TETRACHLOROETHYLENE(PCE)			
MW-1	Biennial	Biennial	Biennial
MW-10	Biennial	Biennial	Quarterly
MW-14	Biennial	Biennial	Biennial
MW-19	Quarterly	Quarterly	Quarterly
MW-2	Biennial	Biennial	Biennial
MW-20	Biennial	Biennial	Biennial
MW-21	Biennial	Biennial	Quarterly
MW-24	Quarterly	Quarterly	Quarterly
MW-27	Biennial	Biennial	Biennial
MW-28	Biennial	Biennial	Biennial
MW-29	Biennial	Biennial	Biennial
MW-3	Quarterly	Quarterly	Quarterly
MW-37	Quarterly	Quarterly	Quarterly
MW-4	Biennial	Biennial	Biennial
MW-5	Biennial	Biennial	Biennial
MW-7	Biennial	Biennial	Biennial
MW-8	Quarterly	Quarterly	Quarterly
MW-9	Biennial	Biennial	Biennial

Note: Sampling frequency is determined considering both recent and overall concentration trends. Recommended Sampling Frequency is the final recommendation; Frequency Based on Recent Data is the frequency determined using recent (short) period of monitoring data; Frequency Based on Overall Data is the frequency determined using overall (long) period of monitoring data. If the "recent period" is defined using a different series of sampling events, the results could be different.

Table F-10

MAROS Sampling Frequency Optimization Results

Project: Delavan Spray Technologies - Deep (Limestone) Aquifer **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

The Overall Number of Sampling Events: 14

"Recent Period" defined by events: **From** 2Q2017 **To** 4Q2020
4/11/2017 10/20/2020

"Rate of Change" parameters used:

Constituent	Cleanup Goal	Low Rate	Medium Rate	High Rate
PCE	0.005	0.0025	0.005	0.01

Units: Cleanup Goal is in mg/L; all rate parameters are in mg/L/year.

Well	Recommended Sampling Frequency	Frequency Based on Recent	Frequency Based on All Data
TETRACHLOROETHYLENE(PCE)			
MW-10D	Biennial	Biennial	Biennial
MW-12D	SemiAnnual	SemiAnnual	Annual
MW-13D	Quarterly	Quarterly	Quarterly
MW-14D	Biennial	Biennial	Biennial
MW-15D	Biennial	Biennial	Biennial
MW-16D	Biennial	Biennial	Biennial
MW-21D	Biennial	Biennial	Biennial
MW-22D	Biennial	Biennial	Biennial
MW-23D	Biennial	Biennial	Biennial
MW-25D	SemiAnnual	Annual	SemiAnnual
MW-26D	Biennial	Biennial	Biennial
MW-30D	Biennial	Biennial	Biennial
MW-31D	SemiAnnual	SemiAnnual	SemiAnnual
MW-32DR	Biennial	Biennial	Biennial
MW-33D	Annual	Annual	Annual
MW-34D	Annual	Annual	Annual
MW-35D	Annual	Annual	Annual
MW-36D	Annual	Annual	Annual
MW-3D	SemiAnnual	SemiAnnual	Biennial
MW-9D	Biennial	Biennial	Biennial

Note: Sampling frequency is determined considering both recent and overall concentration trends. Recommended Sampling Frequency is the final recommendation; Frequency Based on Recent Data is the frequency determined using recent (short) period of monitoring data; Frequency Based on Overall Data is the frequency determined using overall (long) period of monitoring data. If the "recent period" is defined using a different series of sampling events, the results could be different.

ATTACHMENT 1

Linear Regression Summaries and Graphs

MAROS Linear Regression Statistics Summary

Project: Delavan Spray Technologies - Shallow Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value

Well	Source/Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
TETRACHLOROETHYLENE(PCE)									
MW-1	T	4.9E-01	4.3E-01	3.2E-01	No	-7.1E-04	0.66	99.9%	D
MW-10	T	2.4E-01	8.8E-02	4.0E-01	No	6.9E-04	1.64	96.6%	I
MW-11	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-14	T	7.1E-04	6.9E-04	5.0E-04	No	-5.5E-06	0.71	100.0%	D
MW-15	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-16	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-17	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-18	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-19	S	2.2E+01	2.0E+01	1.2E+01	No	7.8E-04	0.58	99.9%	I
MW-2	T	1.3E-03	1.3E-03	6.4E-04	No	2.3E-04	0.50	91.5%	PI
MW-20	S	4.4E-01	4.5E-01	1.3E-01	No	-3.1E-04	0.29	99.7%	D
MW-21	S	1.7E+01	1.7E+01	6.5E+00	No	3.0E-04	0.38	73.3%	NT
MW-24	T	1.8E+00	2.1E+00	6.1E-01	No	6.5E-04	0.35	99.2%	I
MW-27	T	3.4E-04	2.2E-04	2.7E-04	No	-8.9E-04	0.81	98.1%	D
MW-28	T	2.2E-04	2.2E-04	7.1E-06	No	-4.0E-05	0.03	93.7%	PD
MW-29	T	9.1E-04	2.2E-04	1.8E-03	No	-1.8E-03	2.00	97.5%	D
MW-3	T	9.1E-02	9.3E-02	4.7E-02	No	8.2E-04	0.51	96.2%	I
MW-37	T	1.9E+01	1.9E+01	7.8E+00	No	0.0E+00	0.00	0.0%	N/A
MW-4	T	2.2E-04	2.2E-04	1.6E-05	No	1.5E-05	0.07	72.6%	NT
MW-5	T	1.0E-02	1.7E-03	2.0E-02	No	-9.1E-04	1.95	94.9%	PD

MAROS Linear Regression Statistics Summary

Delavan Spray Technologies **User Name:**

Bamberg **State:** South Carolina

TETRACHLOROETHYLENE(PCE)

Well	Source/Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
MW-6	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-7	T	3.2E-04	2.2E-04	3.2E-04	No	-1.6E-04	0.98	79.4%	S
MW-8	T	1.3E-01	7.7E-02	1.2E-01	No	1.0E-03	0.97	99.5%	I
MW-9	T	7.7E-01	5.8E-01	5.7E-01	No	-3.3E-04	0.75	92.0%	PD

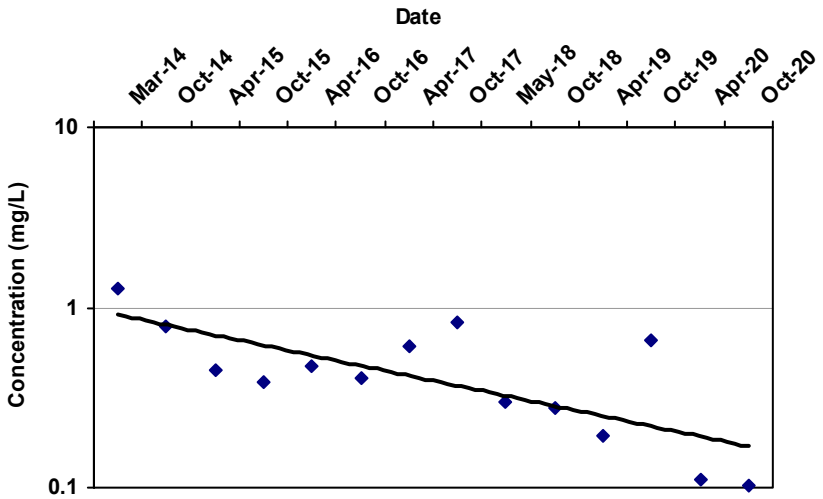
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Non-detect (ND); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); COV = Coefficient of Variation

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-1	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.66

Confidence in Trend:

99.9%

Ln Slope:

-7.1E-04

LR Concentration Trend:

D

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-1	T	3/10/2014	TETRACHLOR	1.3E+00		1	1
MW-1	T	10/28/2014	TETRACHLOR	7.9E-01		1	1
MW-1	T	4/21/2015	TETRACHLOR	4.5E-01		1	1
MW-1	T	10/27/2015	TETRACHLOR	3.8E-01		1	1
MW-1	T	4/12/2016	TETRACHLOR	4.7E-01		1	1
MW-1	T	10/25/2016	TETRACHLOR	4.1E-01		1	1
MW-1	T	4/11/2017	TETRACHLOR	6.1E-01		1	1
MW-1	T	10/17/2017	TETRACHLOR	8.4E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-1	T	5/8/2018	TETRACHLOR	3.0E-01		1	1
MW-1	T	10/30/2018	TETRACHLOR	2.8E-01		1	1
MW-1	T	4/23/2019	TETRACHLOR	2.0E-01		1	1
MW-1	T	10/16/2019	TETRACHLOR	6.6E-01		1	1
MW-1	T	4/15/2020	TETRACHLOR	1.1E-01		1	1
MW-1	T	10/20/2020	TETRACHLOR	1.0E-01		1	1

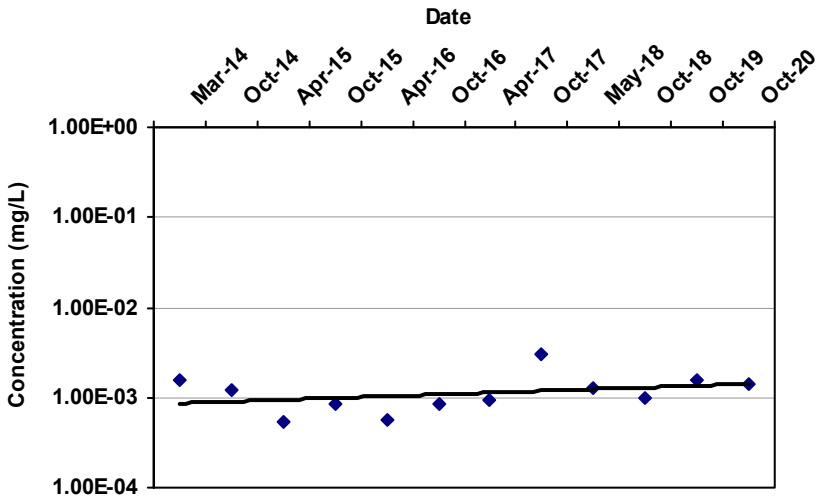
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-2	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.55

Confidence in Trend:

85.4%

Ln Slope:

2.2E-04

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-2	T	3/10/2014	TETRACHLOR	1.6E-03		1	1
MW-2	T	10/28/2014	TETRACHLOR	1.2E-03		1	1
MW-2	T	4/21/2015	TETRACHLOR	5.3E-04		1	1
MW-2	T	10/27/2015	TETRACHLOR	8.5E-04		1	1
MW-2	T	4/12/2016	TETRACHLOR	5.7E-04		1	1
MW-2	T	10/25/2016	TETRACHLOR	8.3E-04		1	1
MW-2	T	4/11/2017	TETRACHLOR	9.2E-04		1	1
MW-2	T	10/17/2017	TETRACHLOR	3.1E-03		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-2	T	5/8/2018	TETRACHLOR	1.3E-03		1	1
MW-2	T	10/30/2018	TETRACHLOR	1.0E-03		1	1
MW-2	T	10/16/2019	TETRACHLOR	1.6E-03		1	1
MW-2	T	10/20/2020	TETRACHLOR	1.4E-03		1	1

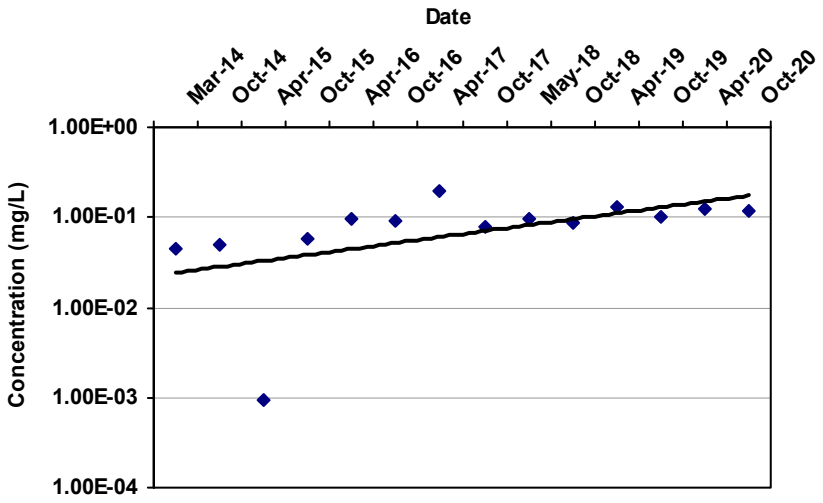
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-3	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.51

Confidence in Trend:

96.2%

Ln Slope:

8.2E-04

LR Concentration Trend:

I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3	T	3/10/2014	TETRACHLOR	4.5E-02		1	1
MW-3	T	10/28/2014	TETRACHLOR	5.0E-02		1	1
MW-3	T	4/21/2015	TETRACHLOR	9.2E-04		1	1
MW-3	T	10/27/2015	TETRACHLOR	5.7E-02		1	1
MW-3	T	4/12/2016	TETRACHLOR	9.8E-02		1	1
MW-3	T	10/25/2016	TETRACHLOR	9.2E-02		1	1
MW-3	T	4/11/2017	TETRACHLOR	2.0E-01		1	1
MW-3	T	10/17/2017	TETRACHLOR	7.7E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3	T	5/8/2018	TETRACHLOR	9.5E-02		1	1
MW-3	T	10/30/2018	TETRACHLOR	8.7E-02		1	1
MW-3	T	4/23/2019	TETRACHLOR	1.3E-01		1	1
MW-3	T	10/16/2019	TETRACHLOR	9.9E-02		1	1
MW-3	T	4/15/2020	TETRACHLOR	1.2E-01		1	1
MW-3	T	10/20/2020	TETRACHLOR	1.2E-01		1	1

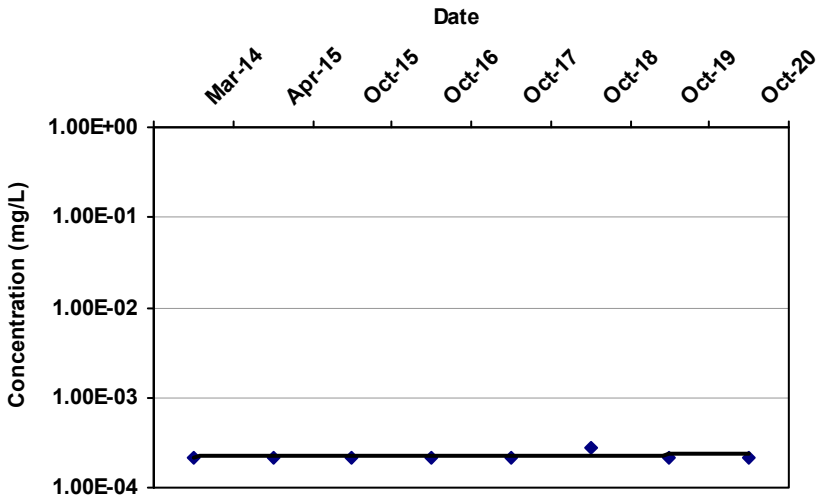
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-4	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.09

Confidence in Trend:

72.3%

Ln Slope:

2.5E-05

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-4	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-4	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-4	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-4	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-4	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-4	T	10/30/2018	TETRACHLOR	2.8E-04		1	1
MW-4	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-4	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

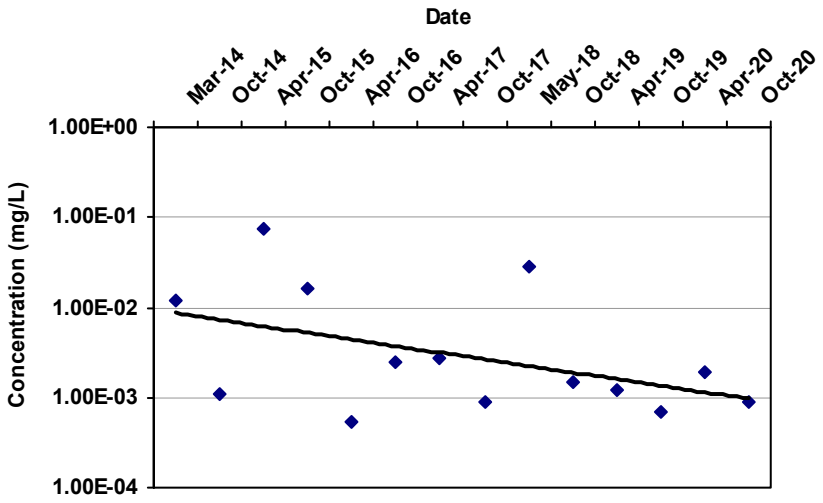
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-5	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

1.95

Confidence in Trend:

94.9%

Ln Slope:

-9.1E-04

LR Concentration Trend:

PD

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-5	T	3/10/2014	TETRACHLOR	1.2E-02		1	1
MW-5	T	10/28/2014	TETRACHLOR	1.1E-03		1	1
MW-5	T	4/21/2015	TETRACHLOR	7.4E-02		1	1
MW-5	T	10/27/2015	TETRACHLOR	1.6E-02		1	1
MW-5	T	4/12/2016	TETRACHLOR	5.3E-04		1	1
MW-5	T	10/25/2016	TETRACHLOR	2.5E-03		1	1
MW-5	T	4/11/2017	TETRACHLOR	2.7E-03		1	1
MW-5	T	10/17/2017	TETRACHLOR	8.7E-04		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-5	T	5/8/2018	TETRACHLOR	2.8E-02		1	1
MW-5	T	10/30/2018	TETRACHLOR	1.5E-03		1	1
MW-5	T	4/23/2019	TETRACHLOR	1.2E-03		1	1
MW-5	T	10/16/2019	TETRACHLOR	6.9E-04		1	1
MW-5	T	4/15/2020	TETRACHLOR	1.9E-03		1	1
MW-5	T	10/20/2020	TETRACHLOR	8.9E-04		1	1

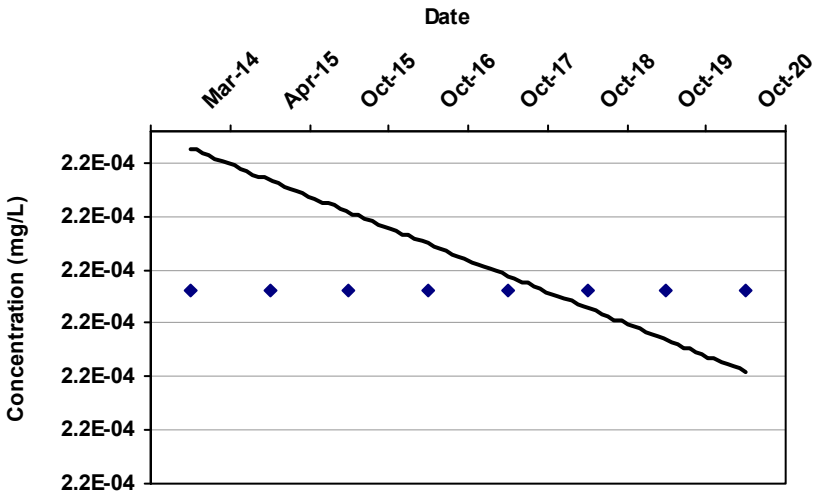
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-6	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-6	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-6	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

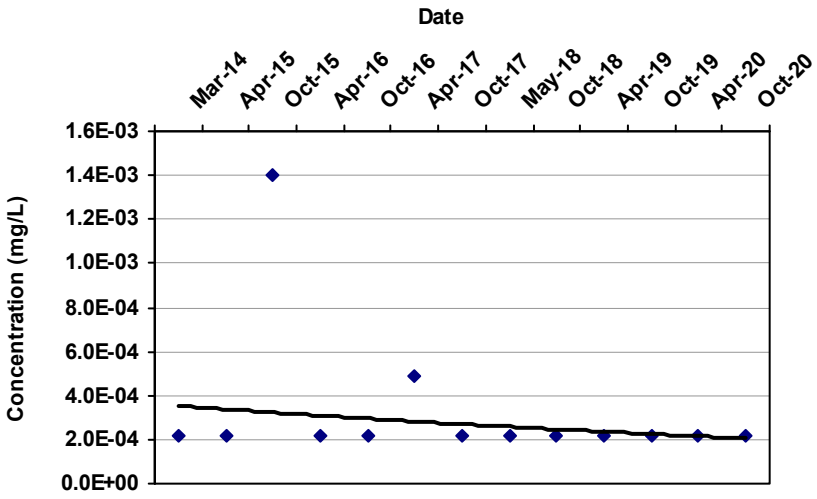
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-7	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.99

Confidence in Trend:

84.1%

Ln Slope:

-2.2E-04

LR Concentration Trend:

S

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-7	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	10/27/2015	TETRACHLOR	1.4E-03		1	1
MW-7	T	4/12/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	4/11/2017	TETRACHLOR	4.9E-04		1	1
MW-7	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	5/8/2018	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-7	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-7	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

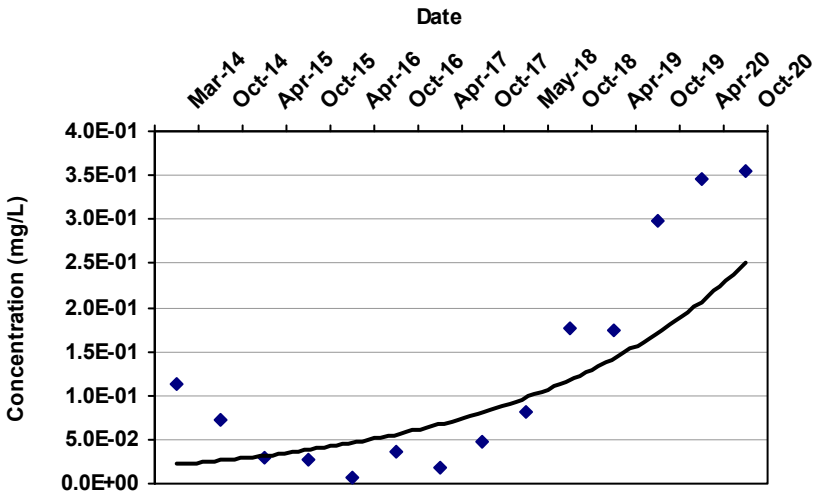
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-8	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.97

Confidence in Trend:

99.5%

Ln Slope:

1.0E-03

LR Concentration Trend:

I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-8	T	3/10/2014	TETRACHLOR	1.1E-01		1	1
MW-8	T	10/28/2014	TETRACHLOR	7.1E-02		1	1
MW-8	T	4/21/2015	TETRACHLOR	2.9E-02		1	1
MW-8	T	10/27/2015	TETRACHLOR	2.6E-02		1	1
MW-8	T	4/12/2016	TETRACHLOR	7.8E-03		1	1
MW-8	T	10/25/2016	TETRACHLOR	3.6E-02		1	1
MW-8	T	4/11/2017	TETRACHLOR	1.9E-02		1	1
MW-8	T	10/17/2017	TETRACHLOR	4.8E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-8	T	5/8/2018	TETRACHLOR	8.2E-02		1	1
MW-8	T	10/30/2018	TETRACHLOR	1.8E-01		1	1
MW-8	T	4/23/2019	TETRACHLOR	1.7E-01		1	1
MW-8	T	10/16/2019	TETRACHLOR	3.0E-01		1	1
MW-8	T	4/15/2020	TETRACHLOR	3.5E-01		1	1
MW-8	T	10/20/2020	TETRACHLOR	3.6E-01		1	1

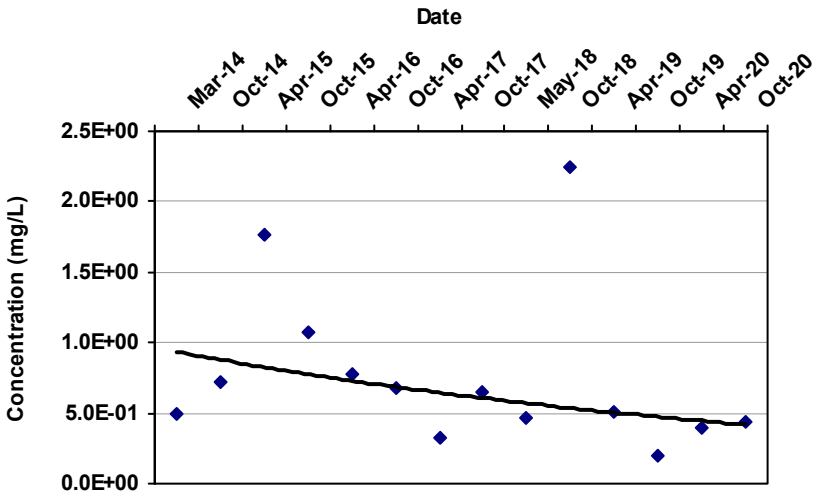
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-9	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.75

Confidence in Trend:

92.0%

Ln Slope:

-3.3E-04

LR Concentration Trend:

PD

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-9	T	3/10/2014	TETRACHLOR	5.0E-01		1	1
MW-9	T	10/28/2014	TETRACHLOR	7.3E-01		1	1
MW-9	T	4/21/2015	TETRACHLOR	1.8E+00		1	1
MW-9	T	10/27/2015	TETRACHLOR	1.1E+00		1	1
MW-9	T	4/12/2016	TETRACHLOR	7.7E-01		1	1
MW-9	T	10/25/2016	TETRACHLOR	6.9E-01		1	1
MW-9	T	4/11/2017	TETRACHLOR	3.3E-01		1	1
MW-9	T	10/17/2017	TETRACHLOR	6.5E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-9	T	5/8/2018	TETRACHLOR	4.7E-01		1	1
MW-9	T	10/30/2018	TETRACHLOR	2.2E+00		1	1
MW-9	T	4/23/2019	TETRACHLOR	5.1E-01		1	1
MW-9	T	10/16/2019	TETRACHLOR	1.9E-01		1	1
MW-9	T	4/15/2020	TETRACHLOR	4.0E-01		1	1
MW-9	T	10/20/2020	TETRACHLOR	4.4E-01		1	1

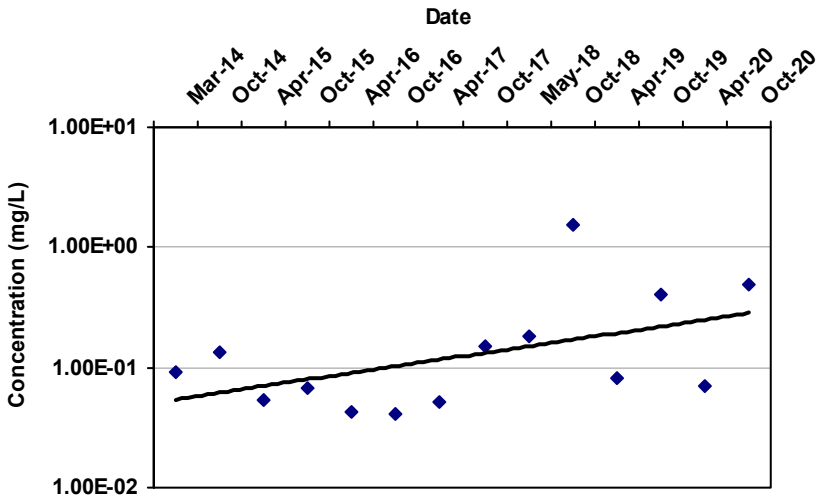
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-10	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

1.64

Confidence in Trend:

96.6%

Ln Slope:

6.9E-04

LR Concentration Trend:

I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10	T	3/10/2014	TETRACHLOR	9.3E-02		1	1
MW-10	T	10/28/2014	TETRACHLOR	1.4E-01		1	1
MW-10	T	4/21/2015	TETRACHLOR	5.4E-02		1	1
MW-10	T	10/27/2015	TETRACHLOR	6.6E-02		1	1
MW-10	T	4/12/2016	TETRACHLOR	4.3E-02		1	1
MW-10	T	10/25/2016	TETRACHLOR	4.1E-02		1	1
MW-10	T	4/11/2017	TETRACHLOR	5.2E-02		1	1
MW-10	T	10/17/2017	TETRACHLOR	1.5E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10	T	5/8/2018	TETRACHLOR	1.8E-01		1	1
MW-10	T	10/30/2018	TETRACHLOR	1.6E+00		1	1
MW-10	T	4/23/2019	TETRACHLOR	8.3E-02		1	1
MW-10	T	10/16/2019	TETRACHLOR	4.1E-01		1	1
MW-10	T	4/15/2020	TETRACHLOR	7.0E-02		1	1
MW-10	T	10/20/2020	TETRACHLOR	4.9E-01		1	1

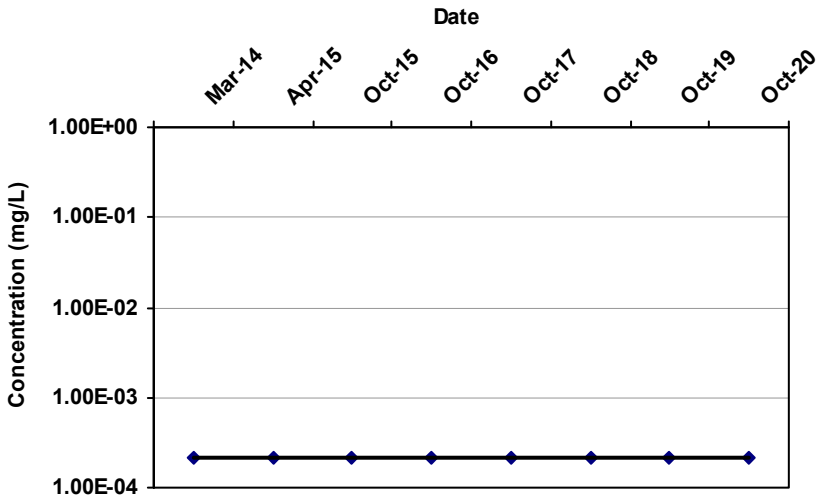
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-11	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-11	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-11	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

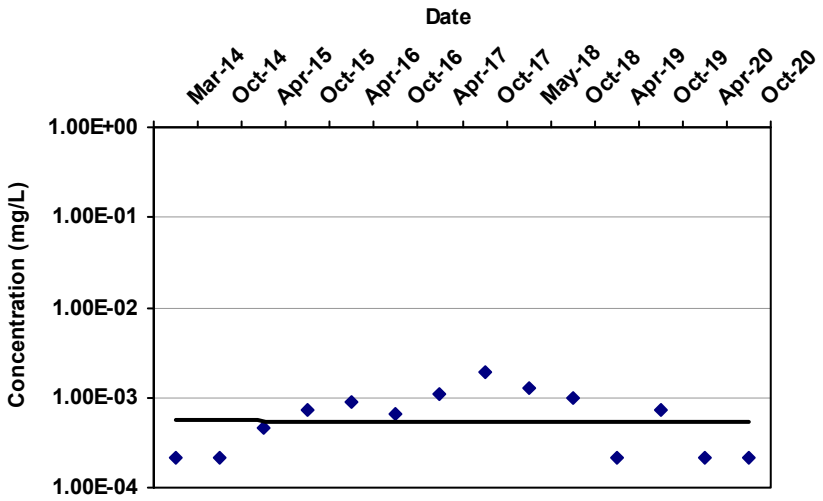
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-14	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.71

Confidence in Trend:

100.0%

Ln Slope:

-5.5E-06

LR Concentration Trend:

D

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-14	T	10/28/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-14	T	4/21/2015	TETRACHLOR	4.6E-04		1	1
MW-14	T	10/27/2015	TETRACHLOR	7.2E-04		1	1
MW-14	T	4/12/2016	TETRACHLOR	9.0E-04		1	1
MW-14	T	10/25/2016	TETRACHLOR	6.6E-04		1	1
MW-14	T	4/11/2017	TETRACHLOR	1.1E-03		1	1
MW-14	T	10/17/2017	TETRACHLOR	1.9E-03		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14	T	5/8/2018	TETRACHLOR	1.3E-03		1	1
MW-14	T	10/30/2018	TETRACHLOR	1.0E-03		1	1
MW-14	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-14	T	10/16/2019	TETRACHLOR	7.4E-04		1	1
MW-14	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-14	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

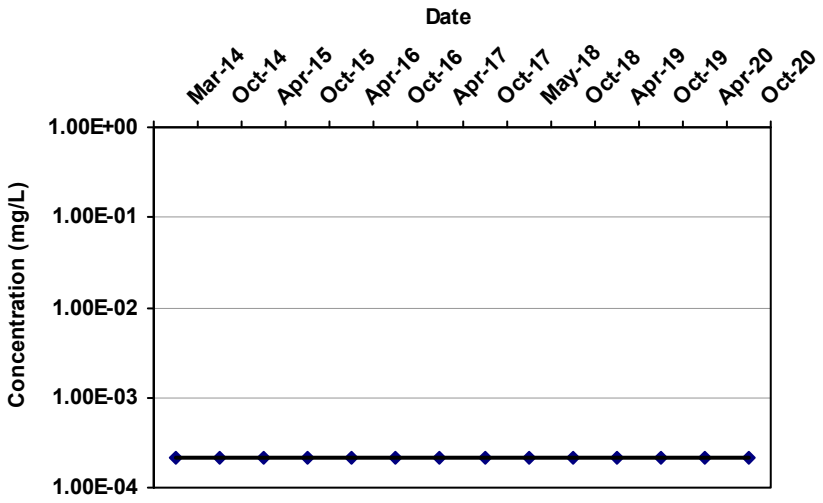
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-15	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/28/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	4/12/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	4/11/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15	T	5/8/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-15	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

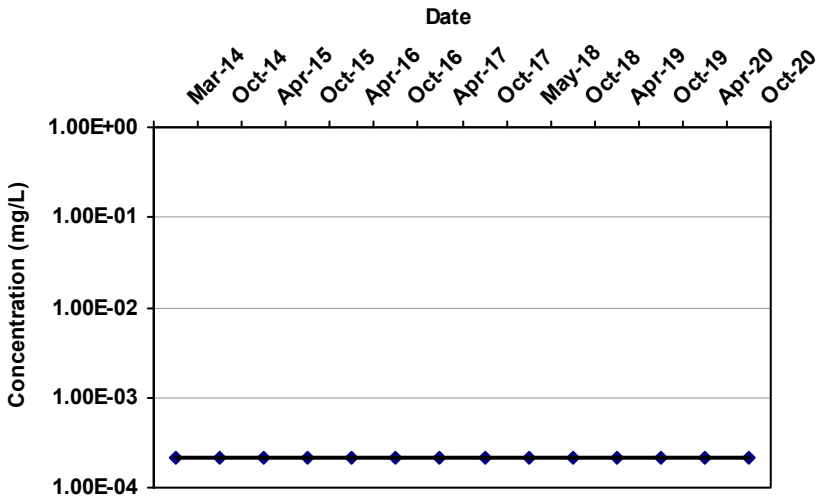
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-16	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/28/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	4/12/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	4/11/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16	T	5/8/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-16	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

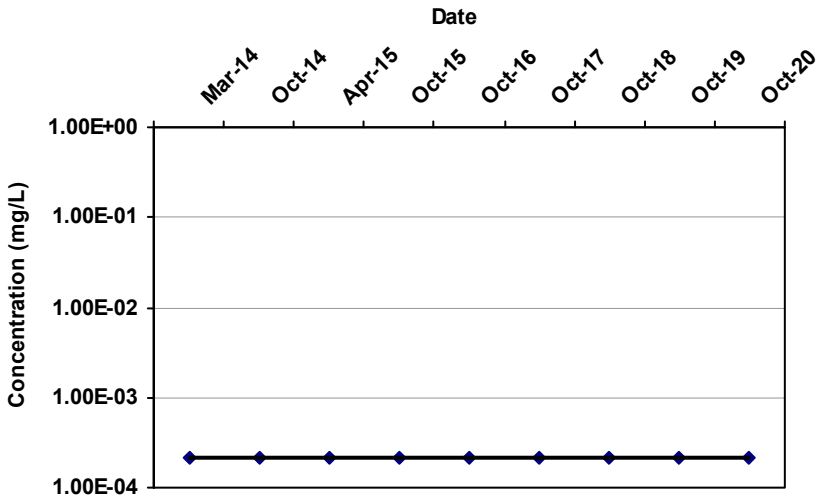
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-17	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-17	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	10/28/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-17	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-17	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

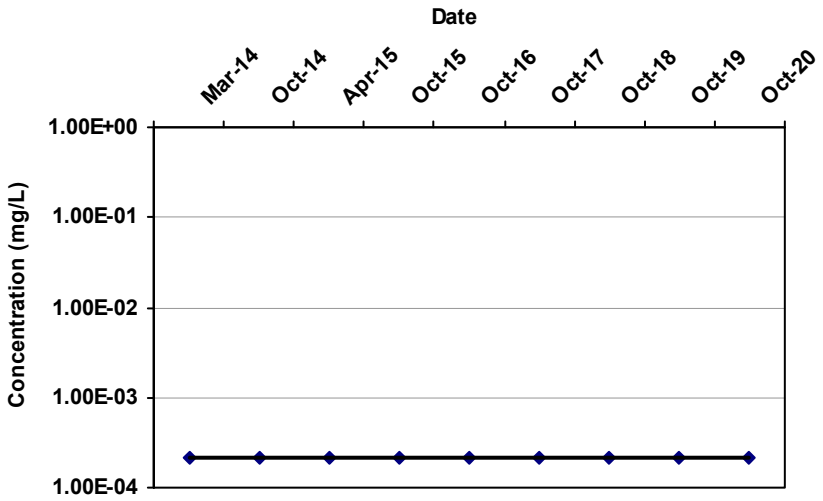
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-18	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-18	T	3/10/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	10/28/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	4/21/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	10/27/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	10/25/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-18	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-18	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

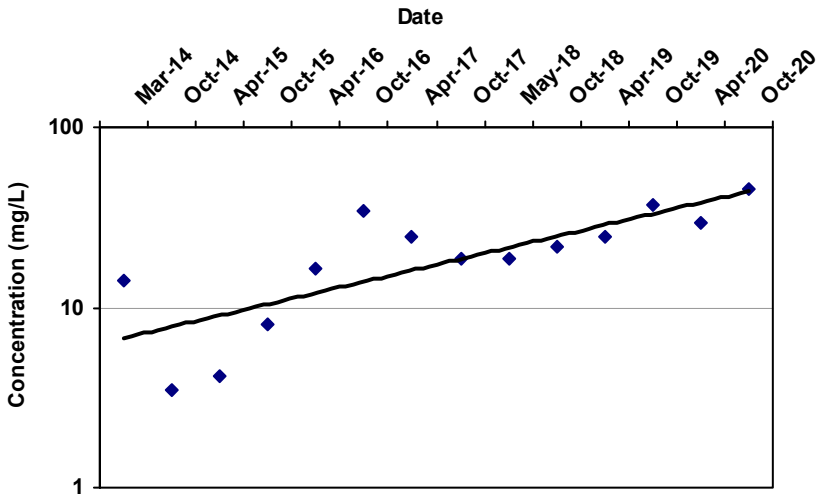
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-19	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	S	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.58

Confidence in Trend:

99.9%

Ln Slope:

7.8E-04

LR Concentration Trend:

I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-19	S	3/10/2014	TETRACHLOR	1.4E+01		1	1
MW-19	S	10/28/2014	TETRACHLOR	3.5E+00		1	1
MW-19	S	4/21/2015	TETRACHLOR	4.2E+00		1	1
MW-19	S	10/27/2015	TETRACHLOR	8.0E+00		1	1
MW-19	S	4/12/2016	TETRACHLOR	1.7E+01		1	1
MW-19	S	10/25/2016	TETRACHLOR	3.5E+01		1	1
MW-19	S	4/11/2017	TETRACHLOR	2.5E+01		1	1
MW-19	S	10/17/2017	TETRACHLOR	1.9E+01		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-19	S	5/8/2018	TETRACHLOR	1.9E+01		1	1
MW-19	S	10/30/2018	TETRACHLOR	2.2E+01		1	1
MW-19	S	4/23/2019	TETRACHLOR	2.4E+01		1	1
MW-19	S	10/16/2019	TETRACHLOR	3.7E+01		1	1
MW-19	S	4/15/2020	TETRACHLOR	3.0E+01		1	1
MW-19	S	10/20/2020	TETRACHLOR	4.6E+01		1	1

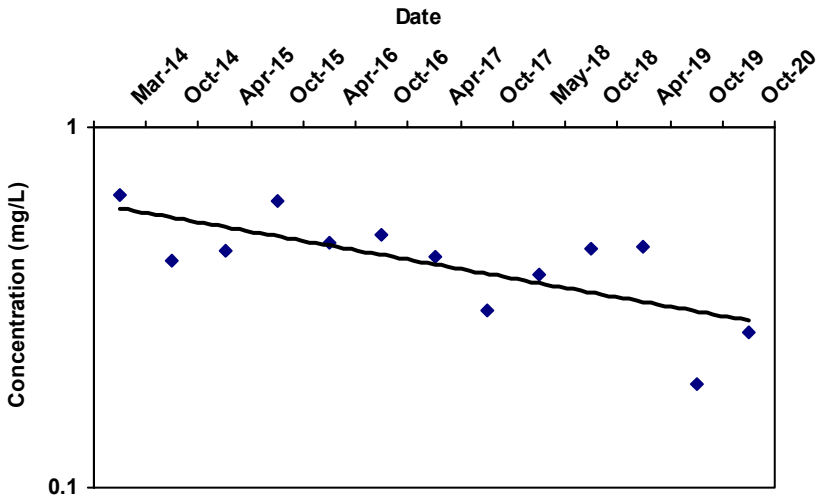
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-20	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	S	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.29

Confidence in Trend:

99.7%

Ln Slope:

-3.1E-04

LR Concentration Trend:

D

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-20	S	3/10/2014	TETRACHLOR	6.5E-01		1	1
MW-20	S	10/28/2014	TETRACHLOR	4.3E-01		1	1
MW-20	S	4/21/2015	TETRACHLOR	4.5E-01		1	1
MW-20	S	10/27/2015	TETRACHLOR	6.2E-01		1	1
MW-20	S	4/12/2016	TETRACHLOR	4.8E-01		1	1
MW-20	S	10/25/2016	TETRACHLOR	5.0E-01		1	1
MW-20	S	4/11/2017	TETRACHLOR	4.4E-01		1	1
MW-20	S	10/17/2017	TETRACHLOR	3.1E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-20	S	5/8/2018	TETRACHLOR	3.9E-01		1	1
MW-20	S	10/30/2018	TETRACHLOR	4.6E-01		1	1
MW-20	S	4/23/2019	TETRACHLOR	4.7E-01		1	1
MW-20	S	10/16/2019	TETRACHLOR	1.9E-01		1	1
MW-20	S	10/20/2020	TETRACHLOR	2.7E-01		1	1

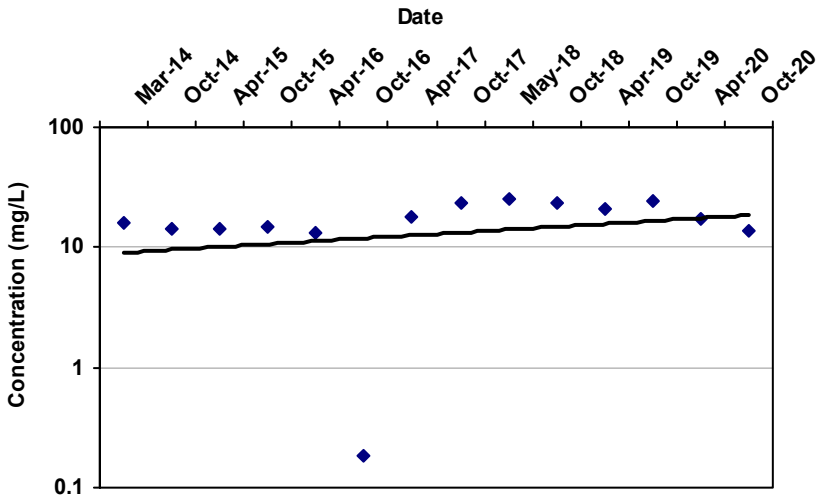
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-21	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	S	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.38

Confidence in Trend:

73.3%

Ln Slope:

3.0E-04

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21	S	3/10/2014	TETRACHLOR	1.6E+01		1	1
MW-21	S	10/28/2014	TETRACHLOR	1.5E+01		1	1
MW-21	S	4/21/2015	TETRACHLOR	1.5E+01		1	1
MW-21	S	10/27/2015	TETRACHLOR	1.5E+01		1	1
MW-21	S	4/12/2016	TETRACHLOR	1.3E+01		1	1
MW-21	S	10/25/2016	TETRACHLOR	1.8E-01		1	1
MW-21	S	4/11/2017	TETRACHLOR	1.8E+01		1	1
MW-21	S	10/17/2017	TETRACHLOR	2.4E+01		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21	S	5/8/2018	TETRACHLOR	2.6E+01		1	1
MW-21	S	10/30/2018	TETRACHLOR	2.3E+01		1	1
MW-21	S	4/23/2019	TETRACHLOR	2.1E+01		1	1
MW-21	S	10/16/2019	TETRACHLOR	2.4E+01		1	1
MW-21	S	4/15/2020	TETRACHLOR	1.8E+01		1	1
MW-21	S	10/20/2020	TETRACHLOR	1.4E+01		1	1

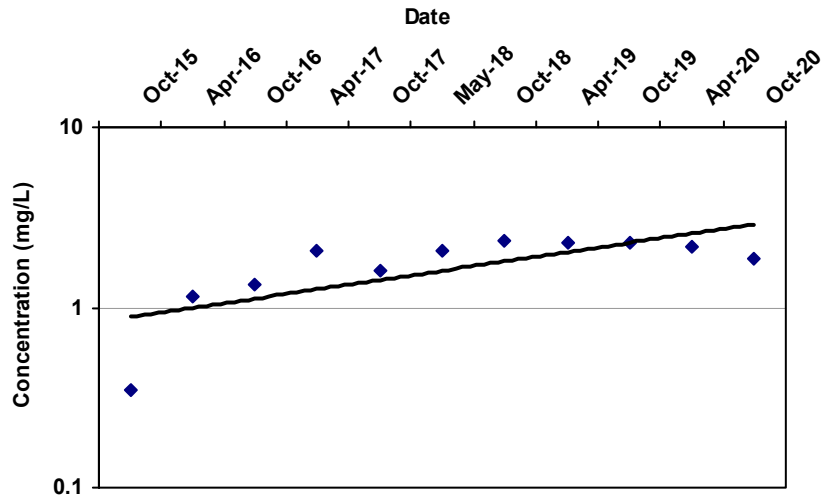
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-24	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.35

Confidence in Trend:

99.2%

Ln Slope:

6.5E-04

LR Concentration Trend:

I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-24	T	10/27/2015	TETRACHLOR	3.4E-01		1	1
MW-24	T	4/12/2016	TETRACHLOR	1.2E+00		1	1
MW-24	T	10/25/2016	TETRACHLOR	1.3E+00		1	1
MW-24	T	4/11/2017	TETRACHLOR	2.1E+00		1	1
MW-24	T	10/17/2017	TETRACHLOR	1.6E+00		1	1
MW-24	T	5/8/2018	TETRACHLOR	2.1E+00		1	1
MW-24	T	10/30/2018	TETRACHLOR	2.3E+00		1	1
MW-24	T	4/23/2019	TETRACHLOR	2.3E+00		1	1

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-24	T	10/16/2019	TETRACHLOR	2.3E+00		1	1
MW-24	T	4/15/2020	TETRACHLOR	2.2E+00		1	1
MW-24	T	10/20/2020	TETRACHLOR	1.9E+00		1	1

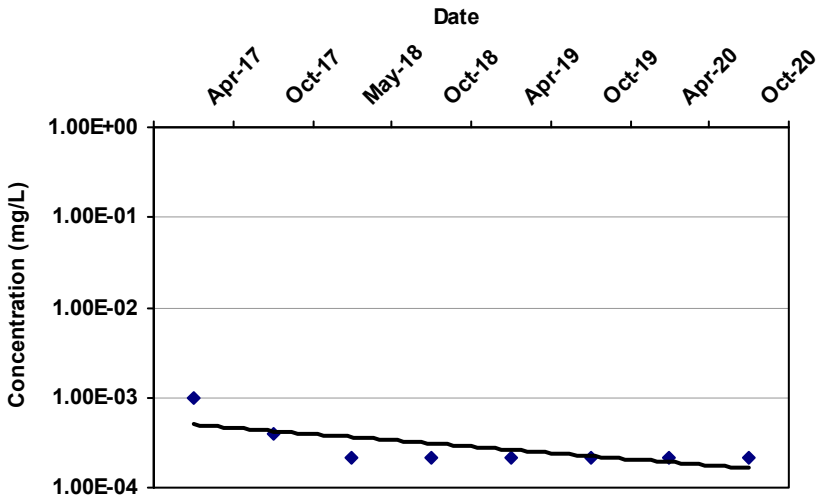
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-27	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.81

Confidence in Trend:

98.1%

Ln Slope:

-8.9E-04

LR Concentration Trend:

D

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-27	T	4/11/2017	TETRACHLOR	1.0E-03		1	1
MW-27	T	10/17/2017	TETRACHLOR	3.9E-04		1	1
MW-27	T	5/8/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-27	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-27	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-27	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-27	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-27	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

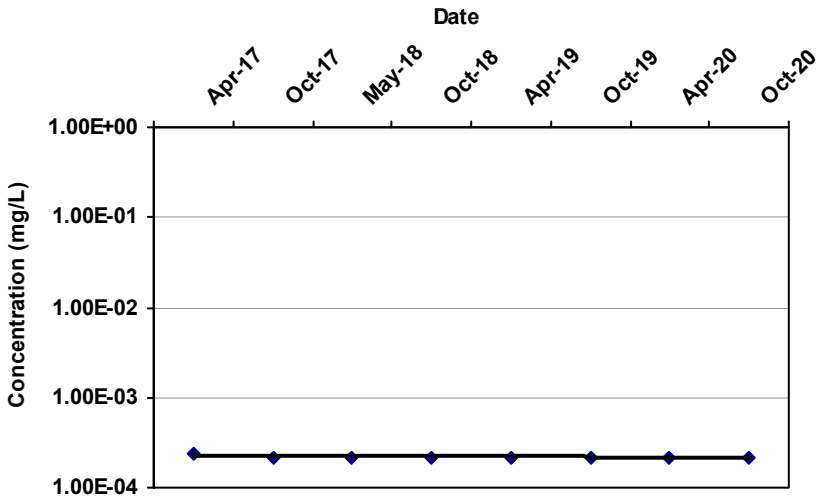
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-28	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.03

Confidence in Trend:

93.7%

Ln Slope:

-4.0E-05

LR Concentration Trend:

PD

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-28	T	4/11/2017	TETRACHLOR	2.4E-04		1	1
MW-28	T	10/17/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-28	T	5/8/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-28	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-28	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-28	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-28	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-28	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

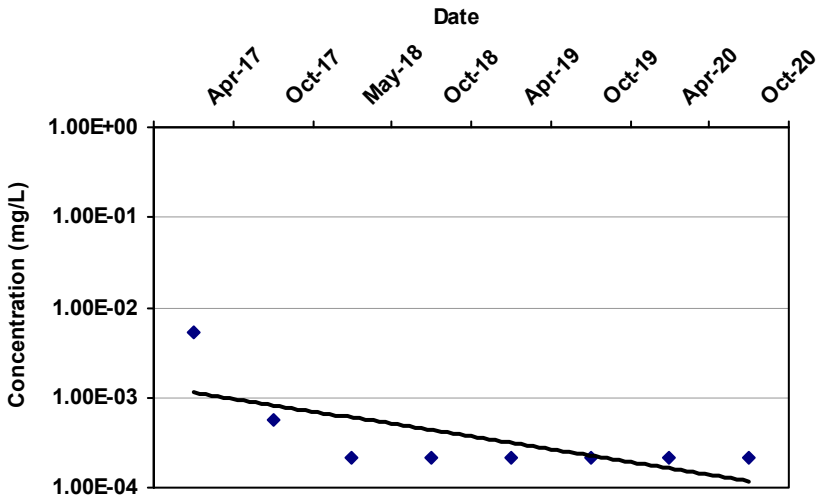
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-29	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

2.00

Confidence in Trend:

97.5%

Ln Slope:

-1.8E-03

LR Concentration Trend:

D

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-29	T	4/11/2017	TETRACHLOR	5.4E-03		1	1
MW-29	T	10/17/2017	TETRACHLOR	5.6E-04		1	1
MW-29	T	5/8/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-29	T	10/30/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-29	T	4/23/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-29	T	10/16/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-29	T	4/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-29	T	10/20/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

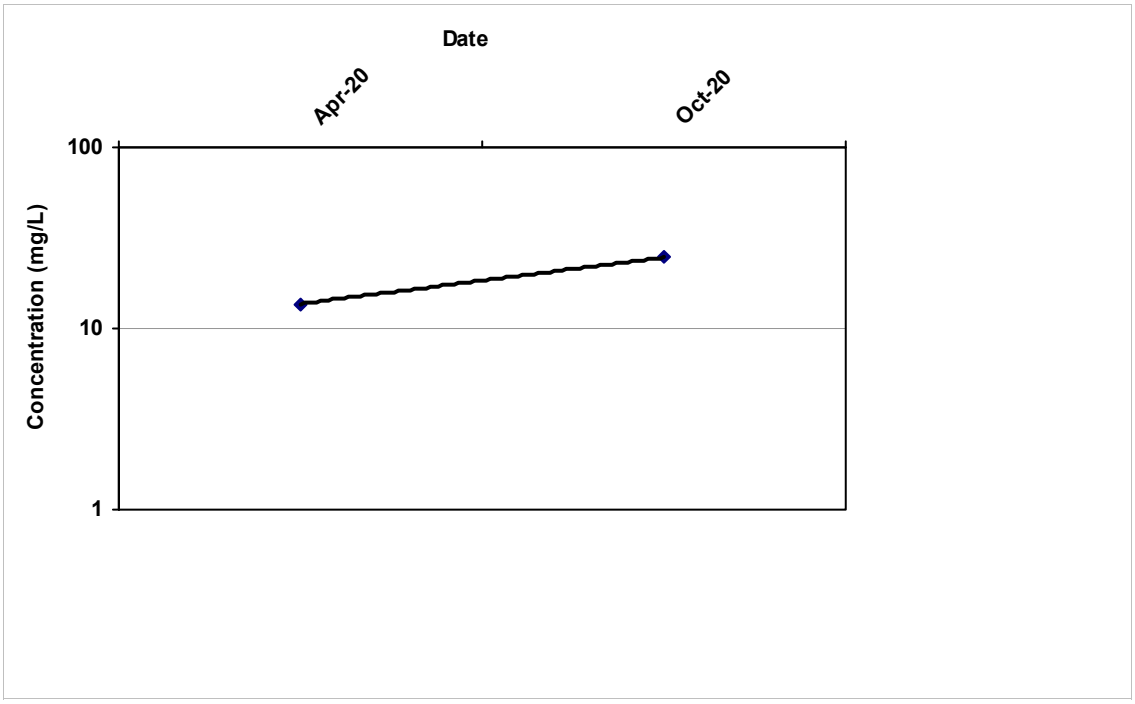
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-37	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Average
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

0.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

N/A

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-37	T	4/15/2020	TETRACHLOR	1.4E+01		1	1
MW-37	T	10/20/2020	TETRACHLOR	2.5E+01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics Summary

Project: Delavan Spray Technologies - Deep (Limestone) Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Time Period: 3/10/2014 to 10/20/2020
Consolidation Period: No Time Consolidation
Consolidation Type: Geometric Mean
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value

Well	Source/Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend
TETRACHLOROETHYLENE(PCE)									
MW-10D	T	2.5E-04	2.2E-04	6.4E-05	No	1.9E-04	0.26	99.7%	I
MW-12D	T	6.4E-02	4.9E-02	3.8E-02	No	2.0E-04	0.59	82.3%	NT
MW-13D	T	1.3E-01	1.1E-01	6.3E-02	No	2.3E-04	0.50	91.5%	PI
MW-14D	T	6.9E-02	6.7E-02	1.2E-02	No	-1.1E-04	0.17	96.4%	D
MW-15D	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-16D	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-21D	S	9.6E-02	7.4E-02	1.1E-01	No	-8.8E-05	1.12	56.2%	NT
MW-22D	T	1.1E-01	1.1E-01	3.0E-02	No	-8.7E-05	0.26	80.7%	S
MW-23D	T	2.2E-04	2.2E-04	5.7E-20	Yes	0.0E+00	0.00	100.0%	ND
MW-25D	T	1.3E-01	1.2E-01	3.1E-02	No	1.3E-04	0.25	84.4%	NT
MW-26D	T	7.9E-02	7.6E-02	1.3E-02	No	-6.7E-05	0.16	75.8%	S
MW-30D	T	9.9E-02	8.7E-02	3.0E-02	No	-1.0E-05	0.30	51.5%	S
MW-31D	T	1.7E-01	1.7E-01	4.9E-02	No	1.6E-04	0.29	70.5%	NT
MW-32DR	T	3.0E-02	2.8E-02	4.8E-03	No	1.2E-05	0.16	53.3%	NT
MW-33D	T	2.2E-04	2.2E-04	0.0E+00	Yes	0.0E+00	0.00	0.0%	ND
MW-34D	T	2.2E-04	2.2E-04	0.0E+00	Yes	0.0E+00	0.00	0.0%	ND
MW-35D	T	2.2E-04	2.2E-04	0.0E+00	Yes	0.0E+00	0.00	0.0%	ND
MW-36D	T	3.2E-04	2.2E-04	1.7E-04	No	0.0E+00	0.00	0.0%	N/A
MW-3D	T	3.0E-01	3.0E-01	6.5E-02	No	1.6E-06	0.21	100.0%	I
MW-9D	T	2.2E-04	2.2E-04	5.6E-20	Yes	0.0E+00	0.00	100.0%	ND

MAROS Linear Regression Statistics Summary

Delavan Spray Technologies
Bamberg

User Name: Leslee Alexander
State: South Carolina

TETRACHLOROETHYLENE(PCE)

Well	Source/Tail	Average Conc (mg/L)	Median Conc (mg/L)	Standard Deviation	All Samples "ND" ?	Ln Slope	Coefficient of Variation	Confidence in Trend	Concentration Trend

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Non-detect (ND); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); COV = Coefficient of Variation

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-3D **Time Period:** 3/10/2014 **to** 10/20/2020

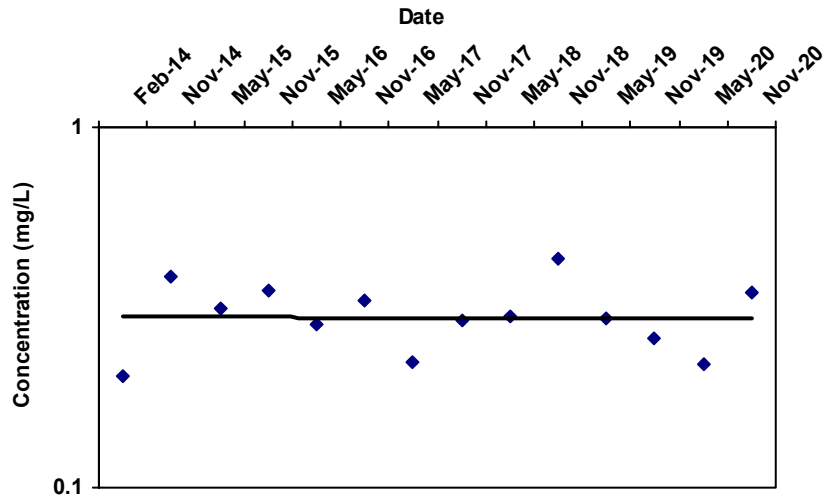
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV: 0.21

Confidence in Trend: 100.0%

Ln Slope: 1.6E-06

LR Concentration Trend: I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3D	T	2/15/2014	TETRACHLOR	2.0E-01		1	1
MW-3D	T	11/15/2014	TETRACHLOR	3.8E-01		1	1
MW-3D	T	5/15/2015	TETRACHLOR	3.2E-01		1	1
MW-3D	T	11/15/2015	TETRACHLOR	3.5E-01		1	1
MW-3D	T	5/15/2016	TETRACHLOR	2.9E-01		1	1
MW-3D	T	11/15/2016	TETRACHLOR	3.3E-01		1	1
MW-3D	T	5/15/2017	TETRACHLOR	2.2E-01		1	1
MW-3D	T	11/15/2017	TETRACHLOR	2.9E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3D	T	5/15/2018	TETRACHLOR	3.0E-01		1	1
MW-3D	T	11/15/2018	TETRACHLOR	4.3E-01		1	1
MW-3D	T	5/15/2019	TETRACHLOR	3.0E-01		1	1
MW-3D	T	11/15/2019	TETRACHLOR	2.6E-01		1	1
MW-3D	T	5/15/2020	TETRACHLOR	2.2E-01		1	1
MW-3D	T	11/15/2020	TETRACHLOR	3.5E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-9D **Time Period:** 3/10/2014 **to** 10/20/2020

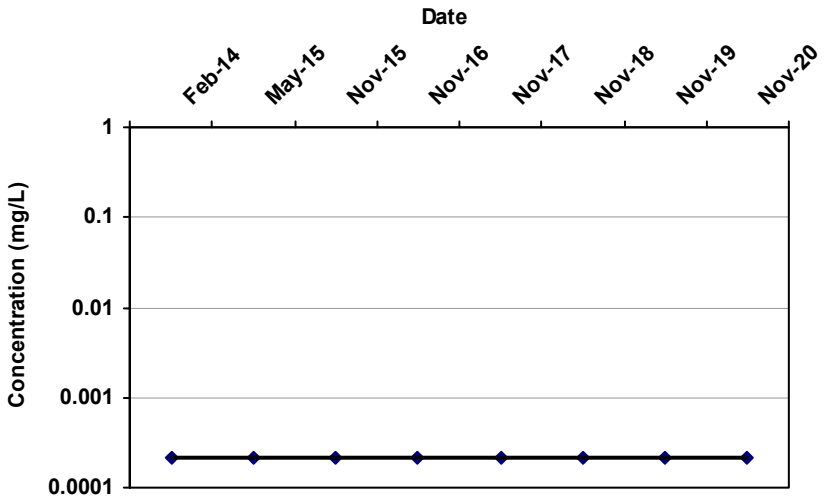
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-9D	T	2/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	5/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	11/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	11/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	11/15/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	11/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-9D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-10D **Time Period:** 3/10/2014 **to** 10/20/2020

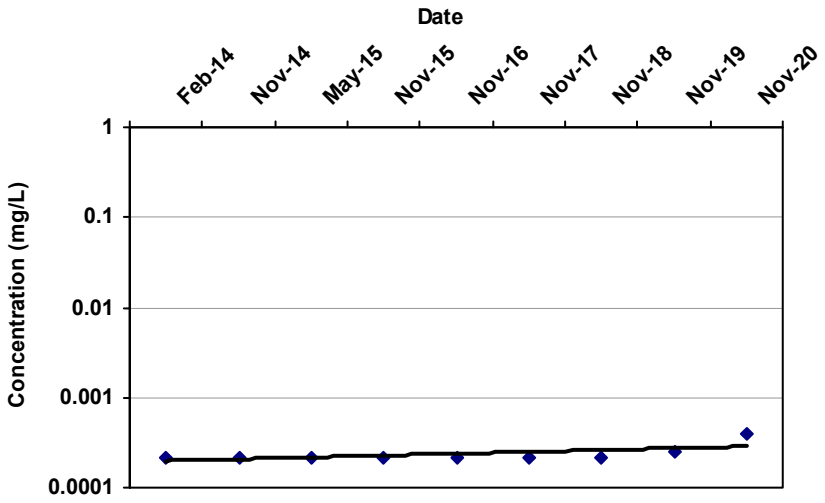
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.24

Confidence in Trend:

97.9%

Ln Slope:

1.6E-04

LR Concentration Trend:

I

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10D	T	2/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	11/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	5/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	11/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	11/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	11/15/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	11/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-10D	T	11/15/2019	TETRACHLOR	2.5E-04		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10D	T	11/15/2020	TETRACHLOR	4.0E-04		1	1

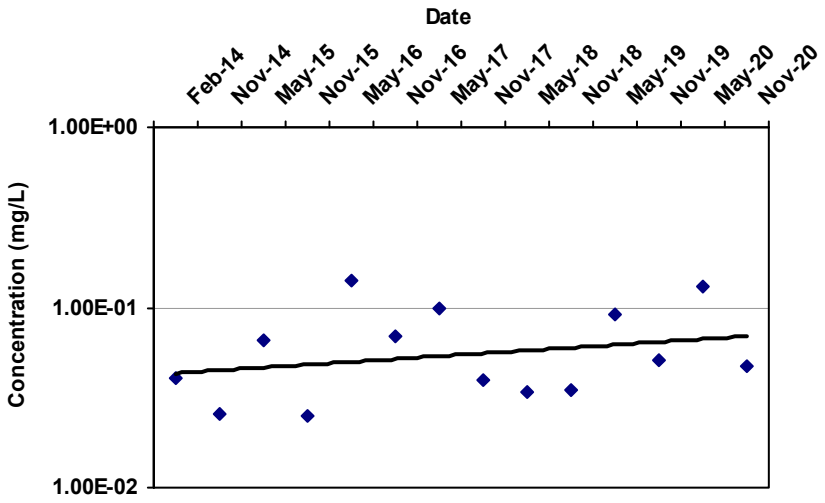
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well:	MW-12D	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	Quarterly
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Maximum
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.59

Confidence in Trend:

82.3%

Ln Slope:

2.0E-04

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-12D	T	2/15/2014	TETRACHLOR	4.1E-02		1	1
MW-12D	T	11/15/2014	TETRACHLOR	2.6E-02		1	1
MW-12D	T	5/15/2015	TETRACHLOR	6.6E-02		1	1
MW-12D	T	11/15/2015	TETRACHLOR	2.5E-02		1	1
MW-12D	T	5/15/2016	TETRACHLOR	1.4E-01		1	1
MW-12D	T	11/15/2016	TETRACHLOR	6.9E-02		1	1
MW-12D	T	5/15/2017	TETRACHLOR	9.9E-02		1	1
MW-12D	T	11/15/2017	TETRACHLOR	3.9E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-12D	T	5/15/2018	TETRACHLOR	3.4E-02		1	1
MW-12D	T	11/15/2018	TETRACHLOR	3.5E-02		1	1
MW-12D	T	5/15/2019	TETRACHLOR	9.2E-02		1	1
MW-12D	T	11/15/2019	TETRACHLOR	5.0E-02		1	1
MW-12D	T	5/15/2020	TETRACHLOR	1.3E-01		1	1
MW-12D	T	11/15/2020	TETRACHLOR	4.7E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-13D **Time Period:** 3/10/2014 **to** 10/20/2020

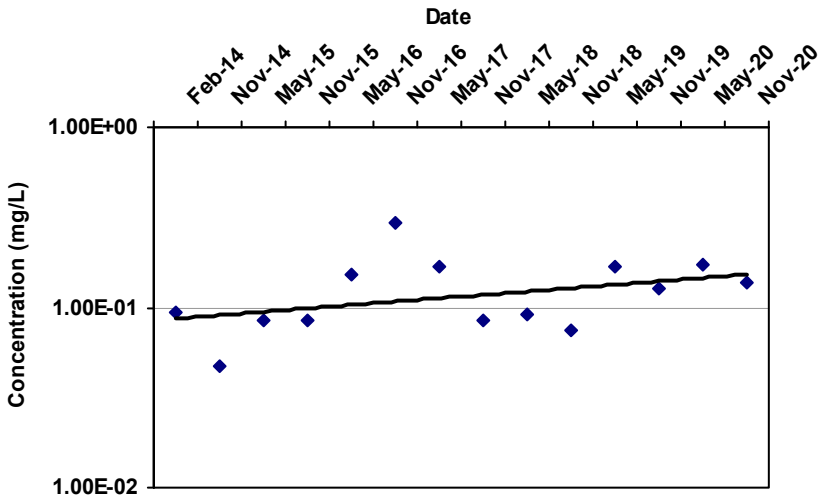
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.50

Confidence in Trend:

91.5%

Ln Slope:

2.3E-04

LR Concentration Trend:

PI

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-13D	T	2/15/2014	TETRACHLOR	9.4E-02		1	1
MW-13D	T	11/15/2014	TETRACHLOR	4.8E-02		1	1
MW-13D	T	5/15/2015	TETRACHLOR	8.5E-02		1	1
MW-13D	T	11/15/2015	TETRACHLOR	8.5E-02		1	1
MW-13D	T	5/15/2016	TETRACHLOR	1.5E-01		1	1
MW-13D	T	11/15/2016	TETRACHLOR	3.0E-01		1	1
MW-13D	T	5/15/2017	TETRACHLOR	1.7E-01		1	1
MW-13D	T	11/15/2017	TETRACHLOR	8.4E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-13D	T	5/15/2018	TETRACHLOR	9.3E-02		1	1
MW-13D	T	11/15/2018	TETRACHLOR	7.4E-02		1	1
MW-13D	T	5/15/2019	TETRACHLOR	1.7E-01		1	1
MW-13D	T	11/15/2019	TETRACHLOR	1.3E-01		1	1
MW-13D	T	5/15/2020	TETRACHLOR	1.7E-01		1	1
MW-13D	T	11/15/2020	TETRACHLOR	1.4E-01		1	1

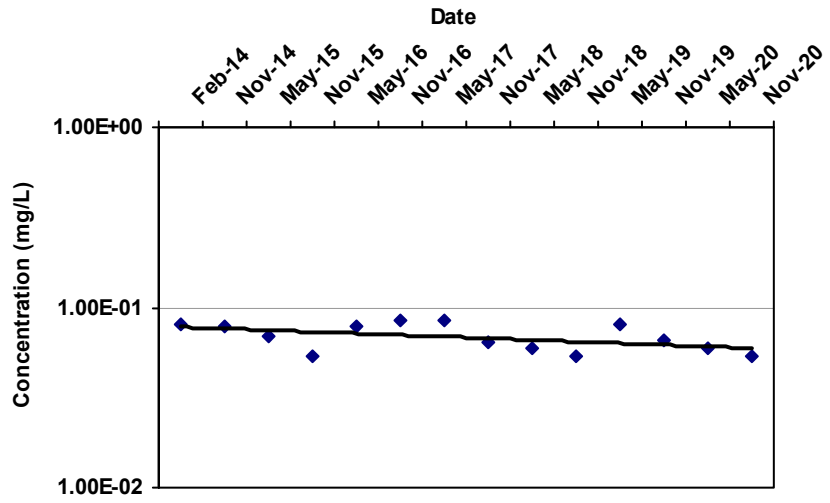
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-14D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Consolidation Type: Maximum
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



COV: 0.17

Confidence in Trend: 96.4%

Ln Slope: -1.1E-04

LR Concentration Trend: D

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14D	T	2/15/2014	TETRACHLOR	8.2E-02		1	1
MW-14D	T	11/15/2014	TETRACHLOR	7.9E-02		1	1
MW-14D	T	5/15/2015	TETRACHLOR	7.0E-02		1	1
MW-14D	T	11/15/2015	TETRACHLOR	5.3E-02		1	1
MW-14D	T	5/15/2016	TETRACHLOR	7.9E-02		1	1
MW-14D	T	11/15/2016	TETRACHLOR	8.4E-02		1	1
MW-14D	T	5/15/2017	TETRACHLOR	8.5E-02		1	1
MW-14D	T	11/15/2017	TETRACHLOR	6.3E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14D	T	5/15/2018	TETRACHLOR	6.0E-02		1	1
MW-14D	T	11/15/2018	TETRACHLOR	5.4E-02		1	1
MW-14D	T	5/15/2019	TETRACHLOR	8.1E-02		1	1
MW-14D	T	11/15/2019	TETRACHLOR	6.5E-02		1	1
MW-14D	T	5/15/2020	TETRACHLOR	6.0E-02		1	1
MW-14D	T	11/15/2020	TETRACHLOR	5.3E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-15D **Time Period:** 3/10/2014 **to** 10/20/2020

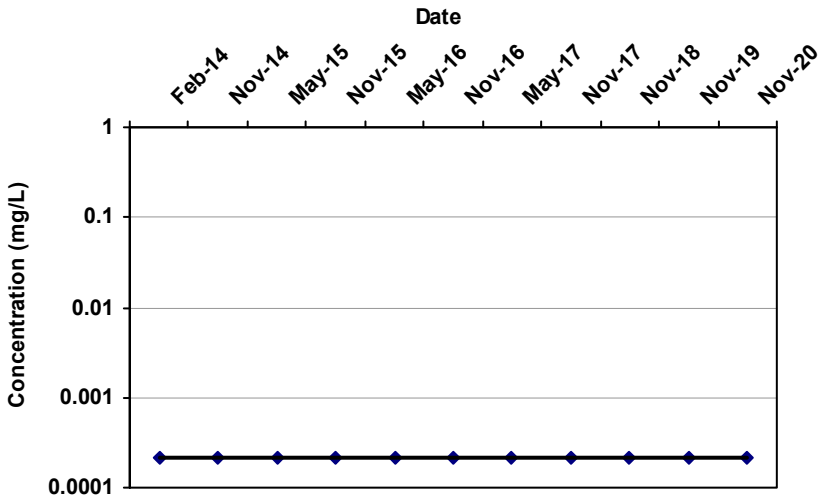
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15D	T	2/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	11/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	5/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	11/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	5/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	11/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	5/15/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	11/15/2017	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15D	T	11/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-15D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-16D **Time Period:** 3/10/2014 **to** 10/20/2020

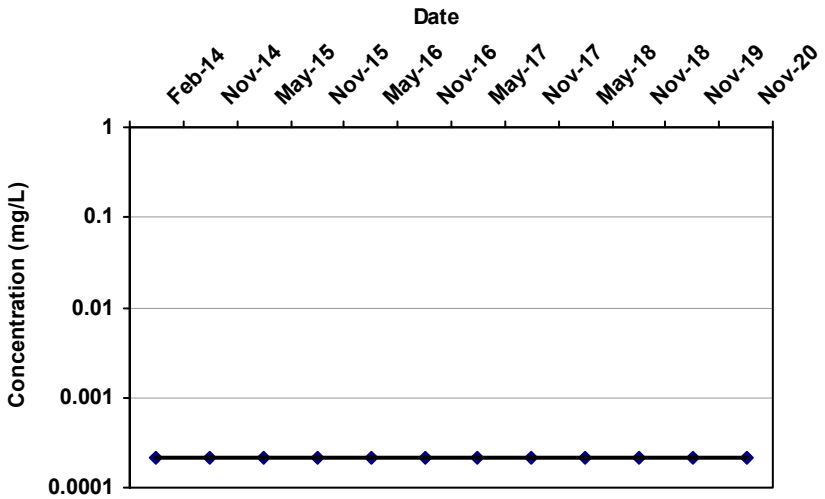
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16D	T	2/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	5/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	5/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	5/15/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2017	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16D	T	5/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-16D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-21D **Time Period:** 3/10/2014 **to** 10/20/2020

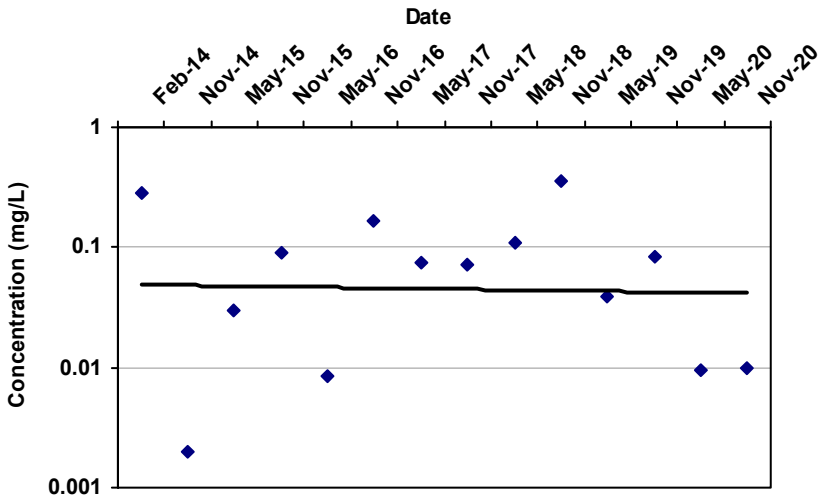
Well Type: S **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

1.12

Confidence in Trend:

56.2%

Ln Slope:

-8.8E-05

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21D	S	2/15/2014	TETRACHLOR	2.8E-01		1	1
MW-21D	S	11/15/2014	TETRACHLOR	2.0E-03		1	1
MW-21D	S	5/15/2015	TETRACHLOR	2.9E-02		1	1
MW-21D	S	11/15/2015	TETRACHLOR	9.1E-02		1	1
MW-21D	S	5/15/2016	TETRACHLOR	8.6E-03		1	1
MW-21D	S	11/15/2016	TETRACHLOR	1.7E-01		1	1
MW-21D	S	5/15/2017	TETRACHLOR	7.5E-02		1	1
MW-21D	S	11/15/2017	TETRACHLOR	7.3E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

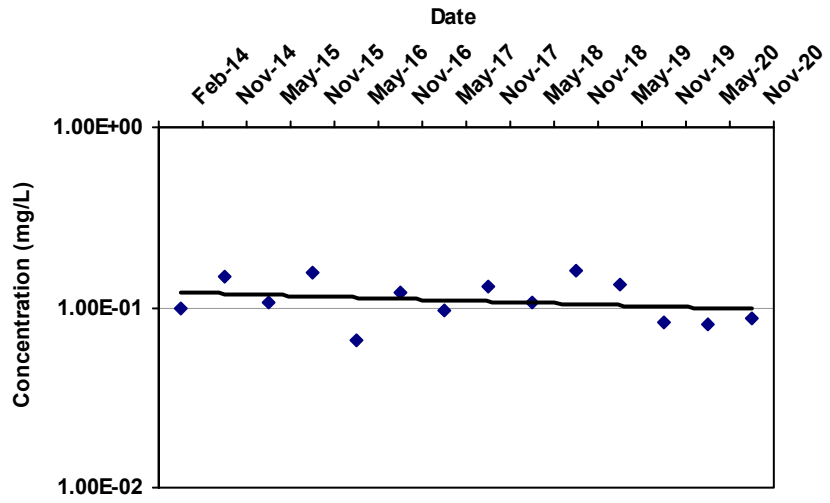
Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21D	S	5/15/2018	TETRACHLOR	1.1E-01		1	1
MW-21D	S	11/15/2018	TETRACHLOR	3.6E-01		1	1
MW-21D	S	5/15/2019	TETRACHLOR	3.9E-02		1	1
MW-21D	S	11/15/2019	TETRACHLOR	8.4E-02		1	1
MW-21D	S	5/15/2020	TETRACHLOR	9.6E-03		1	1
MW-21D	S	11/15/2020	TETRACHLOR	9.8E-03		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well:	MW-22D	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	Quarterly
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Maximum
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV: 0.26

Confidence in Trend: 80.7%

Ln Slope: -8.7E-05

LR Concentration Trend: S

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-22D	T	2/15/2014	TETRACHLOR	1.0E-01		1	1
MW-22D	T	11/15/2014	TETRACHLOR	1.5E-01		1	1
MW-22D	T	5/15/2015	TETRACHLOR	1.1E-01		1	1
MW-22D	T	11/15/2015	TETRACHLOR	1.6E-01		1	1
MW-22D	T	5/15/2016	TETRACHLOR	6.6E-02		1	1
MW-22D	T	11/15/2016	TETRACHLOR	1.2E-01		1	1
MW-22D	T	5/15/2017	TETRACHLOR	9.7E-02		1	1
MW-22D	T	11/15/2017	TETRACHLOR	1.3E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-22D	T	5/15/2018	TETRACHLOR	1.1E-01		1	1
MW-22D	T	11/15/2018	TETRACHLOR	1.6E-01		1	1
MW-22D	T	5/15/2019	TETRACHLOR	1.3E-01		1	1
MW-22D	T	11/15/2019	TETRACHLOR	8.2E-02		1	1
MW-22D	T	5/15/2020	TETRACHLOR	8.1E-02		1	1
MW-22D	T	11/15/2020	TETRACHLOR	8.8E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-23D **Time Period:** 3/10/2014 **to** 10/20/2020

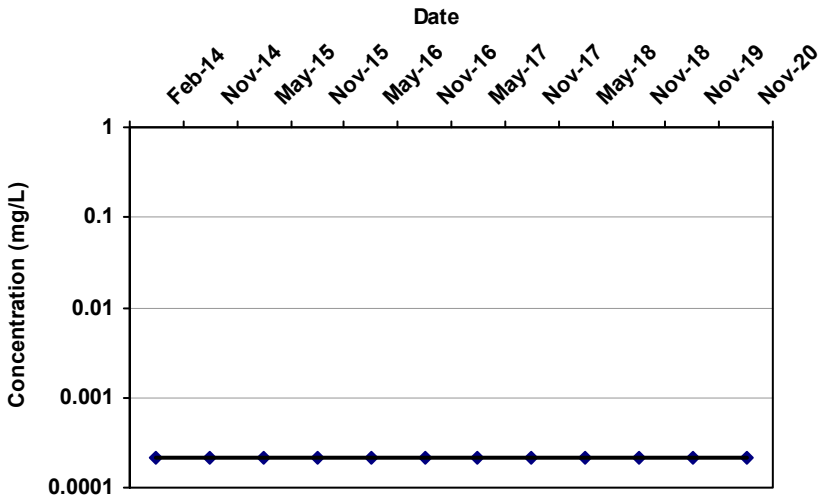
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.00

Confidence in Trend:

100.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

ND

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-23D	T	2/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2014	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	5/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2015	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	5/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2016	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	5/15/2017	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2017	TETRACHLOR	2.2E-04	ND	1	0

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-23D	T	5/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2018	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-23D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-25D **Time Period:** 3/10/2014 **to** 10/20/2020

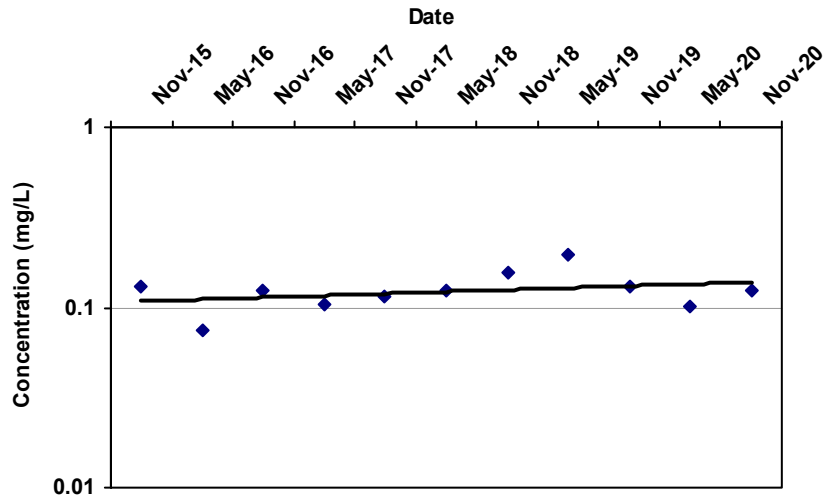
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.25

Confidence in Trend:

84.4%

Ln Slope:

1.3E-04

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-25D	T	11/15/2015	TETRACHLOR	1.3E-01		1	1
MW-25D	T	5/15/2016	TETRACHLOR	7.5E-02		1	1
MW-25D	T	11/15/2016	TETRACHLOR	1.3E-01		1	1
MW-25D	T	5/15/2017	TETRACHLOR	1.1E-01		1	1
MW-25D	T	11/15/2017	TETRACHLOR	1.2E-01		1	1
MW-25D	T	5/15/2018	TETRACHLOR	1.2E-01		1	1
MW-25D	T	11/15/2018	TETRACHLOR	1.6E-01		1	1
MW-25D	T	5/15/2019	TETRACHLOR	2.0E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-25D	T	11/15/2019	TETRACHLOR	1.3E-01		1	1
MW-25D	T	5/15/2020	TETRACHLOR	1.0E-01		1	1
MW-25D	T	11/15/2020	TETRACHLOR	1.2E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-26D **Time Period:** 3/10/2014 **to** 10/20/2020

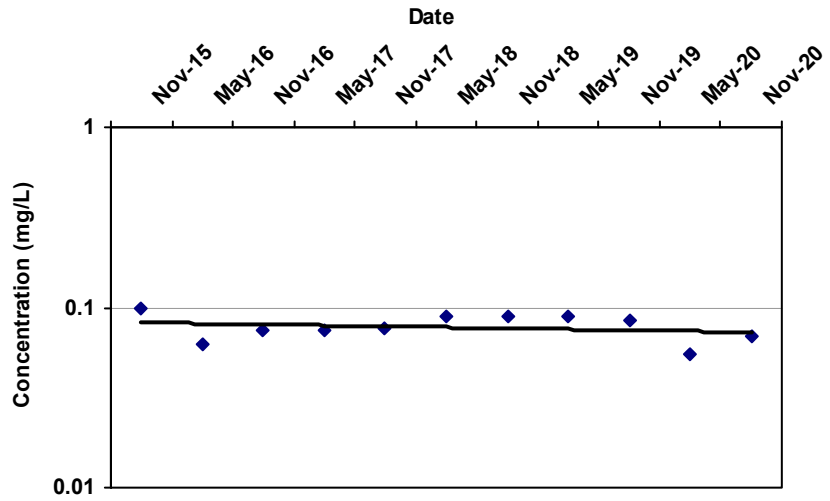
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.16

Confidence in Trend:

75.8%

Ln Slope:

-6.7E-05

LR Concentration Trend:

S

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-26D	T	11/15/2015	TETRACHLOR	9.8E-02		1	1
MW-26D	T	5/15/2016	TETRACHLOR	6.3E-02		1	1
MW-26D	T	11/15/2016	TETRACHLOR	7.5E-02		1	1
MW-26D	T	5/15/2017	TETRACHLOR	7.5E-02		1	1
MW-26D	T	11/15/2017	TETRACHLOR	7.6E-02		1	1
MW-26D	T	5/15/2018	TETRACHLOR	8.9E-02		1	1
MW-26D	T	11/15/2018	TETRACHLOR	9.0E-02		1	1
MW-26D	T	5/15/2019	TETRACHLOR	9.0E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-26D	T	11/15/2019	TETRACHLOR	8.4E-02		1	1
MW-26D	T	5/15/2020	TETRACHLOR	5.6E-02		1	1
MW-26D	T	11/15/2020	TETRACHLOR	6.9E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-30D **Time Period:** 3/10/2014 **to** 10/20/2020

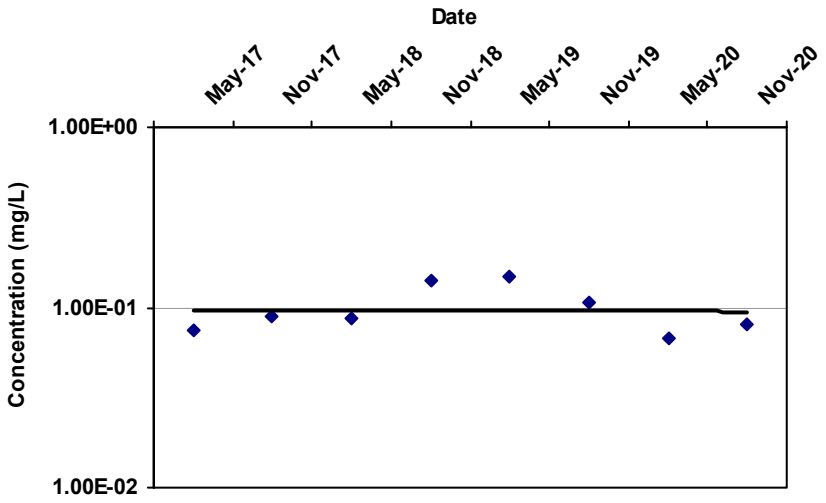
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.30

Confidence in Trend:

51.5%

Ln Slope:

-1.0E-05

LR Concentration Trend:

S

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-30D	T	5/15/2017	TETRACHLOR	7.5E-02		1	1
MW-30D	T	11/15/2017	TETRACHLOR	8.8E-02		1	1
MW-30D	T	5/15/2018	TETRACHLOR	8.7E-02		1	1
MW-30D	T	11/15/2018	TETRACHLOR	1.4E-01		1	1
MW-30D	T	5/15/2019	TETRACHLOR	1.5E-01		1	1
MW-30D	T	11/15/2019	TETRACHLOR	1.1E-01		1	1
MW-30D	T	5/15/2020	TETRACHLOR	6.8E-02		1	1
MW-30D	T	11/15/2020	TETRACHLOR	8.0E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-31D **Time Period:** 3/10/2014 **to** 10/20/2020

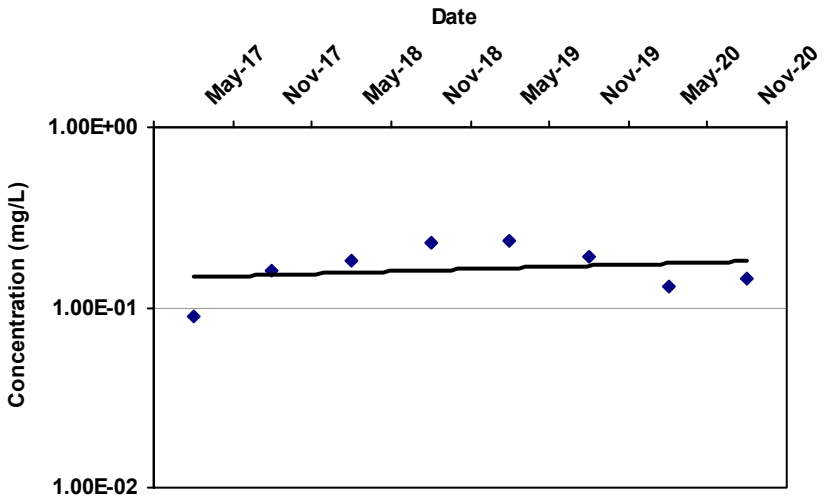
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Consolidation Type:** Maximum

Duplicate Consolidation: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



COV:

0.29

Confidence in Trend:

70.5%

Ln Slope:

1.6E-04

LR Concentration Trend:

NT

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-31D	T	5/15/2017	TETRACHLOR	8.9E-02		1	1
MW-31D	T	11/15/2017	TETRACHLOR	1.6E-01		1	1
MW-31D	T	5/15/2018	TETRACHLOR	1.8E-01		1	1
MW-31D	T	11/15/2018	TETRACHLOR	2.3E-01		1	1
MW-31D	T	5/15/2019	TETRACHLOR	2.3E-01		1	1
MW-31D	T	11/15/2019	TETRACHLOR	1.9E-01		1	1
MW-31D	T	5/15/2020	TETRACHLOR	1.3E-01		1	1
MW-31D	T	11/15/2020	TETRACHLOR	1.4E-01		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

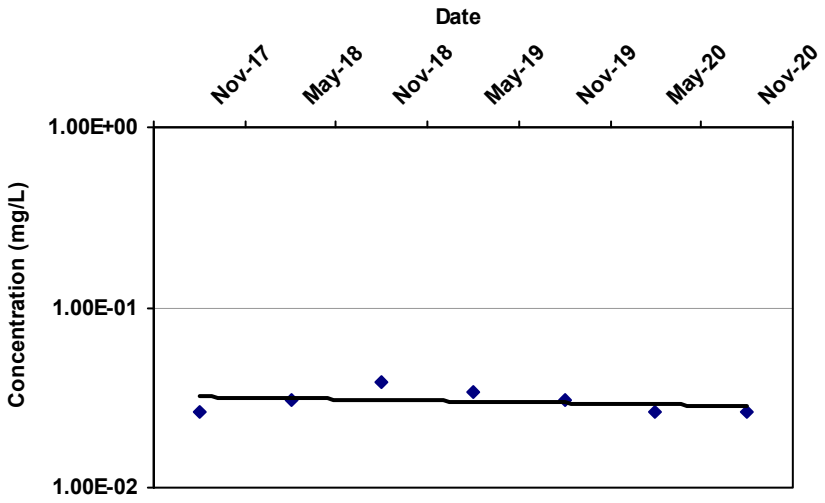
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well:	MW-32DR	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	Quarterly
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Maximum
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.16

Confidence in Trend:

73.2%

Ln Slope:

-1.1E-04

LR Concentration Trend:

S

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-32DR	T	11/15/2017	TETRACHLOR	2.6E-02		1	1
MW-32DR	T	5/15/2018	TETRACHLOR	3.0E-02		1	1
MW-32DR	T	11/15/2018	TETRACHLOR	3.9E-02		1	1
MW-32DR	T	5/15/2019	TETRACHLOR	3.4E-02		1	1
MW-32DR	T	11/15/2019	TETRACHLOR	3.1E-02		1	1
MW-32DR	T	5/15/2020	TETRACHLOR	2.6E-02		1	1
MW-32DR	T	11/15/2020	TETRACHLOR	2.6E-02		1	1

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

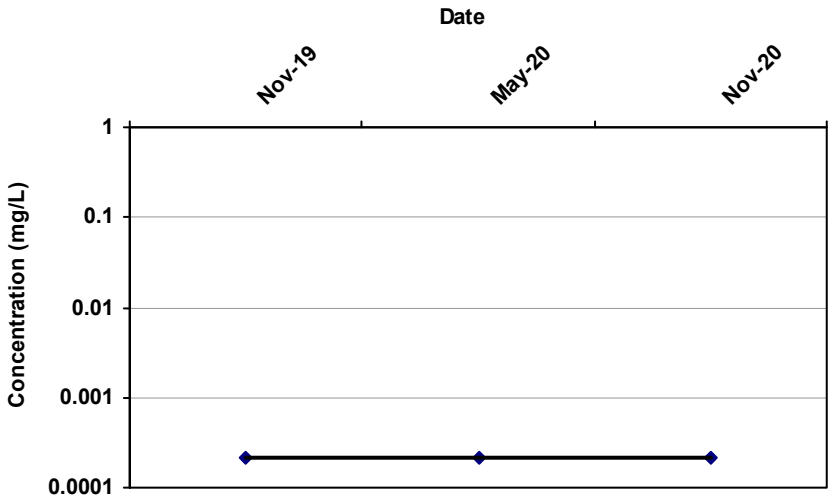
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-33D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Consolidation Type: Maximum
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



COV: 0.00

Confidence in Trend: 0.0%

Ln Slope: 0.0E+00

LR Concentration Trend: N/A

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-33D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-33D	T	5/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-33D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

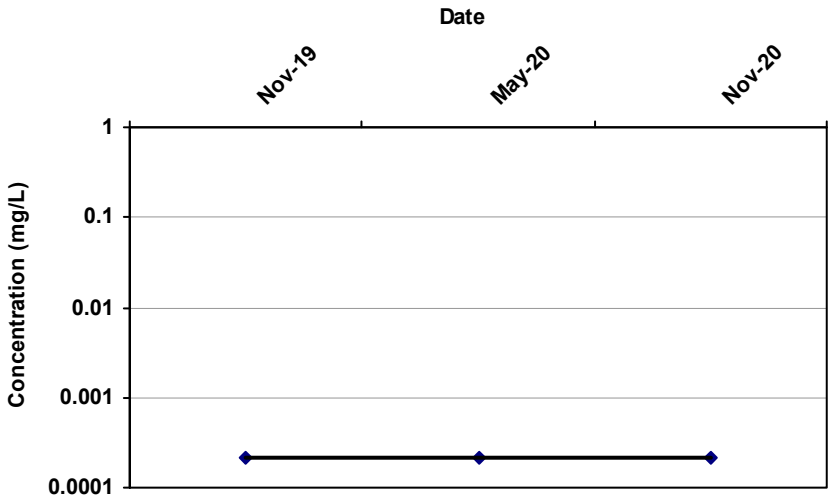
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-34D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Consolidation Type: Maximum
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



COV:
0.00

Confidence in Trend:
0.0%

Ln Slope:
0.0E+00

LR Concentration Trend:
N/A

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-34D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-34D	T	5/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-34D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

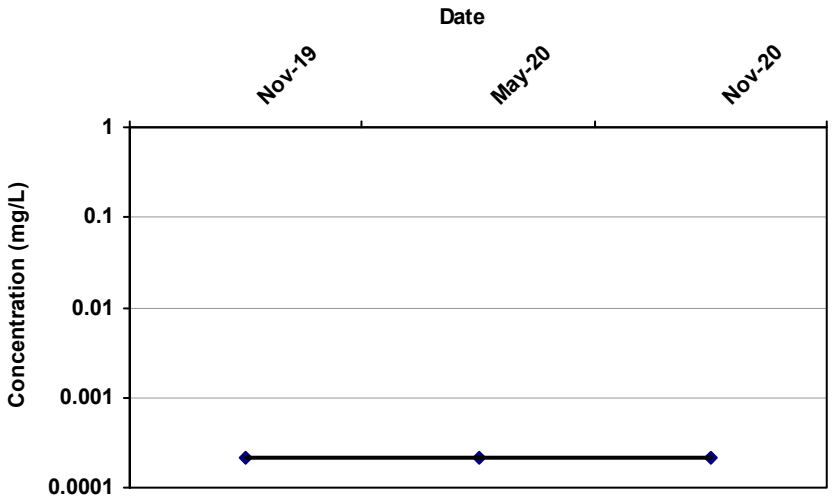
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-35D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Consolidation Type: Maximum
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



COV: 0.00

Confidence in Trend: 0.0%

Ln Slope: 0.0E+00

LR Concentration Trend: N/A

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-35D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-35D	T	5/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-35D	T	11/15/2020	TETRACHLOR	2.2E-04	ND	1	0

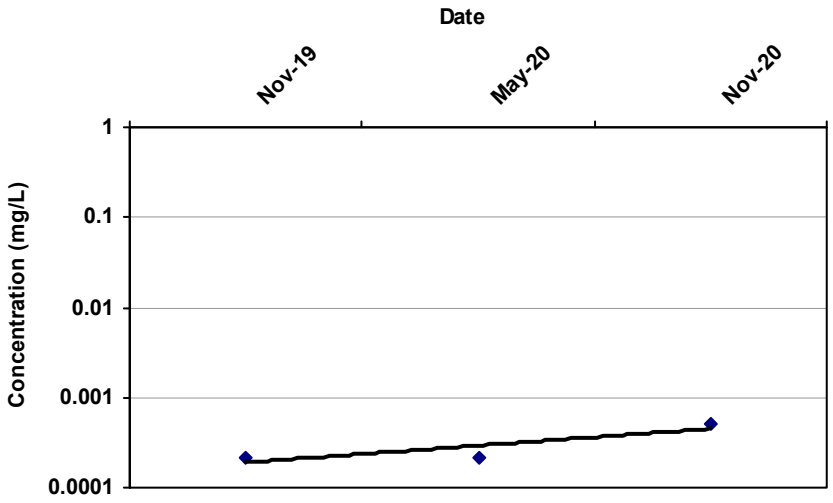
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

MAROS Linear Regression Statistics

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well:	MW-36D	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	Quarterly
COC:	TETRACHLOROETHYLENE(PCE)	**Consolidation Type:**	Maximum
		Duplicate Consolidation:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



COV:

0.00

Confidence in Trend:

0.0%

Ln Slope:

0.0E+00

LR Concentration Trend:

N/A

Consolidation Data Table:

Well	Well Type	Consolidation Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-36D	T	11/15/2019	TETRACHLOR	2.2E-04	ND	1	0
MW-36D	T	5/15/2020	TETRACHLOR	2.2E-04	ND	1	0
MW-36D	T	11/15/2020	TETRACHLOR	5.2E-04		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = All Samples are Non-detect

ATTACHMENT 2

Mann Kendall Summaries and Graphs

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies - Shallow Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: No Time Consolidation
Consolidation Type: Median
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
TETRACHLOROETHYLENE(PCE)								
MW-1	T	14	14	0.66	-49	99.7%	No	D
MW-10	T	14	14	1.64	29	93.7%	No	PI
MW-11	T	14	0	0.00	0	47.8%	Yes	ND
MW-14	T	14	9	0.71	7	62.6%	No	NT
MW-15	T	14	0	0.00	0	47.8%	Yes	ND
MW-16	T	14	0	0.00	0	47.8%	Yes	ND
MW-17	T	14	0	0.00	0	47.8%	Yes	ND
MW-18	T	14	0	0.00	0	47.8%	Yes	ND
MW-19	S	14	14	0.58	62	100.0%	No	I
MW-2	T	14	14	0.50	29	93.7%	No	PI
MW-20	S	13	13	0.29	-34	97.9%	No	D
MW-21	S	14	14	0.38	20	84.8%	No	NT
MW-24	T	11	11	0.35	27	98.0%	No	I
MW-27	T	8	2	0.81	-13	92.9%	No	PD
MW-28	T	8	1	0.03	-7	76.4%	No	S
MW-29	T	8	2	2.00	-13	92.9%	No	PD
MW-3	T	14	14	0.51	51	99.8%	No	I
MW-37	T	2	2	0.00	0	0.0%	No	N/A
MW-4	T	14	1	0.07	5	58.5%	No	NT
MW-5	T	14	14	1.95	-25	90.4%	No	PD
MW-6	T	14	0	0.00	0	47.8%	Yes	ND
MW-7	T	14	2	0.98	-9	66.6%	No	S
MW-8	T	14	14	0.97	49	99.7%	No	I
MW-9	T	14	14	0.75	-35	96.9%	No	D

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:**

Location: Bamberg **State:** South Carolina

TETRACHLOROETHYLENE(PCE)

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

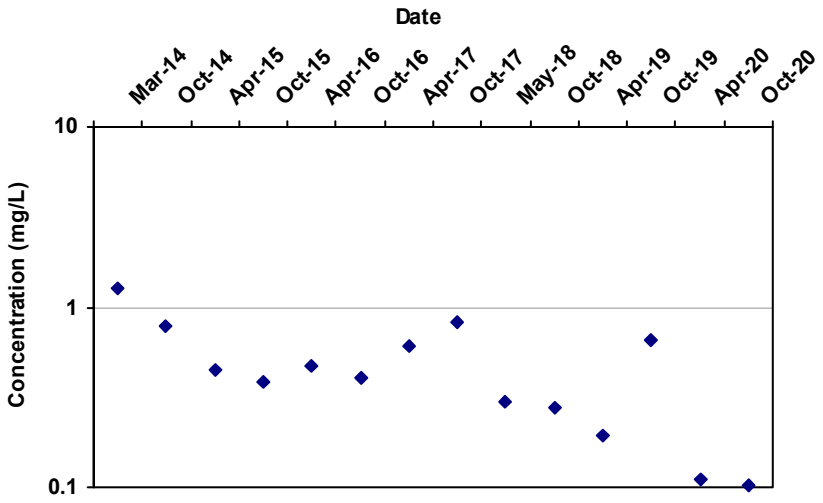
The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-1	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-49

Confidence in Trend:

99.7%

Coefficient of Variation:

0.66

Mann Kendall Concentration Trend: (See Note)

D

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-1	T	3/10/2014	TETRACHLOROETHYL	1.3E+00		1	1
MW-1	T	10/28/2014	TETRACHLOROETHYL	7.9E-01		1	1
MW-1	T	4/21/2015	TETRACHLOROETHYL	4.5E-01		1	1
MW-1	T	10/27/2015	TETRACHLOROETHYL	3.8E-01		1	1
MW-1	T	4/12/2016	TETRACHLOROETHYL	4.7E-01		1	1
MW-1	T	10/25/2016	TETRACHLOROETHYL	4.1E-01		1	1
MW-1	T	4/11/2017	TETRACHLOROETHYL	6.1E-01		1	1
MW-1	T	10/17/2017	TETRACHLOROETHYL	8.4E-01		1	1
MW-1	T	5/8/2018	TETRACHLOROETHYL	3.0E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-1	T	10/30/2018	TETRACHLOROETHYL	2.8E-01		1	1
MW-1	T	4/23/2019	TETRACHLOROETHYL	2.0E-01		1	1
MW-1	T	10/16/2019	TETRACHLOROETHYL	6.6E-01		1	1
MW-1	T	4/15/2020	TETRACHLOROETHYL	1.1E-01		1	1
MW-1	T	10/20/2020	TETRACHLOROETHYL	1.0E-01		1	1

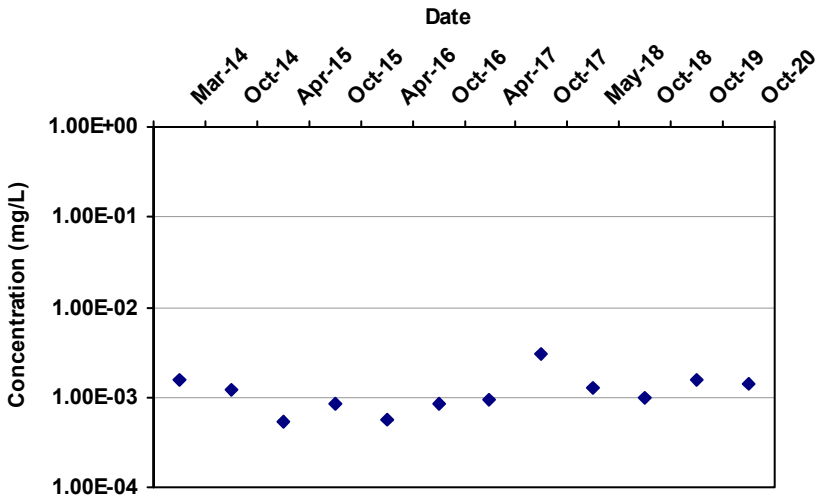
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-2	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

19

Confidence in Trend:

88.9%

Coefficient of Variation:

0.55

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-2	T	3/10/2014	TETRACHLOROETHYL	1.6E-03		1	1
MW-2	T	10/28/2014	TETRACHLOROETHYL	1.2E-03		1	1
MW-2	T	4/21/2015	TETRACHLOROETHYL	5.3E-04		1	1
MW-2	T	10/27/2015	TETRACHLOROETHYL	8.5E-04		1	1
MW-2	T	4/12/2016	TETRACHLOROETHYL	5.7E-04		1	1
MW-2	T	10/25/2016	TETRACHLOROETHYL	8.3E-04		1	1
MW-2	T	4/11/2017	TETRACHLOROETHYL	9.2E-04		1	1
MW-2	T	10/17/2017	TETRACHLOROETHYL	3.1E-03		1	1
MW-2	T	5/8/2018	TETRACHLOROETHYL	1.3E-03		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-2	T	10/30/2018	TETRACHLOROETHYL	1.0E-03		1	1
MW-2	T	10/16/2019	TETRACHLOROETHYL	1.6E-03		1	1
MW-2	T	10/20/2020	TETRACHLOROETHYL	1.4E-03		1	1

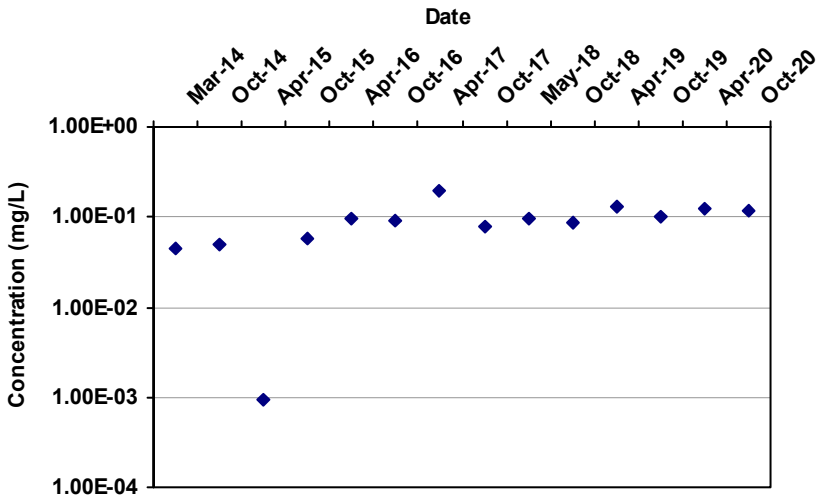
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-3	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

51

Confidence in Trend:

99.8%

Coefficient of Variation:

0.51

Mann Kendall Concentration Trend: (See Note)

I

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3	T	3/10/2014	TETRACHLOROETHYL	4.5E-02		1	1
MW-3	T	10/28/2014	TETRACHLOROETHYL	5.0E-02		1	1
MW-3	T	4/21/2015	TETRACHLOROETHYL	9.2E-04		1	1
MW-3	T	10/27/2015	TETRACHLOROETHYL	5.7E-02		1	1
MW-3	T	4/12/2016	TETRACHLOROETHYL	9.8E-02		1	1
MW-3	T	10/25/2016	TETRACHLOROETHYL	9.2E-02		1	1
MW-3	T	4/11/2017	TETRACHLOROETHYL	2.0E-01		1	1
MW-3	T	10/17/2017	TETRACHLOROETHYL	7.7E-02		1	1
MW-3	T	5/8/2018	TETRACHLOROETHYL	9.5E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3	T	10/30/2018	TETRACHLOROETHYL	8.7E-02		1	1
MW-3	T	4/23/2019	TETRACHLOROETHYL	1.3E-01		1	1
MW-3	T	10/16/2019	TETRACHLOROETHYL	9.9E-02		1	1
MW-3	T	4/15/2020	TETRACHLOROETHYL	1.2E-01		1	1
MW-3	T	10/20/2020	TETRACHLOROETHYL	1.2E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well: MW-4 **Time Period:** 3/10/2014 **to** 10/20/2020

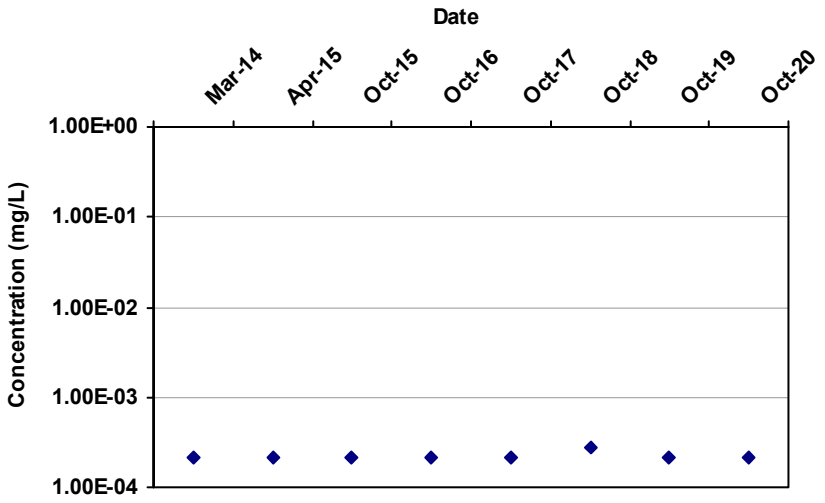
Well Type: T **Consolidation Period:** No Time Consolidation

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Average

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

3

Confidence in Trend:

59.4%

Coefficient of Variation:

0.09

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-4	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-4	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-4	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-4	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-4	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-4	T	10/30/2018	TETRACHLOROETHYL	2.8E-04		1	1
MW-4	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-4	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

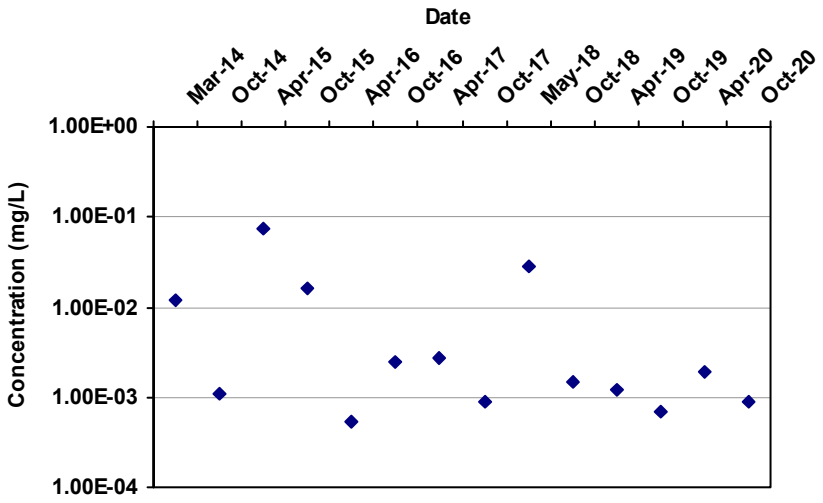
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-5	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-25

Confidence in Trend:

90.4%

Coefficient of Variation:

1.95

Mann Kendall Concentration Trend: (See Note)

PD

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-5	T	3/10/2014	TETRACHLOROETHYL	1.2E-02		1	1
MW-5	T	10/28/2014	TETRACHLOROETHYL	1.1E-03		1	1
MW-5	T	4/21/2015	TETRACHLOROETHYL	7.4E-02		1	1
MW-5	T	10/27/2015	TETRACHLOROETHYL	1.6E-02		1	1
MW-5	T	4/12/2016	TETRACHLOROETHYL	5.3E-04		1	1
MW-5	T	10/25/2016	TETRACHLOROETHYL	2.5E-03		1	1
MW-5	T	4/11/2017	TETRACHLOROETHYL	2.7E-03		1	1
MW-5	T	10/17/2017	TETRACHLOROETHYL	8.7E-04		1	1
MW-5	T	5/8/2018	TETRACHLOROETHYL	2.8E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-5	T	10/30/2018	TETRACHLOROETHYL	1.5E-03		1	1
MW-5	T	4/23/2019	TETRACHLOROETHYL	1.2E-03		1	1
MW-5	T	10/16/2019	TETRACHLOROETHYL	6.9E-04		1	1
MW-5	T	4/15/2020	TETRACHLOROETHYL	1.9E-03		1	1
MW-5	T	10/20/2020	TETRACHLOROETHYL	8.9E-04		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well: MW-6 **Time Period:** 3/10/2014 **to** 10/20/2020

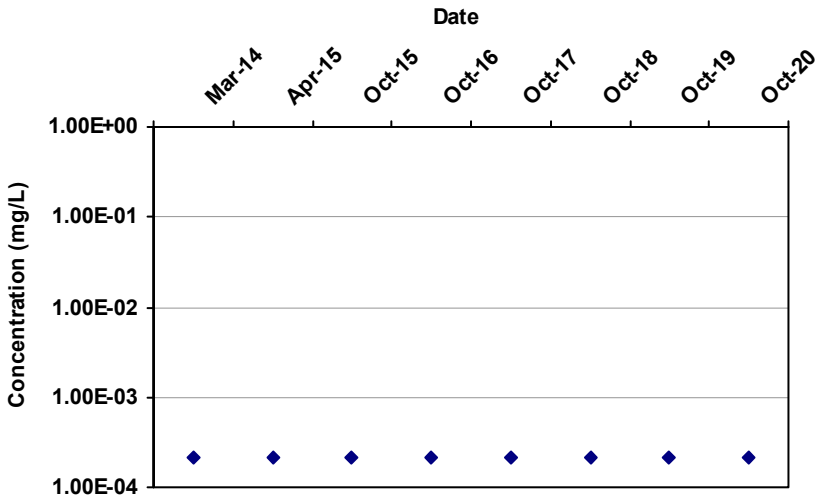
Well Type: T **Consolidation Period:** No Time Consolidation

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Average

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

45.2%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-6	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-6	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

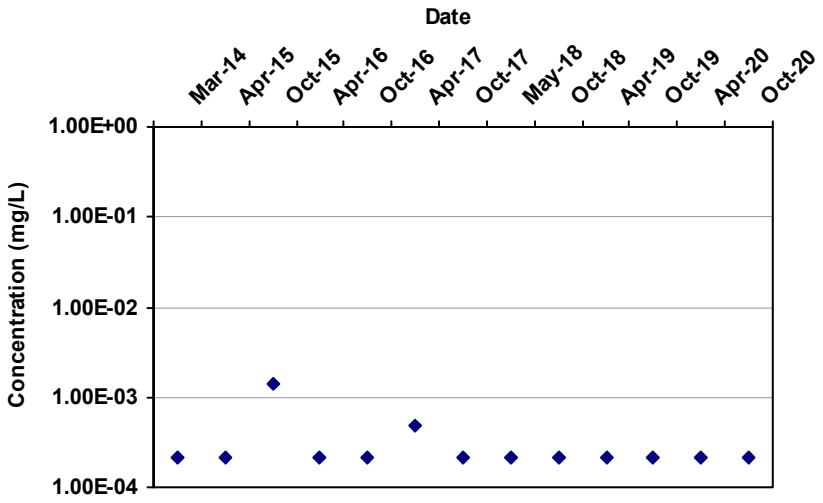
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-7	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-11

Confidence in Trend:

72.5%

Coefficient of Variation:

0.99

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-7	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	10/27/2015	TETRACHLOROETHYL	1.4E-03		1	1
MW-7	T	4/12/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	4/11/2017	TETRACHLOROETHYL	4.9E-04		1	1
MW-7	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	5/8/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-7	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-7	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

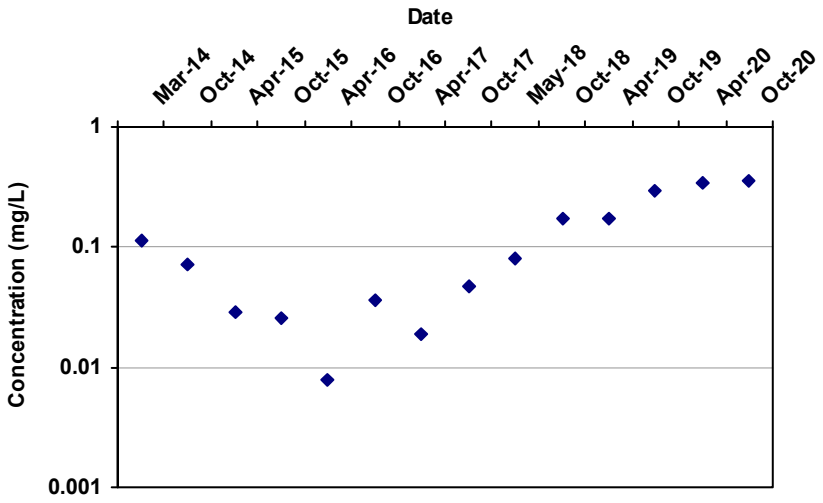
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-8	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

49

Confidence in Trend:

99.7%

Coefficient of Variation:

0.97

Mann Kendall Concentration Trend: (See Note)

I

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-8	T	3/10/2014	TETRACHLOROETHYL	1.1E-01		1	1
MW-8	T	10/28/2014	TETRACHLOROETHYL	7.1E-02		1	1
MW-8	T	4/21/2015	TETRACHLOROETHYL	2.9E-02		1	1
MW-8	T	10/27/2015	TETRACHLOROETHYL	2.6E-02		1	1
MW-8	T	4/12/2016	TETRACHLOROETHYL	7.8E-03		1	1
MW-8	T	10/25/2016	TETRACHLOROETHYL	3.6E-02		1	1
MW-8	T	4/11/2017	TETRACHLOROETHYL	1.9E-02		1	1
MW-8	T	10/17/2017	TETRACHLOROETHYL	4.8E-02		1	1
MW-8	T	5/8/2018	TETRACHLOROETHYL	8.2E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-8	T	10/30/2018	TETRACHLOROETHYL	1.8E-01		1	1
MW-8	T	4/23/2019	TETRACHLOROETHYL	1.7E-01		1	1
MW-8	T	10/16/2019	TETRACHLOROETHYL	3.0E-01		1	1
MW-8	T	4/15/2020	TETRACHLOROETHYL	3.5E-01		1	1
MW-8	T	10/20/2020	TETRACHLOROETHYL	3.6E-01		1	1

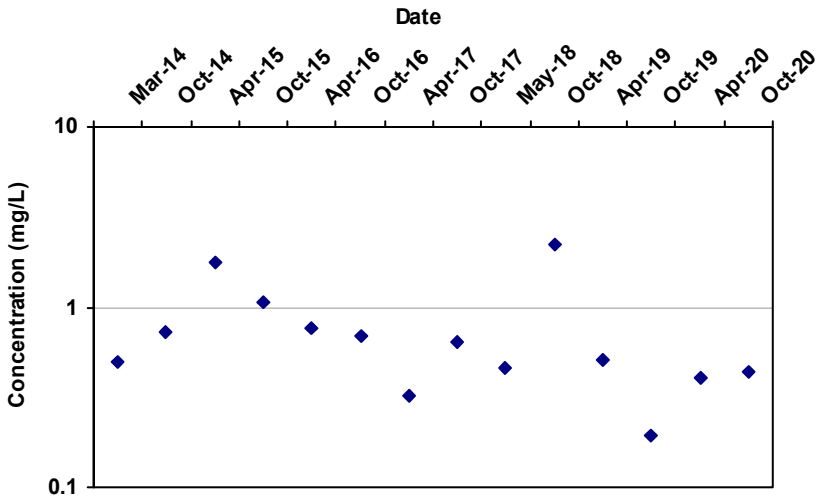
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-9	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-35

Confidence in Trend:

96.9%

Coefficient of Variation:

0.75

Mann Kendall Concentration Trend: (See Note)

D

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-9	T	3/10/2014	TETRACHLOROETHYL	5.0E-01		1	1
MW-9	T	10/28/2014	TETRACHLOROETHYL	7.3E-01		1	1
MW-9	T	4/21/2015	TETRACHLOROETHYL	1.8E+00		1	1
MW-9	T	10/27/2015	TETRACHLOROETHYL	1.1E+00		1	1
MW-9	T	4/12/2016	TETRACHLOROETHYL	7.7E-01		1	1
MW-9	T	10/25/2016	TETRACHLOROETHYL	6.9E-01		1	1
MW-9	T	4/11/2017	TETRACHLOROETHYL	3.3E-01		1	1
MW-9	T	10/17/2017	TETRACHLOROETHYL	6.5E-01		1	1
MW-9	T	5/8/2018	TETRACHLOROETHYL	4.7E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-9	T	10/30/2018	TETRACHLOROETHYL	2.2E+00		1	1
MW-9	T	4/23/2019	TETRACHLOROETHYL	5.1E-01		1	1
MW-9	T	10/16/2019	TETRACHLOROETHYL	1.9E-01		1	1
MW-9	T	4/15/2020	TETRACHLOROETHYL	4.0E-01		1	1
MW-9	T	10/20/2020	TETRACHLOROETHYL	4.4E-01		1	1

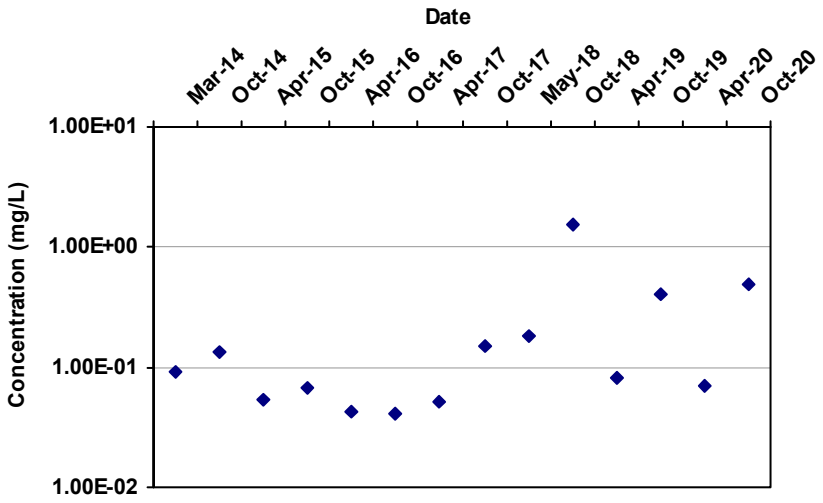
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-10	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

29

Confidence in Trend:

93.7%

Coefficient of Variation:

1.64

Mann Kendall Concentration Trend: (See Note)

PI

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10	T	3/10/2014	TETRACHLOROETHYL	9.3E-02		1	1
MW-10	T	10/28/2014	TETRACHLOROETHYL	1.4E-01		1	1
MW-10	T	4/21/2015	TETRACHLOROETHYL	5.4E-02		1	1
MW-10	T	10/27/2015	TETRACHLOROETHYL	6.6E-02		1	1
MW-10	T	4/12/2016	TETRACHLOROETHYL	4.3E-02		1	1
MW-10	T	10/25/2016	TETRACHLOROETHYL	4.1E-02		1	1
MW-10	T	4/11/2017	TETRACHLOROETHYL	5.2E-02		1	1
MW-10	T	10/17/2017	TETRACHLOROETHYL	1.5E-01		1	1
MW-10	T	5/8/2018	TETRACHLOROETHYL	1.8E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10	T	10/30/2018	TETRACHLOROETHYL	1.6E+00		1	1
MW-10	T	4/23/2019	TETRACHLOROETHYL	8.3E-02		1	1
MW-10	T	10/16/2019	TETRACHLOROETHYL	4.1E-01		1	1
MW-10	T	4/15/2020	TETRACHLOROETHYL	7.0E-02		1	1
MW-10	T	10/20/2020	TETRACHLOROETHYL	4.9E-01		1	1

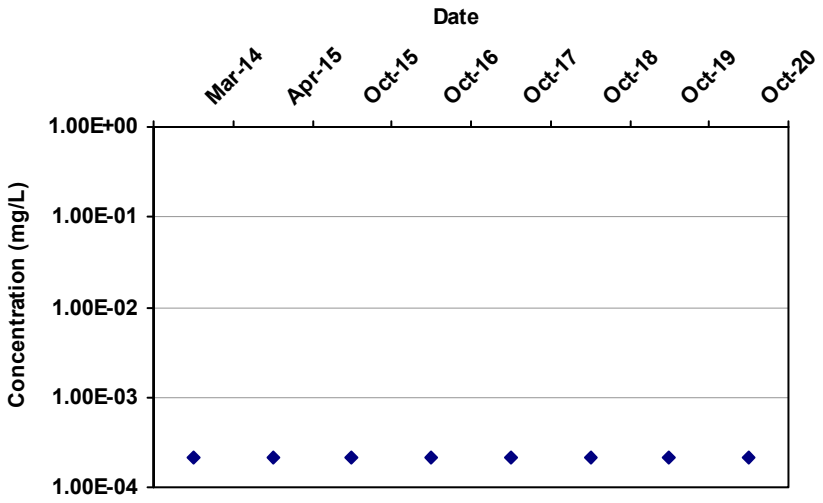
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-11	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

45.2%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-11	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-11	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

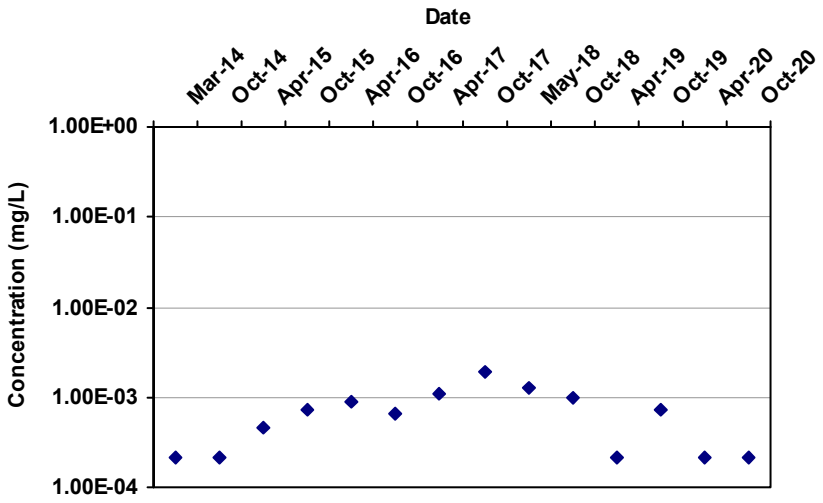
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-14	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

7

Confidence in Trend:

62.6%

Coefficient of Variation:

0.71

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-14	T	10/28/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-14	T	4/21/2015	TETRACHLOROETHYL	4.6E-04		1	1
MW-14	T	10/27/2015	TETRACHLOROETHYL	7.2E-04		1	1
MW-14	T	4/12/2016	TETRACHLOROETHYL	9.0E-04		1	1
MW-14	T	10/25/2016	TETRACHLOROETHYL	6.6E-04		1	1
MW-14	T	4/11/2017	TETRACHLOROETHYL	1.1E-03		1	1
MW-14	T	10/17/2017	TETRACHLOROETHYL	1.9E-03		1	1
MW-14	T	5/8/2018	TETRACHLOROETHYL	1.3E-03		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14	T	10/30/2018	TETRACHLOROETHYL	1.0E-03		1	1
MW-14	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-14	T	10/16/2019	TETRACHLOROETHYL	7.4E-04		1	1
MW-14	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-14	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

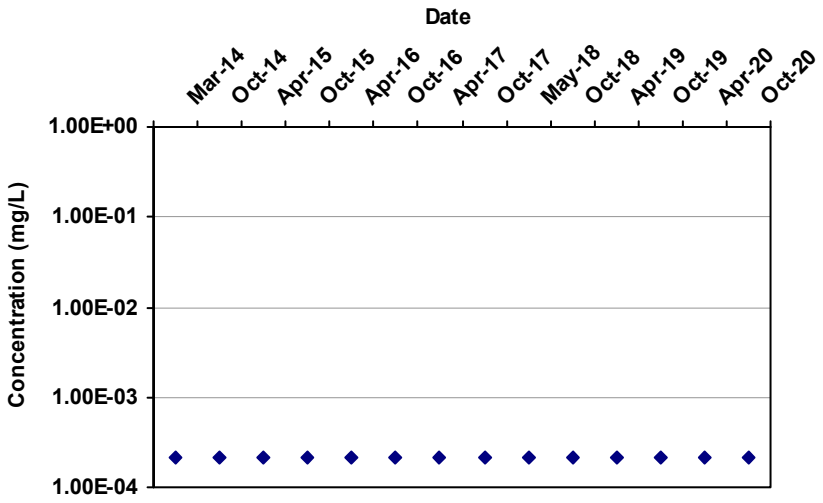
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-15	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

47.8%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	10/28/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	4/12/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	4/11/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	5/8/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

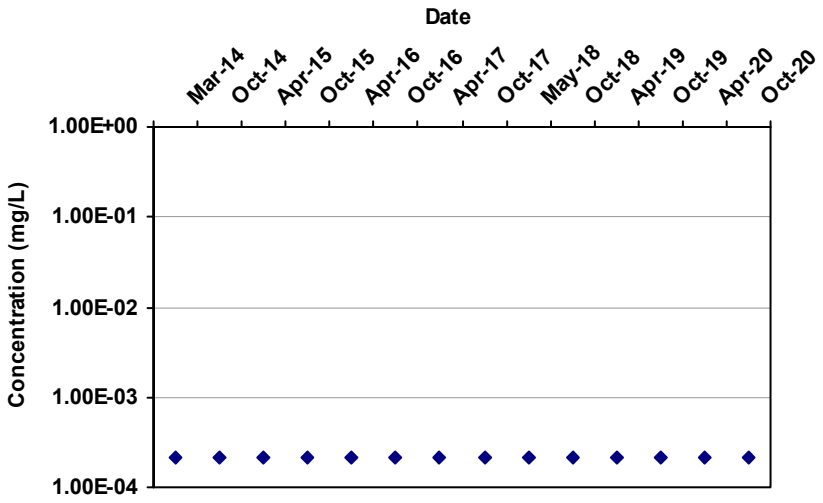
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-16	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

47.8%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	10/28/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	4/12/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	4/11/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	5/8/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

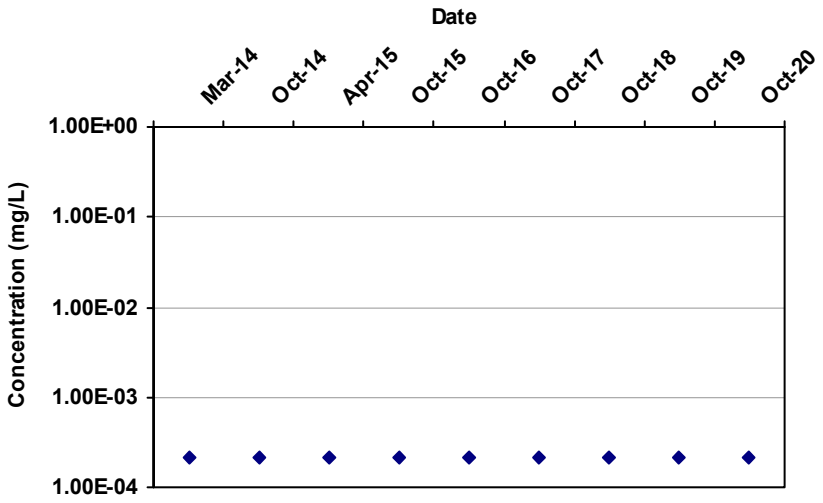
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-17	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

46.0%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-17	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/28/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-17	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

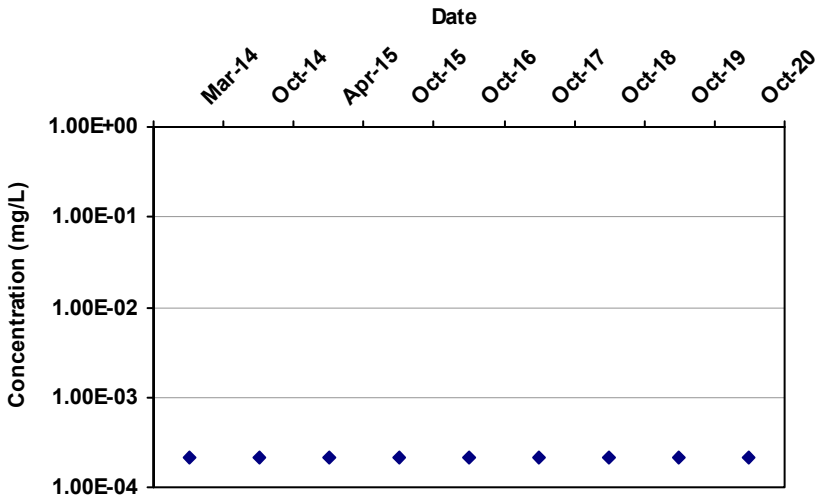
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-18	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

46.0%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-18	T	3/10/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/28/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	4/21/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/27/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/25/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-18	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

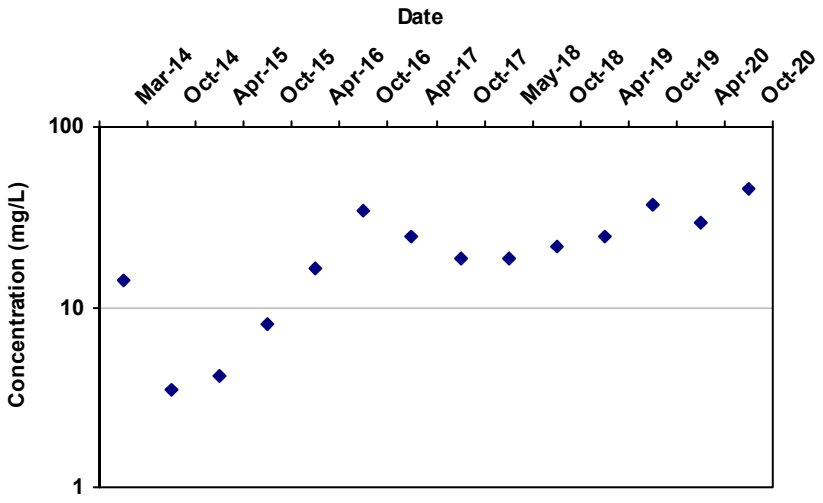
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-19	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	S	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

62

Confidence in Trend:

100.0%

Coefficient of Variation:

0.58

Mann Kendall Concentration Trend: (See Note)

I

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-19	S	3/10/2014	TETRACHLOROETHYL	1.4E+01		1	1
MW-19	S	10/28/2014	TETRACHLOROETHYL	3.5E+00		1	1
MW-19	S	4/21/2015	TETRACHLOROETHYL	4.2E+00		1	1
MW-19	S	10/27/2015	TETRACHLOROETHYL	8.0E+00		1	1
MW-19	S	4/12/2016	TETRACHLOROETHYL	1.7E+01		1	1
MW-19	S	10/25/2016	TETRACHLOROETHYL	3.5E+01		1	1
MW-19	S	4/11/2017	TETRACHLOROETHYL	2.5E+01		1	1
MW-19	S	10/17/2017	TETRACHLOROETHYL	1.9E+01		1	1
MW-19	S	5/8/2018	TETRACHLOROETHYL	1.9E+01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-19	S	10/30/2018	TETRACHLOROETHYL	2.2E+01		1	1
MW-19	S	4/23/2019	TETRACHLOROETHYL	2.4E+01		1	1
MW-19	S	10/16/2019	TETRACHLOROETHYL	3.7E+01		1	1
MW-19	S	4/15/2020	TETRACHLOROETHYL	3.0E+01		1	1
MW-19	S	10/20/2020	TETRACHLOROETHYL	4.6E+01		1	1

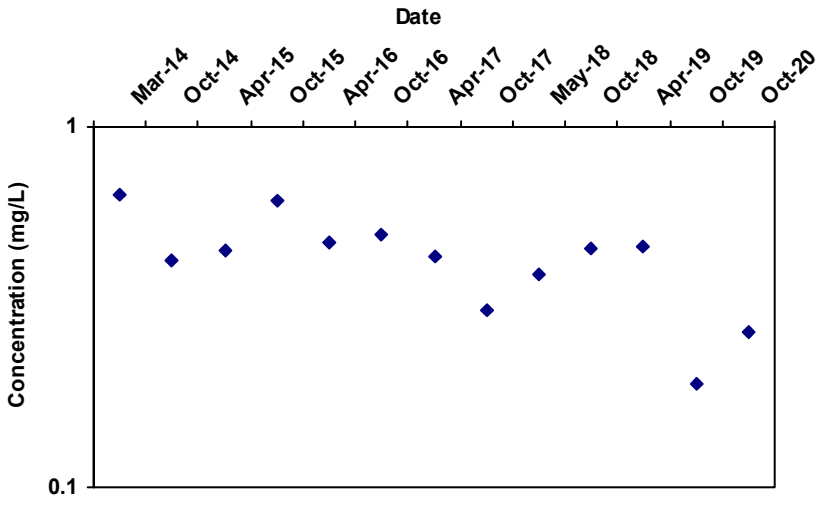
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-20	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	S	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-34

Confidence in Trend:

97.9%

Coefficient of Variation:

0.29

Mann Kendall Concentration Trend: (See Note)

D

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-20	S	3/10/2014	TETRACHLOROETHYL	6.5E-01		1	1
MW-20	S	10/28/2014	TETRACHLOROETHYL	4.3E-01		1	1
MW-20	S	4/21/2015	TETRACHLOROETHYL	4.5E-01		1	1
MW-20	S	10/27/2015	TETRACHLOROETHYL	6.2E-01		1	1
MW-20	S	4/12/2016	TETRACHLOROETHYL	4.8E-01		1	1
MW-20	S	10/25/2016	TETRACHLOROETHYL	5.0E-01		1	1
MW-20	S	4/11/2017	TETRACHLOROETHYL	4.4E-01		1	1
MW-20	S	10/17/2017	TETRACHLOROETHYL	3.1E-01		1	1
MW-20	S	5/8/2018	TETRACHLOROETHYL	3.9E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-20	S	10/30/2018	TETRACHLOROETHYL	4.6E-01		1	1
MW-20	S	4/23/2019	TETRACHLOROETHYL	4.7E-01		1	1
MW-20	S	10/16/2019	TETRACHLOROETHYL	1.9E-01		1	1
MW-20	S	10/20/2020	TETRACHLOROETHYL	2.7E-01		1	1

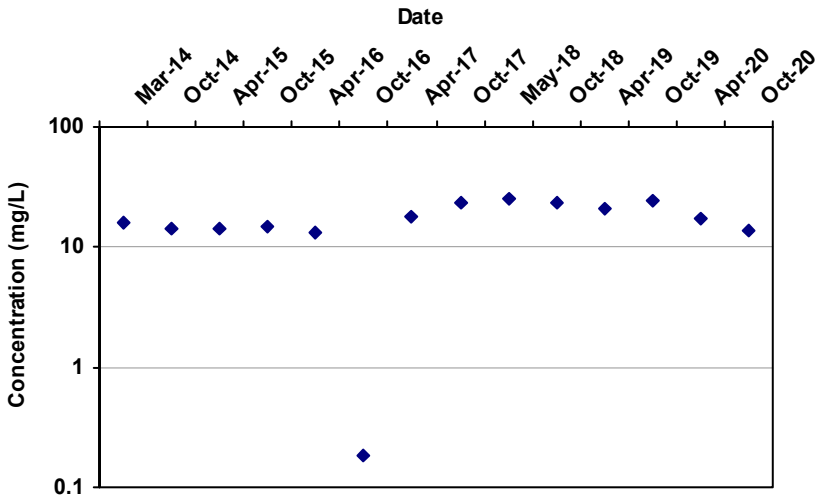
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-21	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	S	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

20

Confidence in Trend:

84.8%

Coefficient of Variation:

0.38

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21	S	3/10/2014	TETRACHLOROETHYL	1.6E+01		1	1
MW-21	S	10/28/2014	TETRACHLOROETHYL	1.5E+01		1	1
MW-21	S	4/21/2015	TETRACHLOROETHYL	1.5E+01		1	1
MW-21	S	10/27/2015	TETRACHLOROETHYL	1.5E+01		1	1
MW-21	S	4/12/2016	TETRACHLOROETHYL	1.3E+01		1	1
MW-21	S	10/25/2016	TETRACHLOROETHYL	1.8E-01		1	1
MW-21	S	4/11/2017	TETRACHLOROETHYL	1.8E+01		1	1
MW-21	S	10/17/2017	TETRACHLOROETHYL	2.4E+01		1	1
MW-21	S	5/8/2018	TETRACHLOROETHYL	2.6E+01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21	S	10/30/2018	TETRACHLOROETHYL	2.3E+01		1	1
MW-21	S	4/23/2019	TETRACHLOROETHYL	2.1E+01		1	1
MW-21	S	10/16/2019	TETRACHLOROETHYL	2.4E+01		1	1
MW-21	S	4/15/2020	TETRACHLOROETHYL	1.8E+01		1	1
MW-21	S	10/20/2020	TETRACHLOROETHYL	1.4E+01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well: MW-24 **Time Period:** 3/10/2014 **to** 10/20/2020

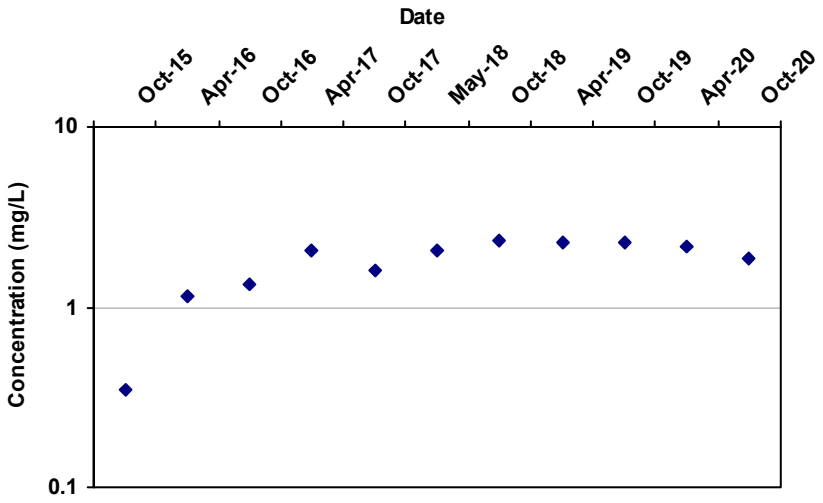
Well Type: T **Consolidation Period:** No Time Consolidation

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Average

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

27

Confidence in Trend:

98.0%

Coefficient of Variation:

0.35

Mann Kendall Concentration Trend: (See Note)

I

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-24	T	10/27/2015	TETRACHLOROETHYL	3.4E-01		1	1
MW-24	T	4/12/2016	TETRACHLOROETHYL	1.2E+00		1	1
MW-24	T	10/25/2016	TETRACHLOROETHYL	1.3E+00		1	1
MW-24	T	4/11/2017	TETRACHLOROETHYL	2.1E+00		1	1
MW-24	T	10/17/2017	TETRACHLOROETHYL	1.6E+00		1	1
MW-24	T	5/8/2018	TETRACHLOROETHYL	2.1E+00		1	1
MW-24	T	10/30/2018	TETRACHLOROETHYL	2.3E+00		1	1
MW-24	T	4/23/2019	TETRACHLOROETHYL	2.3E+00		1	1
MW-24	T	10/16/2019	TETRACHLOROETHYL	2.3E+00		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-24	T	4/15/2020	TETRACHLOROETHYL	2.2E+00		1	1
MW-24	T	10/20/2020	TETRACHLOROETHYL	1.9E+00		1	1

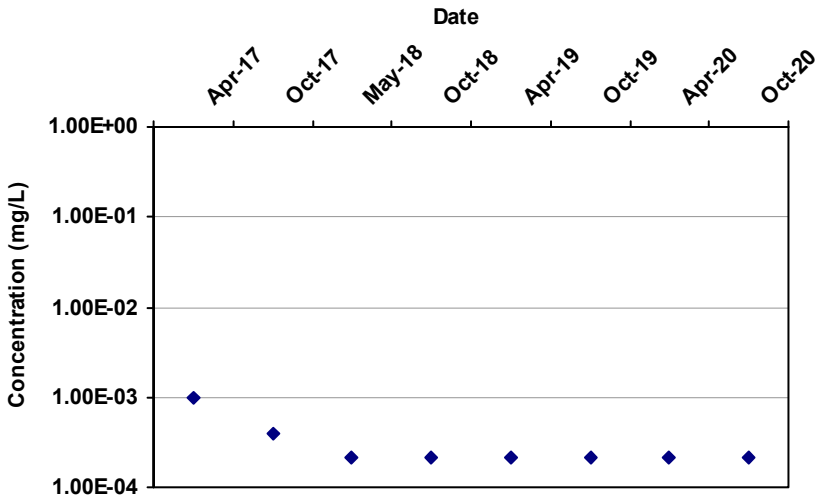
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-27	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-13

Confidence in Trend:

92.9%

Coefficient of Variation:

0.81

Mann Kendall Concentration Trend: (See Note)

PD

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-27	T	4/11/2017	TETRACHLOROETHYL	1.0E-03		1	1
MW-27	T	10/17/2017	TETRACHLOROETHYL	3.9E-04		1	1
MW-27	T	5/8/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-27	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-27	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-27	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-27	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-27	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

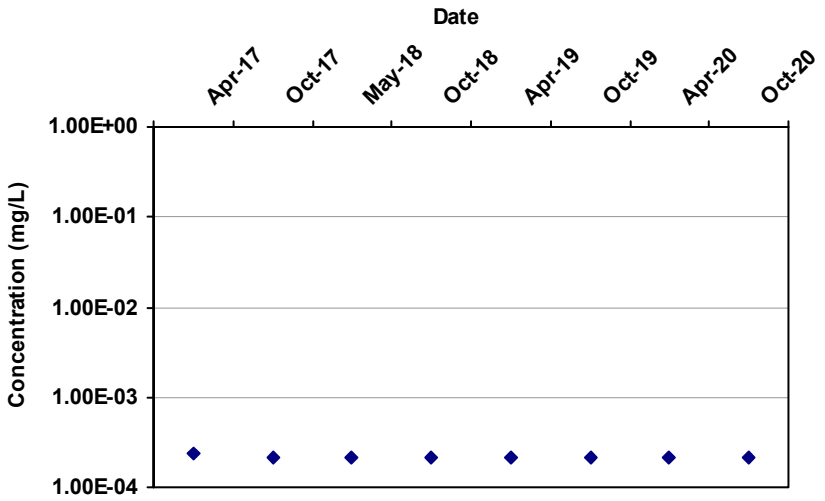
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-28	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-7

Confidence in Trend:

76.4%

Coefficient of Variation:

0.03

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-28	T	4/11/2017	TETRACHLOROETHYL	2.4E-04		1	1
MW-28	T	10/17/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-28	T	5/8/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-28	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-28	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-28	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-28	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-28	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

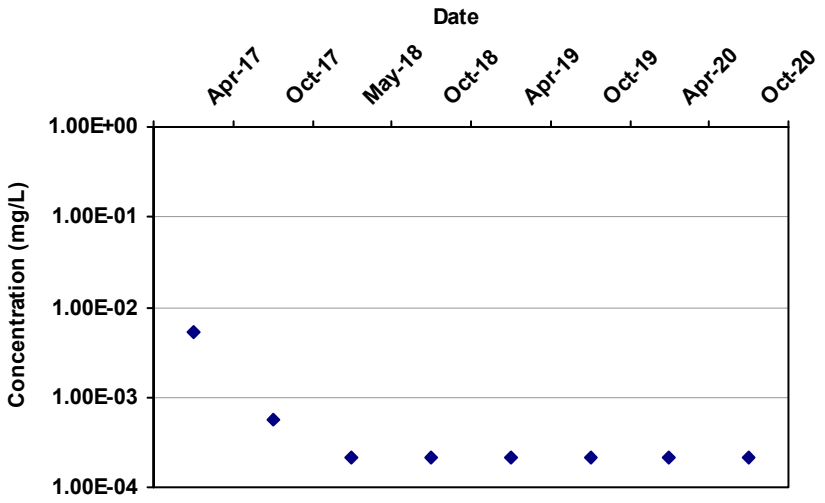
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-29	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

-13

Confidence in Trend:

92.9%

Coefficient of Variation:

2.00

Mann Kendall Concentration Trend: (See Note)

PD

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-29	T	4/11/2017	TETRACHLOROETHYL	5.4E-03		1	1
MW-29	T	10/17/2017	TETRACHLOROETHYL	5.6E-04		1	1
MW-29	T	5/8/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-29	T	10/30/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-29	T	4/23/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-29	T	10/16/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-29	T	4/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-29	T	10/20/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

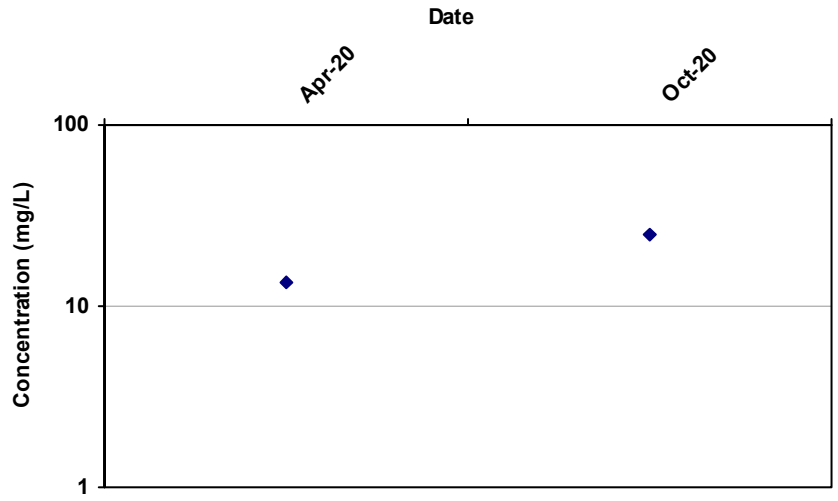
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan LTM Optimiazation_Shallow **User Name:**

Location: Bamberg **State:** South Carolina

Well:	MW-37	**Time Period:**	3/10/2014 **to** 10/20/2020
Well Type:	T	**Consolidation Period:**	No Time Consolidation
COC:	TETRACHLOROETHYLENE(PCE)	**Duplicate Consolidation:**	Average
		Consolidation Type:	Maximum
		ND Values:	Specified Detection Limit
		J Flag Values :	Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

0.0%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

N/A

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-37	T	4/15/2020	TETRACHLOROETHYL	1.4E+01		1	1
MW-37	T	10/20/2020	TETRACHLOROETHYL	2.5E+01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies - Deep (Limestone) Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Time Period: 3/10/2014 to 10/20/2020
Consolidation Period: No Time Consolidation
Consolidation Type: Geometric Mean
Duplicate Consolidation: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value

Well	Source/ Tail	Number of Samples	Number of Detects	Coefficient of Variation	Mann-Kendall Statistic	Confidence in Trend	All Samples "ND" ?	Concentration Trend
TETRACHLOROETHYLENE(PCE)								
MW-10D	T	14	4	0.26	44	99.2%	No	I
MW-12D	T	14	14	0.59	15	77.5%	No	NT
MW-13D	T	14	14	0.50	23	88.3%	No	NT
MW-14D	T	14	14	0.17	-31	95.0%	No	D
MW-15D	T	14	0	0.00	0	47.8%	Yes	ND
MW-16D	T	14	0	0.00	0	47.8%	Yes	ND
MW-21D	S	14	14	1.12	-5	58.5%	No	NT
MW-22D	T	14	14	0.26	-15	77.5%	No	S
MW-23D	T	12	0	0.00	0	47.3%	Yes	ND
MW-25D	T	11	11	0.25	9	72.9%	No	NT
MW-26D	T	11	11	0.16	-1	50.0%	No	S
MW-30D	T	8	8	0.30	0	45.2%	No	S
MW-31D	T	8	8	0.29	4	64.0%	No	NT
MW-32DR	T	8	8	0.16	2	54.8%	No	NT
MW-33D	T	3	0	0.00	0	0.0%	Yes	ND
MW-34D	T	3	0	0.00	0	0.0%	Yes	ND
MW-35D	T	3	0	0.00	0	0.0%	Yes	ND
MW-36D	T	3	1	0.00	0	0.0%	No	N/A
MW-3D	T	14	14	0.21	-7	62.6%	No	S
MW-9D	T	13	0	0.00	0	47.6%	Yes	ND

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A)-Due to insufficient Data (< 4 sampling events); Source/Tail (S/T)

The Number of Samples and Number of Detects shown above are post-consolidation values.

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-3D **Time Period:** 3/10/2014 **to** 10/20/2020

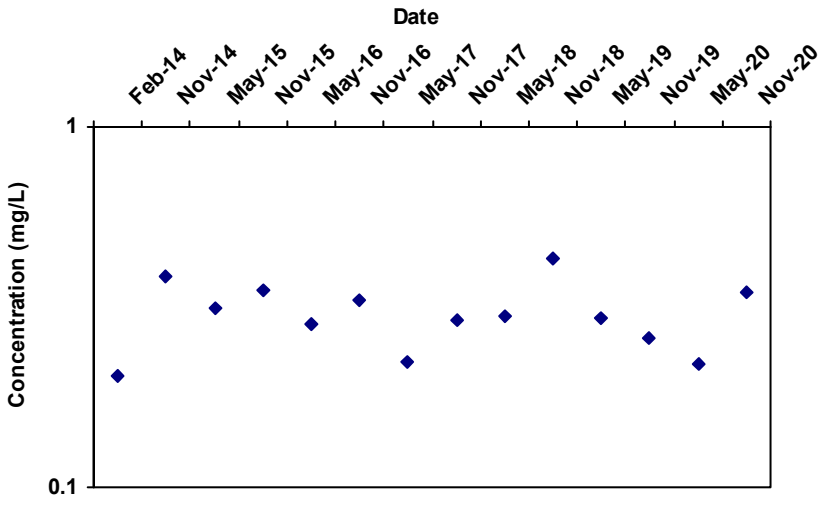
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

-7

Confidence in Trend:

62.6%

Coefficient of Variation:

0.21

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3D	T	2/15/2014	TETRACHLOROETHYL	2.0E-01		1	1
MW-3D	T	11/15/2014	TETRACHLOROETHYL	3.8E-01		1	1
MW-3D	T	5/15/2015	TETRACHLOROETHYL	3.2E-01		1	1
MW-3D	T	11/15/2015	TETRACHLOROETHYL	3.5E-01		1	1
MW-3D	T	5/15/2016	TETRACHLOROETHYL	2.9E-01		1	1
MW-3D	T	11/15/2016	TETRACHLOROETHYL	3.3E-01		1	1
MW-3D	T	5/15/2017	TETRACHLOROETHYL	2.2E-01		1	1
MW-3D	T	11/15/2017	TETRACHLOROETHYL	2.9E-01		1	1
MW-3D	T	5/15/2018	TETRACHLOROETHYL	3.0E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-3D	T	11/15/2018	TETRACHLOROETHYL	4.3E-01		1	1
MW-3D	T	5/15/2019	TETRACHLOROETHYL	3.0E-01		1	1
MW-3D	T	11/15/2019	TETRACHLOROETHYL	2.6E-01		1	1
MW-3D	T	5/15/2020	TETRACHLOROETHYL	2.2E-01		1	1
MW-3D	T	11/15/2020	TETRACHLOROETHYL	3.5E-01		1	1

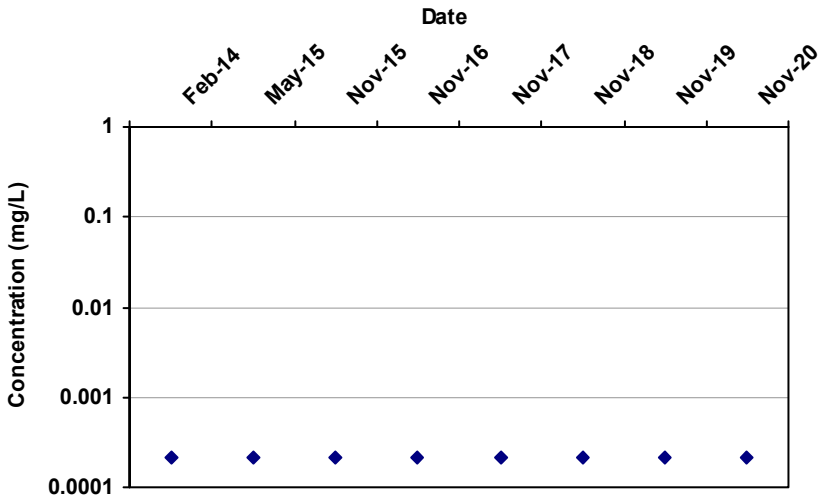
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-9D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Duplicate Consolidation: Maximum
Consolidation Type: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



Mann Kendall S Statistic:
0

Confidence in Trend:
45.2%

Coefficient of Variation:
0.00

Mann Kendall Concentration Trend: (See Note)
ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-9D	T	2/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	5/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	11/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	11/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	11/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	11/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-9D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-10D **Time Period:** 3/10/2014 **to** 10/20/2020

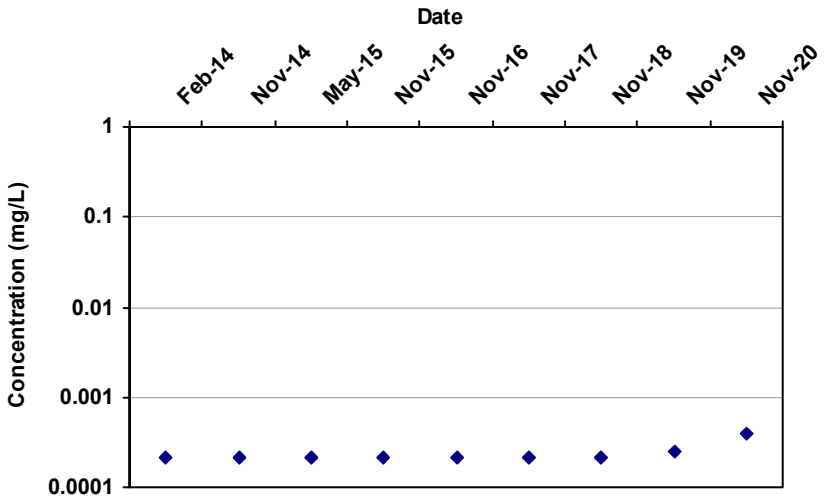
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

15

Confidence in Trend:

92.5%

Coefficient of Variation:

0.24

Mann Kendall Concentration Trend: (See Note)

PI

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-10D	T	2/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	11/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	5/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	11/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	11/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	11/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	11/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-10D	T	11/15/2019	TETRACHLOROETHYL	2.5E-04		1	1
MW-10D	T	11/15/2020	TETRACHLOROETHYL	4.0E-04		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-12D **Time Period:** 3/10/2014 **to** 10/20/2020

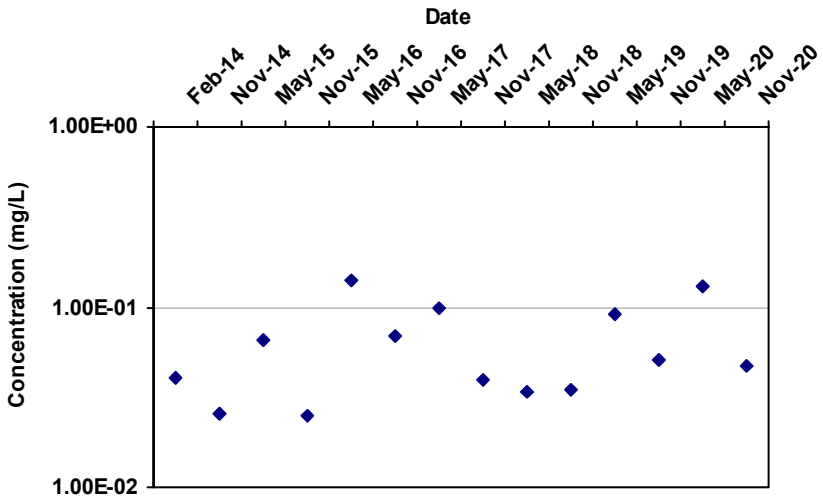
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

15

Confidence in Trend:

77.5%

Coefficient of Variation:

0.59

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-12D	T	2/15/2014	TETRACHLOROETHYL	4.1E-02		1	1
MW-12D	T	11/15/2014	TETRACHLOROETHYL	2.6E-02		1	1
MW-12D	T	5/15/2015	TETRACHLOROETHYL	6.6E-02		1	1
MW-12D	T	11/15/2015	TETRACHLOROETHYL	2.5E-02		1	1
MW-12D	T	5/15/2016	TETRACHLOROETHYL	1.4E-01		1	1
MW-12D	T	11/15/2016	TETRACHLOROETHYL	6.9E-02		1	1
MW-12D	T	5/15/2017	TETRACHLOROETHYL	9.9E-02		1	1
MW-12D	T	11/15/2017	TETRACHLOROETHYL	3.9E-02		1	1
MW-12D	T	5/15/2018	TETRACHLOROETHYL	3.4E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-12D	T	11/15/2018	TETRACHLOROETHYL	3.5E-02		1	1
MW-12D	T	5/15/2019	TETRACHLOROETHYL	9.2E-02		1	1
MW-12D	T	11/15/2019	TETRACHLOROETHYL	5.0E-02		1	1
MW-12D	T	5/15/2020	TETRACHLOROETHYL	1.3E-01		1	1
MW-12D	T	11/15/2020	TETRACHLOROETHYL	4.7E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-13D **Time Period:** 3/10/2014 **to** 10/20/2020

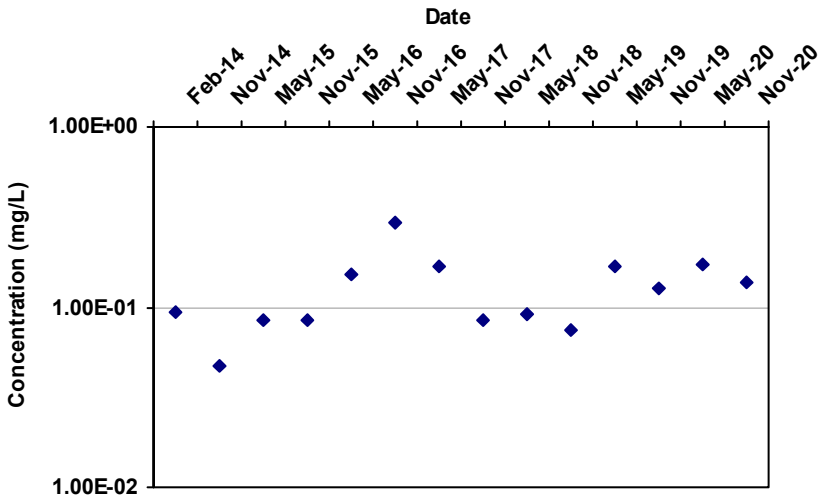
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

23

Confidence in Trend:

88.3%

Coefficient of Variation:

0.50

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-13D	T	2/15/2014	TETRACHLOROETHYL	9.4E-02		1	1
MW-13D	T	11/15/2014	TETRACHLOROETHYL	4.8E-02		1	1
MW-13D	T	5/15/2015	TETRACHLOROETHYL	8.5E-02		1	1
MW-13D	T	11/15/2015	TETRACHLOROETHYL	8.5E-02		1	1
MW-13D	T	5/15/2016	TETRACHLOROETHYL	1.5E-01		1	1
MW-13D	T	11/15/2016	TETRACHLOROETHYL	3.0E-01		1	1
MW-13D	T	5/15/2017	TETRACHLOROETHYL	1.7E-01		1	1
MW-13D	T	11/15/2017	TETRACHLOROETHYL	8.4E-02		1	1
MW-13D	T	5/15/2018	TETRACHLOROETHYL	9.3E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-13D	T	11/15/2018	TETRACHLOROETHYL	7.4E-02		1	1
MW-13D	T	5/15/2019	TETRACHLOROETHYL	1.7E-01		1	1
MW-13D	T	11/15/2019	TETRACHLOROETHYL	1.3E-01		1	1
MW-13D	T	5/15/2020	TETRACHLOROETHYL	1.7E-01		1	1
MW-13D	T	11/15/2020	TETRACHLOROETHYL	1.4E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-14D **Time Period:** 3/10/2014 **to** 10/20/2020

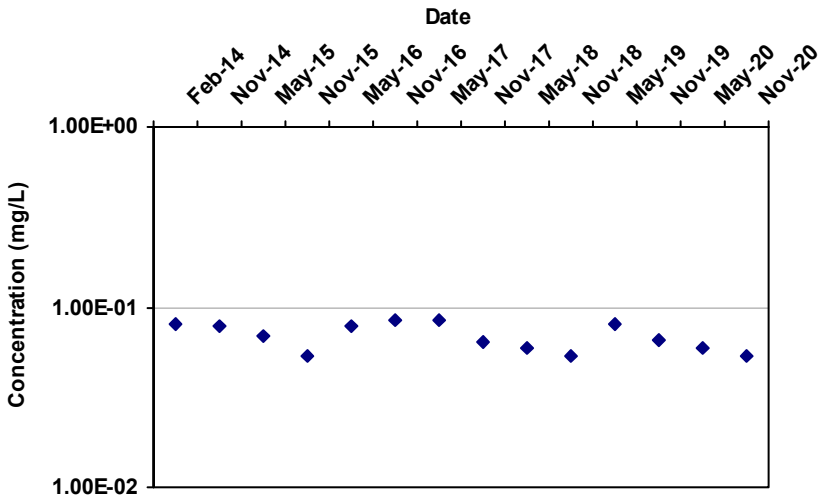
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

-31

Confidence in Trend:

95.0%

Coefficient of Variation:

0.17

Mann Kendall Concentration Trend: (See Note)

D

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14D	T	2/15/2014	TETRACHLOROETHYL	8.2E-02		1	1
MW-14D	T	11/15/2014	TETRACHLOROETHYL	7.9E-02		1	1
MW-14D	T	5/15/2015	TETRACHLOROETHYL	7.0E-02		1	1
MW-14D	T	11/15/2015	TETRACHLOROETHYL	5.3E-02		1	1
MW-14D	T	5/15/2016	TETRACHLOROETHYL	7.9E-02		1	1
MW-14D	T	11/15/2016	TETRACHLOROETHYL	8.4E-02		1	1
MW-14D	T	5/15/2017	TETRACHLOROETHYL	8.5E-02		1	1
MW-14D	T	11/15/2017	TETRACHLOROETHYL	6.3E-02		1	1
MW-14D	T	5/15/2018	TETRACHLOROETHYL	6.0E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-14D	T	11/15/2018	TETRACHLOROETHYL	5.4E-02		1	1
MW-14D	T	5/15/2019	TETRACHLOROETHYL	8.1E-02		1	1
MW-14D	T	11/15/2019	TETRACHLOROETHYL	6.5E-02		1	1
MW-14D	T	5/15/2020	TETRACHLOROETHYL	6.0E-02		1	1
MW-14D	T	11/15/2020	TETRACHLOROETHYL	5.3E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-15D **Time Period:** 3/10/2014 **to** 10/20/2020

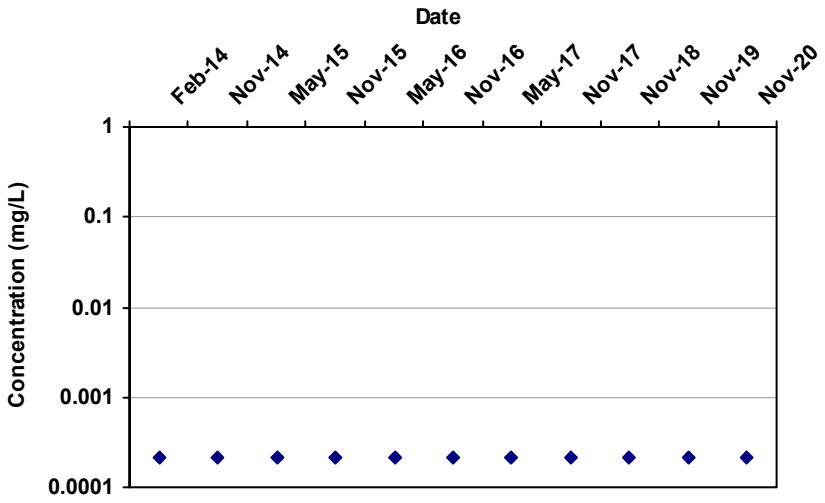
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

46.9%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15D	T	2/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	11/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	5/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	11/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	5/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	11/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	5/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	11/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	11/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-15D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-15D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-16D **Time Period:** 3/10/2014 **to** 10/20/2020

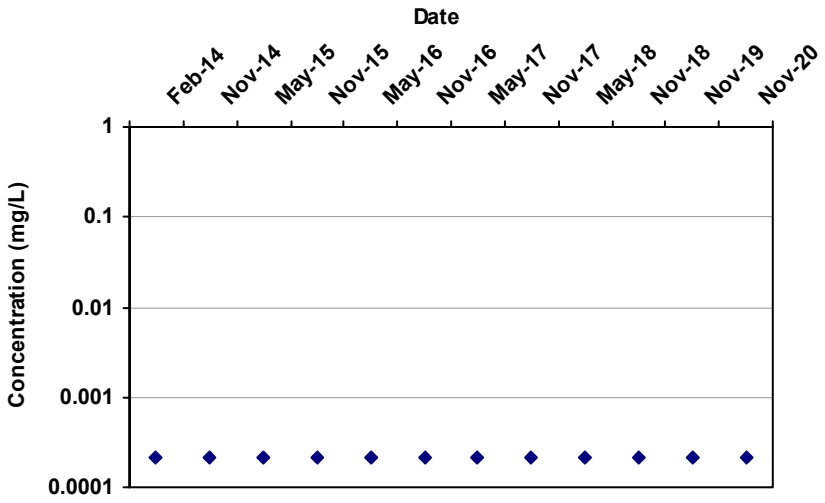
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

47.3%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16D	T	2/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	11/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	5/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	11/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	5/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	11/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	5/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	11/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	5/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-16D	T	11/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-16D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-21D **Time Period:** 3/10/2014 **to** 10/20/2020

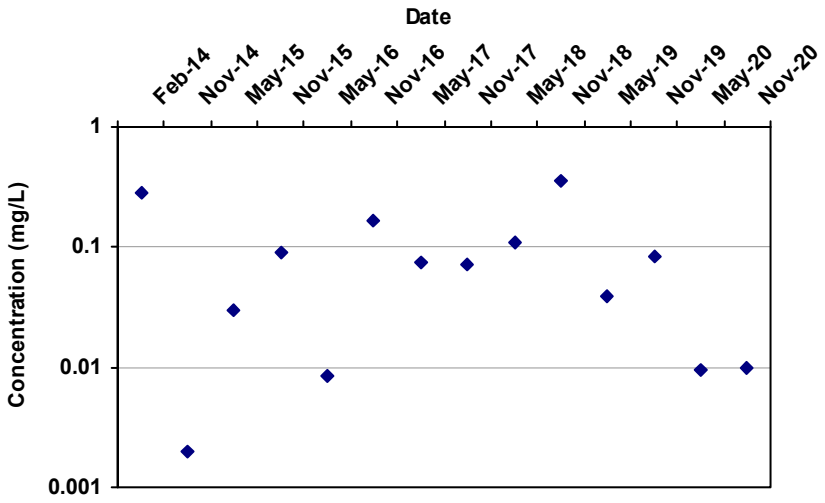
Well Type: S **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

-5

Confidence in Trend:

58.5%

Coefficient of Variation:

1.12

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21D	S	2/15/2014	TETRACHLOROETHYL	2.8E-01		1	1
MW-21D	S	11/15/2014	TETRACHLOROETHYL	2.0E-03		1	1
MW-21D	S	5/15/2015	TETRACHLOROETHYL	2.9E-02		1	1
MW-21D	S	11/15/2015	TETRACHLOROETHYL	9.1E-02		1	1
MW-21D	S	5/15/2016	TETRACHLOROETHYL	8.6E-03		1	1
MW-21D	S	11/15/2016	TETRACHLOROETHYL	1.7E-01		1	1
MW-21D	S	5/15/2017	TETRACHLOROETHYL	7.5E-02		1	1
MW-21D	S	11/15/2017	TETRACHLOROETHYL	7.3E-02		1	1
MW-21D	S	5/15/2018	TETRACHLOROETHYL	1.1E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-21D	S	11/15/2018	TETRACHLOROETHYL	3.6E-01		1	1
MW-21D	S	5/15/2019	TETRACHLOROETHYL	3.9E-02		1	1
MW-21D	S	11/15/2019	TETRACHLOROETHYL	8.4E-02		1	1
MW-21D	S	5/15/2020	TETRACHLOROETHYL	9.6E-03		1	1
MW-21D	S	11/15/2020	TETRACHLOROETHYL	9.8E-03		1	1

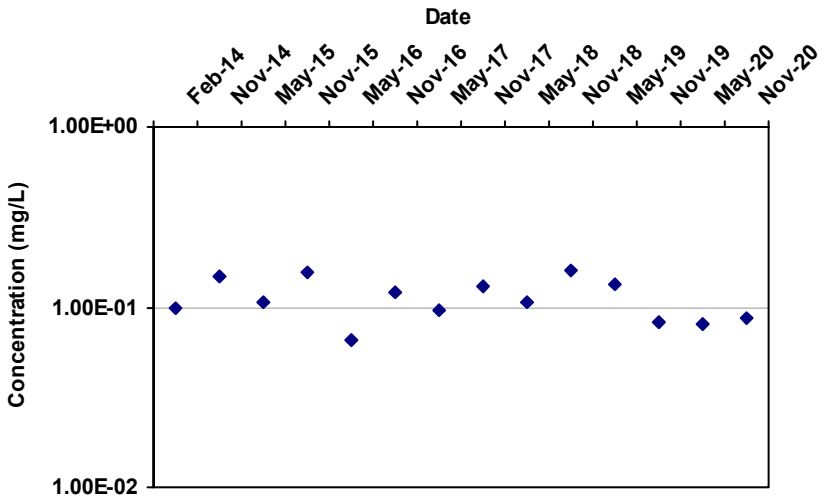
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-22D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Duplicate Consolidation: Maximum
Consolidation Type: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



Mann Kendall S Statistic:

-15

Confidence in Trend:

77.5%

Coefficient of Variation:

0.26

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-22D	T	2/15/2014	TETRACHLOROETHYL	1.0E-01		1	1
MW-22D	T	11/15/2014	TETRACHLOROETHYL	1.5E-01		1	1
MW-22D	T	5/15/2015	TETRACHLOROETHYL	1.1E-01		1	1
MW-22D	T	11/15/2015	TETRACHLOROETHYL	1.6E-01		1	1
MW-22D	T	5/15/2016	TETRACHLOROETHYL	6.6E-02		1	1
MW-22D	T	11/15/2016	TETRACHLOROETHYL	1.2E-01		1	1
MW-22D	T	5/15/2017	TETRACHLOROETHYL	9.7E-02		1	1
MW-22D	T	11/15/2017	TETRACHLOROETHYL	1.3E-01		1	1
MW-22D	T	5/15/2018	TETRACHLOROETHYL	1.1E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-22D	T	11/15/2018	TETRACHLOROETHYL	1.6E-01		1	1
MW-22D	T	5/15/2019	TETRACHLOROETHYL	1.3E-01		1	1
MW-22D	T	11/15/2019	TETRACHLOROETHYL	8.2E-02		1	1
MW-22D	T	5/15/2020	TETRACHLOROETHYL	8.1E-02		1	1
MW-22D	T	11/15/2020	TETRACHLOROETHYL	8.8E-02		1	1

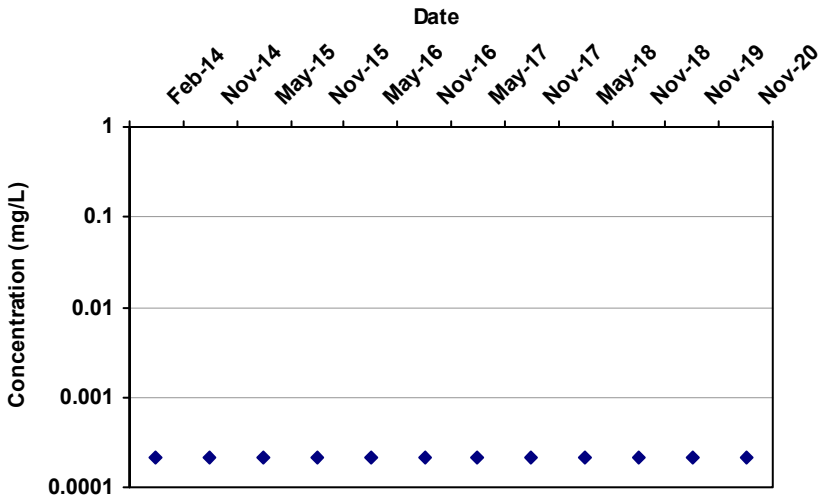
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-23D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Duplicate Consolidation: Maximum
Consolidation Type: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

47.3%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

ND

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-23D	T	2/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	11/15/2014	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	5/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	11/15/2015	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	5/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	11/15/2016	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	5/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	11/15/2017	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	5/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-23D	T	11/15/2018	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-23D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-25D **Time Period:** 3/10/2014 **to** 10/20/2020

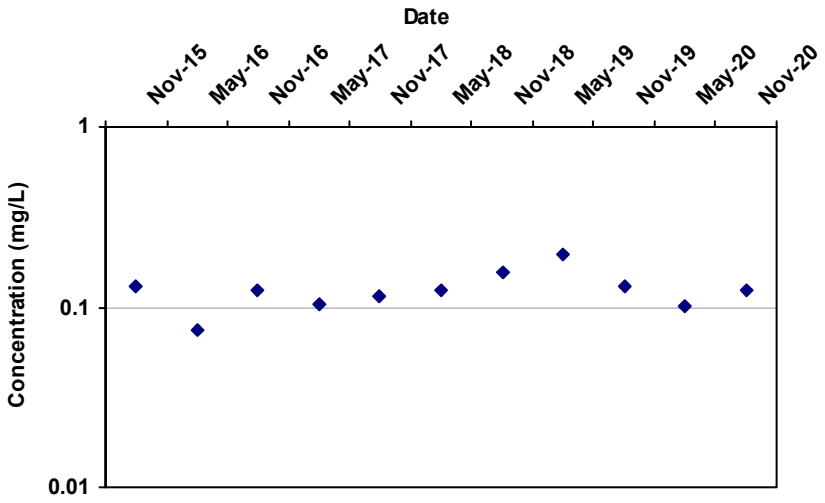
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

9

Confidence in Trend:

72.9%

Coefficient of Variation:

0.25

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-25D	T	11/15/2015	TETRACHLOROETHYL	1.3E-01		1	1
MW-25D	T	5/15/2016	TETRACHLOROETHYL	7.5E-02		1	1
MW-25D	T	11/15/2016	TETRACHLOROETHYL	1.3E-01		1	1
MW-25D	T	5/15/2017	TETRACHLOROETHYL	1.1E-01		1	1
MW-25D	T	11/15/2017	TETRACHLOROETHYL	1.2E-01		1	1
MW-25D	T	5/15/2018	TETRACHLOROETHYL	1.2E-01		1	1
MW-25D	T	11/15/2018	TETRACHLOROETHYL	1.6E-01		1	1
MW-25D	T	5/15/2019	TETRACHLOROETHYL	2.0E-01		1	1
MW-25D	T	11/15/2019	TETRACHLOROETHYL	1.3E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-25D	T	5/15/2020	TETRACHLOROETHYL	1.0E-01		1	1
MW-25D	T	11/15/2020	TETRACHLOROETHYL	1.2E-01		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-26D **Time Period:** 3/10/2014 **to** 10/20/2020

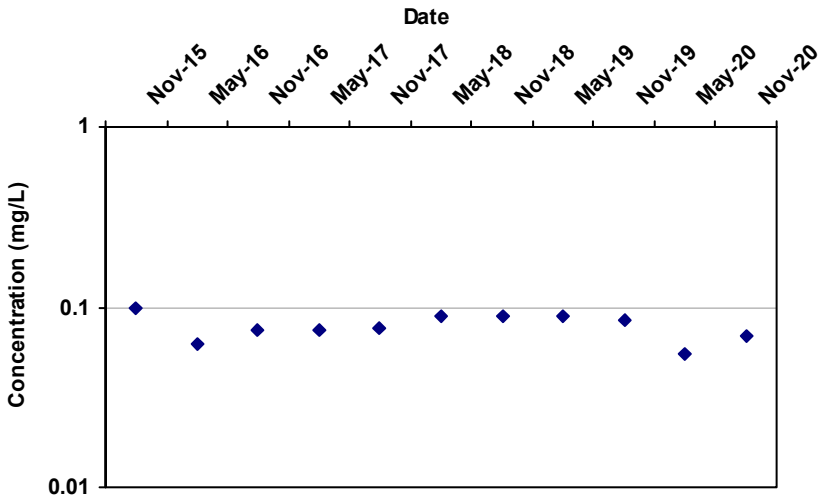
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

-1

Confidence in Trend:

50.0%

Coefficient of Variation:

0.16

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-26D	T	11/15/2015	TETRACHLOROETHYL	9.8E-02		1	1
MW-26D	T	5/15/2016	TETRACHLOROETHYL	6.3E-02		1	1
MW-26D	T	11/15/2016	TETRACHLOROETHYL	7.5E-02		1	1
MW-26D	T	5/15/2017	TETRACHLOROETHYL	7.5E-02		1	1
MW-26D	T	11/15/2017	TETRACHLOROETHYL	7.6E-02		1	1
MW-26D	T	5/15/2018	TETRACHLOROETHYL	8.9E-02		1	1
MW-26D	T	11/15/2018	TETRACHLOROETHYL	9.0E-02		1	1
MW-26D	T	5/15/2019	TETRACHLOROETHYL	9.0E-02		1	1
MW-26D	T	11/15/2019	TETRACHLOROETHYL	8.4E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-26D	T	5/15/2020	TETRACHLOROETHYL	5.6E-02		1	1
MW-26D	T	11/15/2020	TETRACHLOROETHYL	6.9E-02		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-30D **Time Period:** 3/10/2014 **to** 10/20/2020

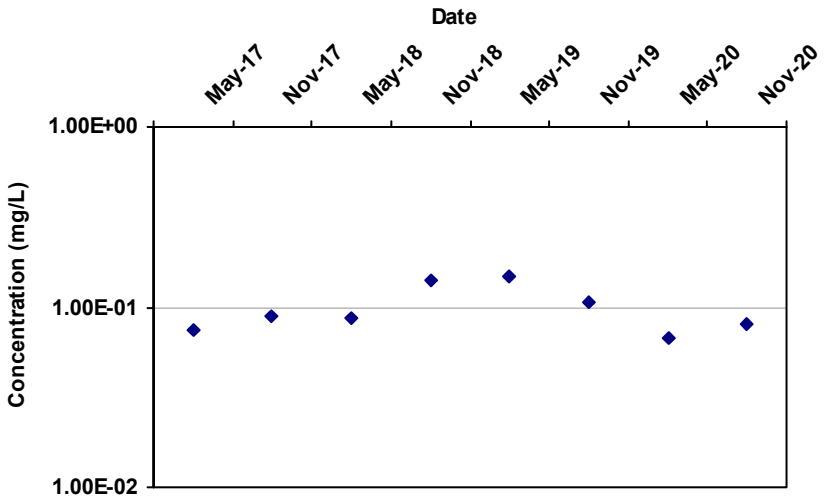
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

45.2%

Coefficient of Variation:

0.30

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-30D	T	5/15/2017	TETRACHLOROETHYL	7.5E-02		1	1
MW-30D	T	11/15/2017	TETRACHLOROETHYL	8.8E-02		1	1
MW-30D	T	5/15/2018	TETRACHLOROETHYL	8.7E-02		1	1
MW-30D	T	11/15/2018	TETRACHLOROETHYL	1.4E-01		1	1
MW-30D	T	5/15/2019	TETRACHLOROETHYL	1.5E-01		1	1
MW-30D	T	11/15/2019	TETRACHLOROETHYL	1.1E-01		1	1
MW-30D	T	5/15/2020	TETRACHLOROETHYL	6.8E-02		1	1
MW-30D	T	11/15/2020	TETRACHLOROETHYL	8.0E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-31D **Time Period:** 3/10/2014 **to** 10/20/2020

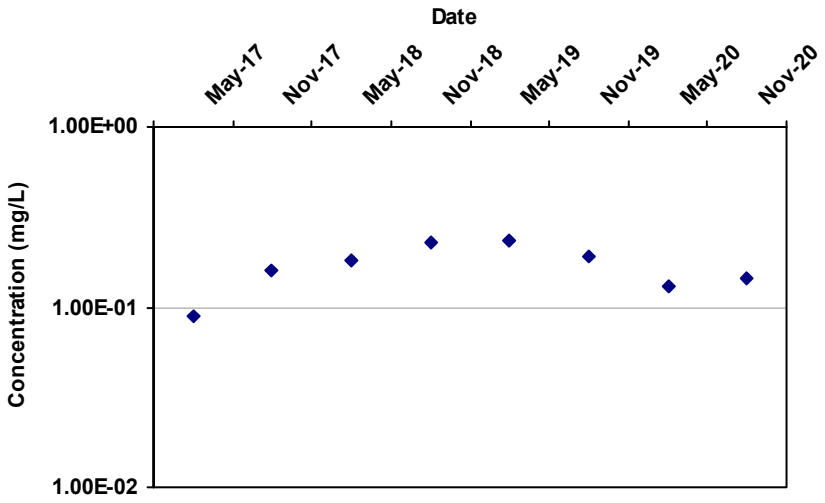
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

4

Confidence in Trend:

64.0%

Coefficient of Variation:

0.29

Mann Kendall Concentration Trend: (See Note)

NT

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-31D	T	5/15/2017	TETRACHLOROETHYL	8.9E-02		1	1
MW-31D	T	11/15/2017	TETRACHLOROETHYL	1.6E-01		1	1
MW-31D	T	5/15/2018	TETRACHLOROETHYL	1.8E-01		1	1
MW-31D	T	11/15/2018	TETRACHLOROETHYL	2.3E-01		1	1
MW-31D	T	5/15/2019	TETRACHLOROETHYL	2.3E-01		1	1
MW-31D	T	11/15/2019	TETRACHLOROETHYL	1.9E-01		1	1
MW-31D	T	5/15/2020	TETRACHLOROETHYL	1.3E-01		1	1
MW-31D	T	11/15/2020	TETRACHLOROETHYL	1.4E-01		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-32DR **Time Period:** 3/10/2014 **to** 10/20/2020

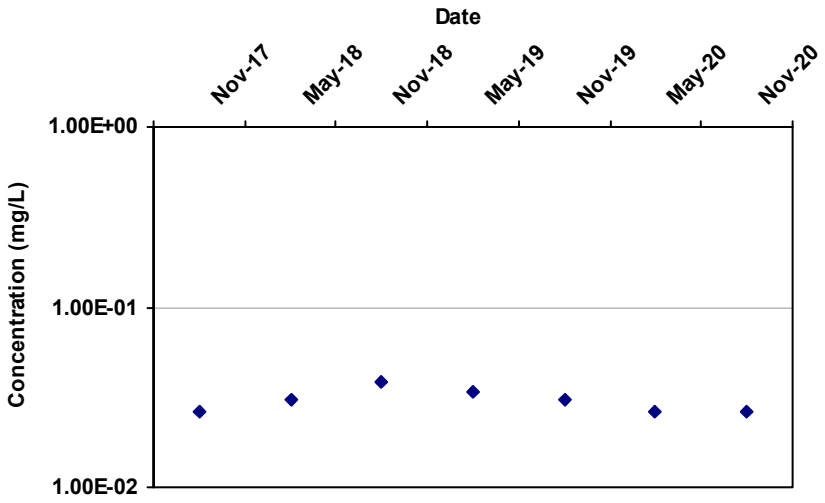
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

-5

Confidence in Trend:

71.9%

Coefficient of Variation:

0.16

Mann Kendall Concentration Trend: (See Note)

S

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-32DR	T	11/15/2017	TETRACHLOROETHYL	2.6E-02		1	1
MW-32DR	T	5/15/2018	TETRACHLOROETHYL	3.0E-02		1	1
MW-32DR	T	11/15/2018	TETRACHLOROETHYL	3.9E-02		1	1
MW-32DR	T	5/15/2019	TETRACHLOROETHYL	3.4E-02		1	1
MW-32DR	T	11/15/2019	TETRACHLOROETHYL	3.1E-02		1	1
MW-32DR	T	5/15/2020	TETRACHLOROETHYL	2.6E-02		1	1
MW-32DR	T	11/15/2020	TETRACHLOROETHYL	2.6E-02		1	1

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-33D **Time Period:** 3/10/2014 **to** 10/20/2020

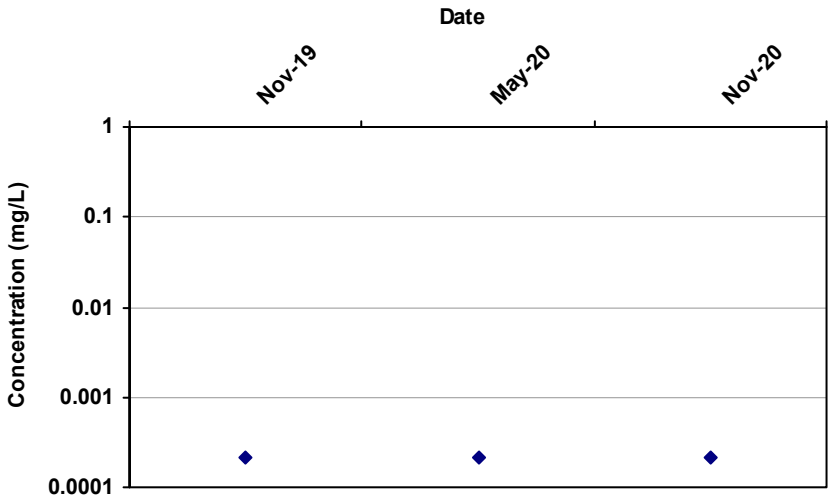
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

0.0%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

N/A

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-33D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-33D	T	5/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-33D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

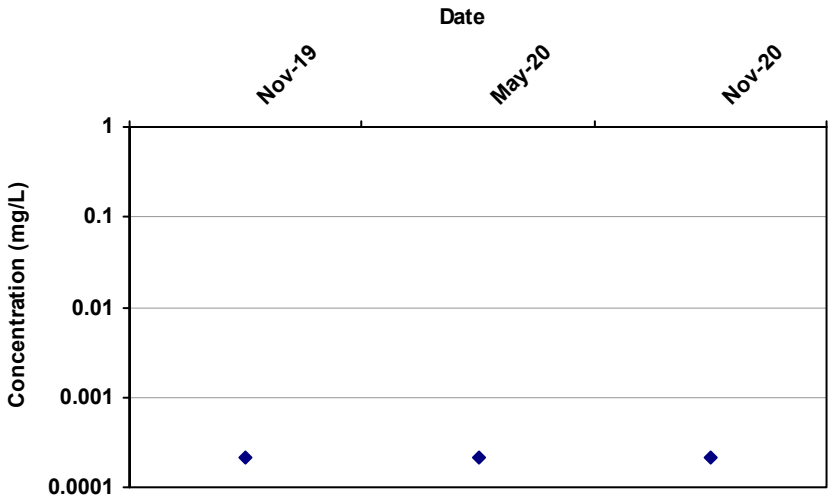
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Well: MW-34D
Well Type: T
COC: TETRACHLOROETHYLENE(PCE)

Time Period: 3/10/2014 **to** 10/20/2020
Consolidation Period: Quarterly
Duplicate Consolidation: Maximum
Consolidation Type: Maximum
ND Values: Specified Detection Limit
J Flag Values : Actual Value



Mann Kendall S Statistic:
0

Confidence in Trend:
0.0%

Coefficient of Variation:
0.00

Mann Kendall Concentration Trend: (See Note)
N/A

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-34D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-34D	T	5/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-34D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-35D **Time Period:** 3/10/2014 **to** 10/20/2020

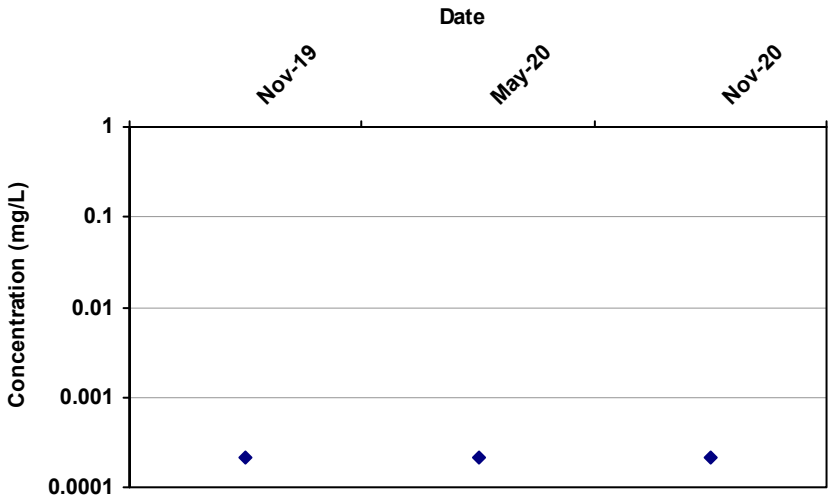
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

0.0%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

N/A

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-35D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-35D	T	5/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-35D	T	11/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

MAROS Mann-Kendall Statistics Summary

Project: Delavan Spray Technologies **User Name:** Leslee Alexander

Location: Bamberg **State:** South Carolina

Well: MW-36D **Time Period:** 3/10/2014 **to** 10/20/2020

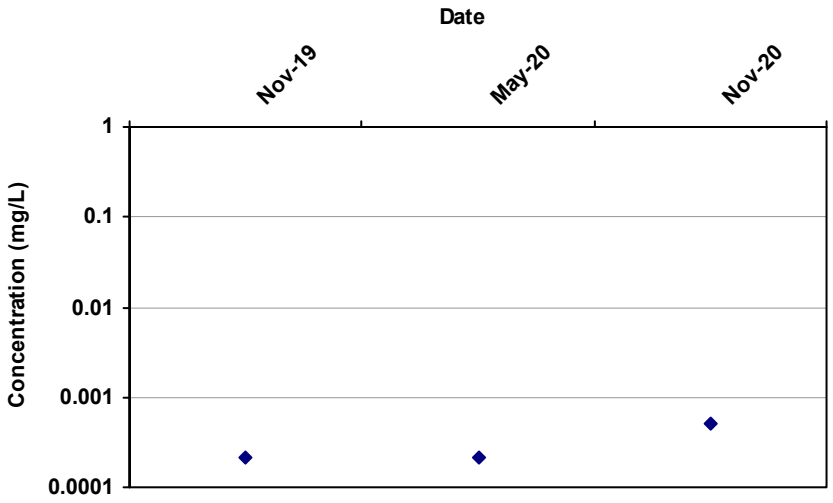
Well Type: T **Consolidation Period:** Quarterly

COC: TETRACHLOROETHYLENE(PCE) **Duplicate Consolidation:** Maximum

Consolidation Type: Maximum

ND Values: Specified Detection Limit

J Flag Values : Actual Value



Mann Kendall S Statistic:

0

Confidence in Trend:

0.0%

Coefficient of Variation:

0.00

Mann Kendall Concentration Trend: (See Note)

N/A

Data Table:

Well	Well Type	Effective Date	Constituent	Result (mg/L)	Flag	Number of Samples	Number of Detects
MW-36D	T	11/15/2019	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-36D	T	5/15/2020	TETRACHLOROETHYL	2.2E-04	ND	1	0
MW-36D	T	11/15/2020	TETRACHLOROETHYL	5.2E-04		1	1

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect

ATTACHMENT 3

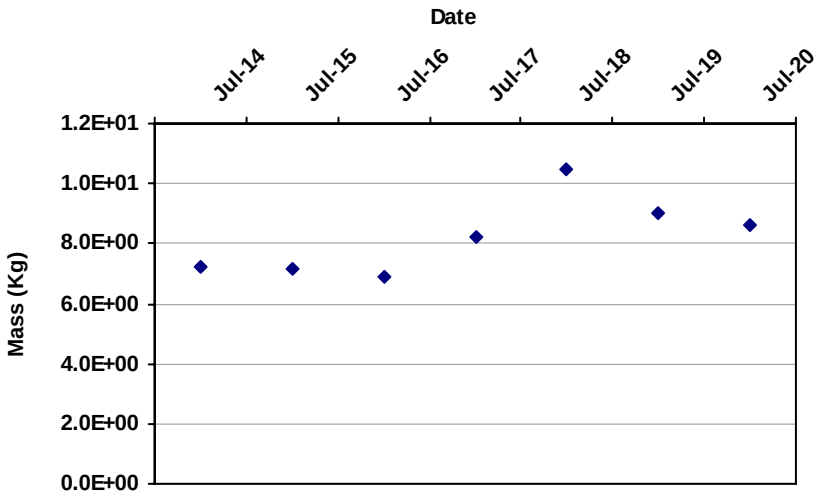
Spatial Moment Analysis

MAROS Zeroth Moment Analysis

Project: Delavan Spray Technologies - Shallow
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Change in Dissolved Mass Over Time

COC: TETRACHLOROETHYLENE(PCE)



Porosity: 0.20

Saturated Thickness:
Uniform: 19.57 ft

Mann-Kendall S Statistic:
9

Confidence in Trend:
88.1%

Coefficient of Variation:
0.15

Zeroth Moment Trend:
NT

Data Table:

Effective Date	Constituent	Estimated Mass (Kg)	Number of Wells
7/1/2014	TETRACHLOROETHYLENE(PCE)	7.2E+00	24
7/1/2015	TETRACHLOROETHYLENE(PCE)	7.2E+00	24
7/1/2016	TETRACHLOROETHYLENE(PCE)	6.9E+00	24
7/1/2017	TETRACHLOROETHYLENE(PCE)	8.2E+00	24
7/1/2018	TETRACHLOROETHYLENE(PCE)	1.0E+01	24
7/1/2019	TETRACHLOROETHYLENE(PCE)	9.0E+00	24
7/1/2020	TETRACHLOROETHYLENE(PCE)	8.6E+00	24

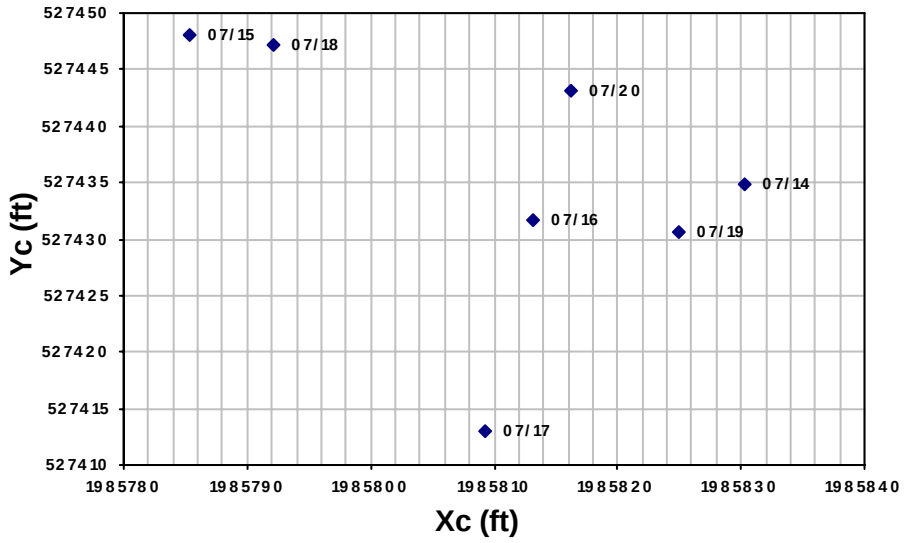
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect. Moments are not calculated for sample events with less than 6 wells.

MAROS First Moment Analysis

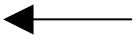
Project: Delavan Spray Technologies - Shallow
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

COC: TETRACHLOROETHYLENE(PCE)

Change in Location of Center of Mass Over Time



Groundwater Flow Direction:



Source Coordinates

X: 1,985,778

Y: 527,456

Effective Date	Constituent	Xc (ft)	Yc (ft)	Distance from Source (ft)	Number of Wells
7/1/2014	TETRACHLOROET	1,985,830	527,435	57	24
7/1/2015	TETRACHLOROET	1,985,785	527,448	11	24
7/1/2016	TETRACHLOROET	1,985,813	527,432	43	24
7/1/2017	TETRACHLOROET	1,985,809	527,413	53	24
7/1/2018	TETRACHLOROET	1,985,792	527,447	17	24
7/1/2019	TETRACHLOROET	1,985,825	527,431	54	24
7/1/2020	TETRACHLOROET	1,985,816	527,443	40	24

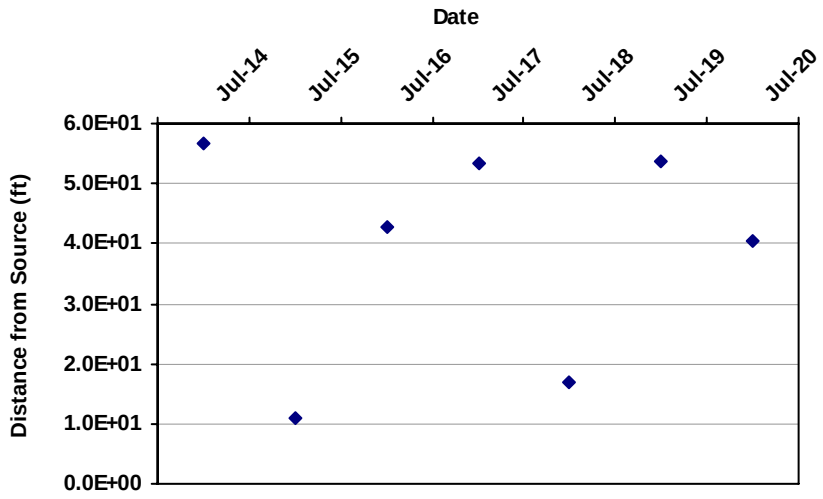
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events). Moments are not calculated for sample events with less than 6 wells.

MAROS First Moment Analysis

Project: Delavan Spray Technologies - Shallow
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

COC: TETRACHLOROETHYLENE(PCE)

Distance from Source to Center of Mass



Mann-Kendall S Statistic:
-1

Confidence in Trend:
50.0%

Coefficient of Variation:
0.47

First Moment Trend:
S

DATA TABLE

Effective Date	Constituent	Xc (ft)	Yc (ft)	Distance from Source	Number of Wells
7/1/2014	TETRACHLOROETHYLENE(PCE)	1,985,830	527,435	57	24
7/1/2015	TETRACHLOROETHYLENE(PCE)	1,985,785	527,448	11	24
7/1/2016	TETRACHLOROETHYLENE(PCE)	1,985,813	527,432	43	24
7/1/2017	TETRACHLOROETHYLENE(PCE)	1,985,809	527,413	53	24
7/1/2018	TETRACHLOROETHYLENE(PCE)	1,985,792	527,447	17	24
7/1/2019	TETRACHLOROETHYLENE(PCE)	1,985,825	527,431	54	24
7/1/2020	TETRACHLOROETHYLENE(PCE)	1,985,816	527,443	40	24

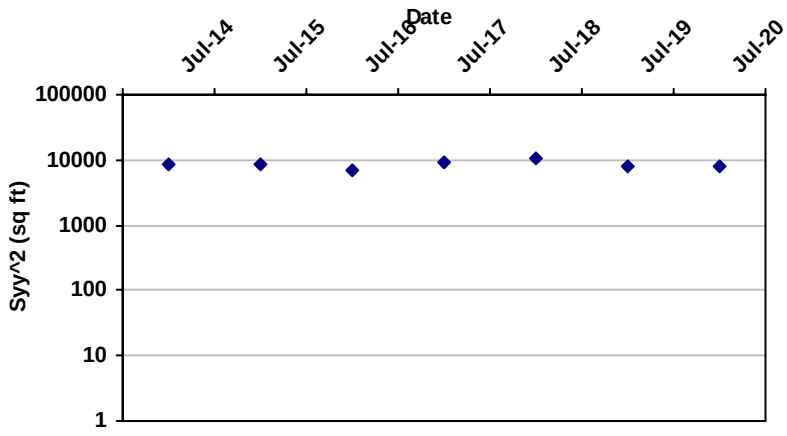
Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events). Moments are not calculated for sample events with less than 6 wells.

MAROS Second Moment Analysis

Project: Delavan Spray Technologies - Shallow
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Change in Plume Spread Over Time

COC: TETRACHLOROETHYLENE(PCE)



Mann-Kendall S Statistic:

-1

Confidence in Trend:

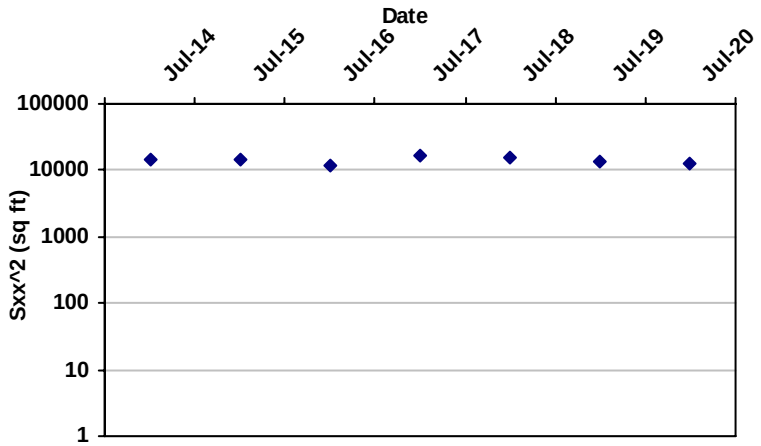
50.0%

Coefficient of Variation:

0.13

Second Moment Trend:

S



Mann-Kendall S Statistic:

-3

Confidence in Trend:

61.4%

Coefficient of Variation:

0.12

Second Moment Trend:

S

Data Table:

Effective Date	Constituent	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
7/1/2014	TETRACHLOROETHYLENE	14,055	8,283	24
7/1/2015	TETRACHLOROETHYLENE	15,019	8,287	24
7/1/2016	TETRACHLOROETHYLENE	11,982	7,076	24
7/1/2017	TETRACHLOROETHYLENE	16,731	9,449	24

MAROS Second Moment Analysis

Project: Delavan Spray Technologies - Shallow
User Name: Leslee Alexander

Location: Bamberg
State: South Carolina

Data Table:

Effective Date	Constituent	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
7/1/2018	TETRACHLOROETHYLENE	16,067	10,502	24
7/1/2019	TETRACHLOROETHYLENE	13,682	8,132	24
7/1/2020	TETRACHLOROETHYLENE	13,075	7,831	24

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events)

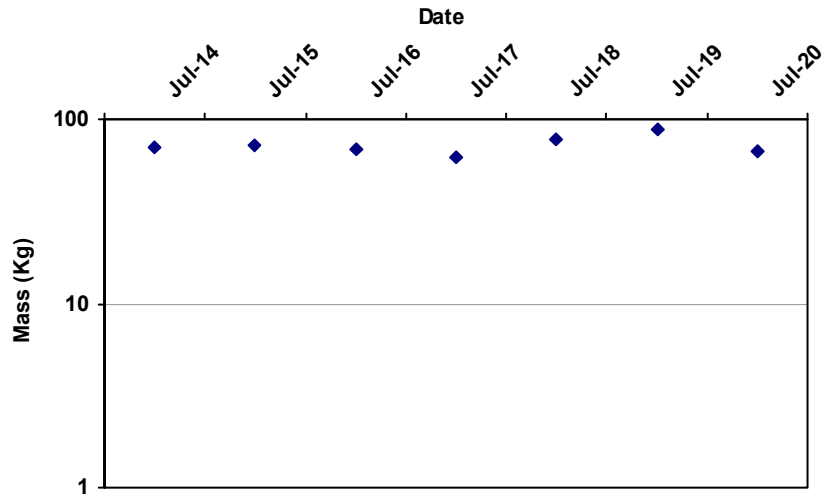
The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.

MAROS Zeroth Moment Analysis

Project: Delavan Spray Technologies - Deep (Limestone) Aquifer
User Name: Leslee Alexander
Location: Bamberg
State: South Carolina

Change in Dissolved Mass Over Time

COC: TETRACHLOROETHYLENE(PCE)



Porosity: 0.25

Saturated Thickness:
Uniform: 50 ft

Mann-Kendall S Statistic:
1

Confidence in Trend:
50.0%

Coefficient of Variation:
0.12

Zeroth Moment Trend:
NT

Data Table:

Effective Date	Constituent	Estimated Mass (Kg)	Number of Wells
7/1/2014	TETRACHLOROETHYLENE(PCE)	7.0E+01	20
7/1/2015	TETRACHLOROETHYLENE(PCE)	7.3E+01	20
7/1/2016	TETRACHLOROETHYLENE(PCE)	6.9E+01	20
7/1/2017	TETRACHLOROETHYLENE(PCE)	6.3E+01	20
7/1/2018	TETRACHLOROETHYLENE(PCE)	7.9E+01	20
7/1/2019	TETRACHLOROETHYLENE(PCE)	8.9E+01	20
7/1/2020	TETRACHLOROETHYLENE(PCE)	6.7E+01	20

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events); ND = Non-detect. Moments are not calculated for sample events with less than 6 wells.

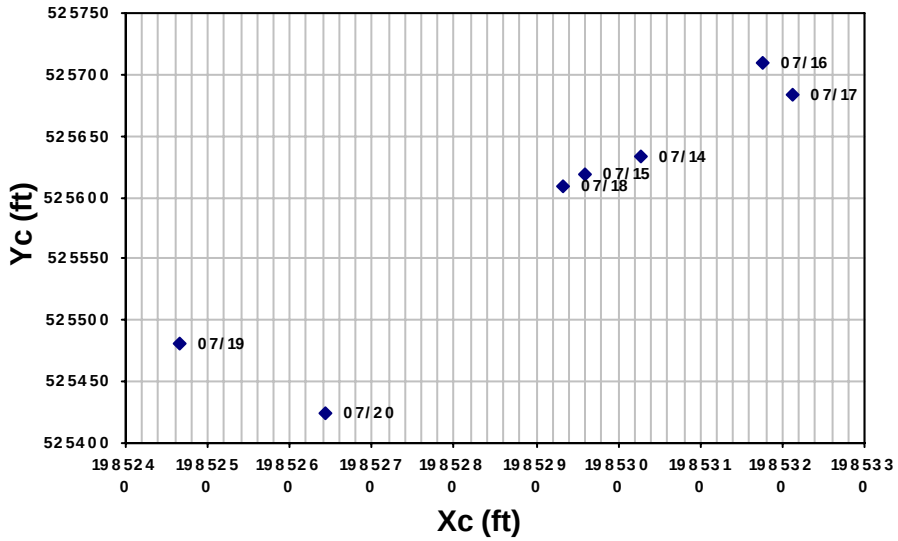
MAROS First Moment Analysis

Project:Delavan Spray Technologies - Deep (Limestone) Aquifer | User Name: Leslee Alexander

Location: Bamberg | State: South Carolina

COC: TETRACHLOROETHYLENE(PCE)

Change in Location of Center of Mass Over Time



Groundwater Flow Direction:

Source Coordinates

X: 1,985,872

Y: 527,235

Effective Date	Constituent	Xc (ft)	Yc (ft)	Distance from Source (ft)	Number of Wells
7/1/2014	TETRACHLOROET	1,985,303	525,633	1,701	20
7/1/2015	TETRACHLOROET	1,985,296	525,618	1,717	20
7/1/2016	TETRACHLOROET	1,985,318	525,710	1,623	20
7/1/2017	TETRACHLOROET	1,985,321	525,684	1,646	20
7/1/2018	TETRACHLOROET	1,985,293	525,609	1,726	20
7/1/2019	TETRACHLOROET	1,985,247	525,482	1,862	20
7/1/2020	TETRACHLOROET	1,985,264	525,424	1,911	20

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events). Moments are not calculated for sample events with less than 6 wells.

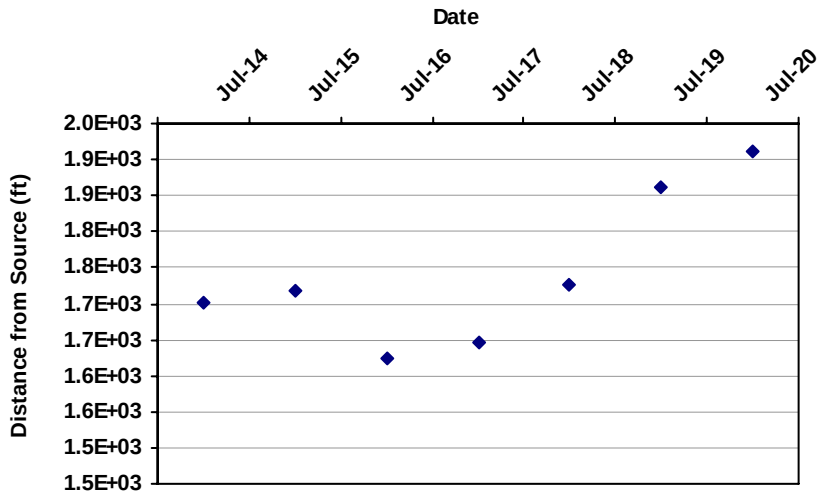
MAROS First Moment Analysis

Project:Delavan Spray Technologies - Deep (Limestone) Aquifer | User Name: Leslee Alexander

Location: Bamberg | State: South Carolina

COC: TETRACHLOROETHYLENE(PCE)

Distance from Source to Center of Mass



Mann-Kendall S Statistic: 13

Confidence in Trend: 96.5%

Coefficient of Variation: 0.06

First Moment Trend: I

DATA TABLE

Effective Date	Constituent	Xc (ft)	Yc (ft)	Distance from Source	Number of Wells
7/1/2014	TETRACHLOROETHYLENE(PCE)	1,985,303	525,633	1,701	20
7/1/2015	TETRACHLOROETHYLENE(PCE)	1,985,296	525,618	1,717	20
7/1/2016	TETRACHLOROETHYLENE(PCE)	1,985,318	525,710	1,623	20
7/1/2017	TETRACHLOROETHYLENE(PCE)	1,985,321	525,684	1,646	20
7/1/2018	TETRACHLOROETHYLENE(PCE)	1,985,293	525,609	1,726	20
7/1/2019	TETRACHLOROETHYLENE(PCE)	1,985,247	525,482	1,862	20
7/1/2020	TETRACHLOROETHYLENE(PCE)	1,985,264	525,424	1,911	20

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events). Moments are not calculated for sample events with less than 6 wells.

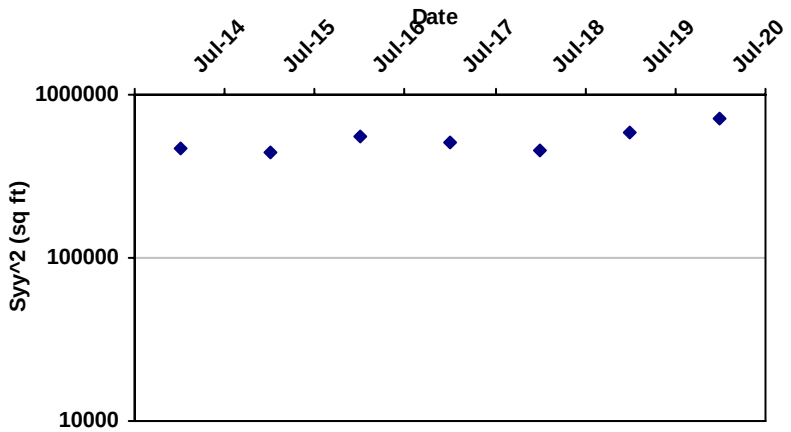
MAROS Second Moment Analysis

Project:Delavan Spray Technologies - Deep (Limestone) Aquifer | User Name: Leslee Alexander

Location: Bamberg | State: South Carolina

Change in Plume Spread Over Time

COC: TETRACHLOROETHYLENE(PCE)



Mann-Kendall S Statistic:

11

Confidence in Trend:

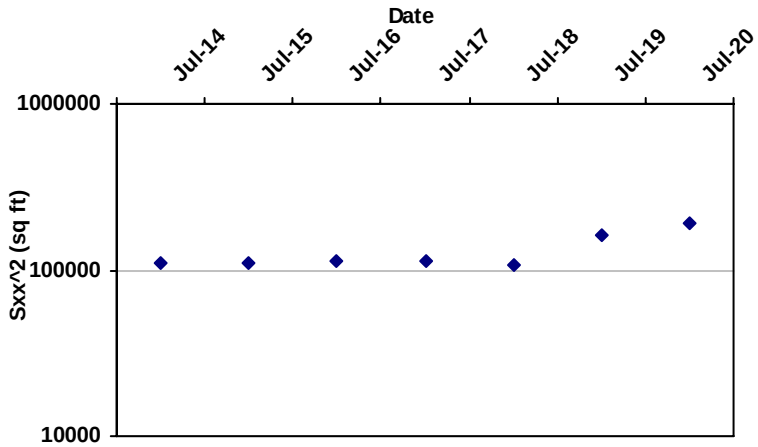
93.2%

Coefficient of Variation:

0.18

Second Moment Trend:

PI



Mann-Kendall S Statistic:

9

Confidence in Trend:

88.1%

Coefficient of Variation:

0.25

Second Moment Trend:

NT

Data Table:

Effective Date	Constituent	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
7/1/2014	TETRACHLOROETHYLENE	111,182	470,124	20
7/1/2015	TETRACHLOROETHYLENE	108,872	446,165	20
7/1/2016	TETRACHLOROETHYLENE	114,258	559,061	20
7/1/2017	TETRACHLOROETHYLENE	111,724	510,455	20

MAROS Second Moment Analysis

Project:Delavan Spray Technologies - Deep (Limestone) Aquifer

User Name: Leslee Alexander

Location: Bamberg

State: South Carolina

Data Table:

Effective Date	Constituent	Sigma XX (sq ft)	Sigma YY (sq ft)	Number of Wells
7/1/2018	TETRACHLOROETHYLENE	108,040	459,349	20
7/1/2019	TETRACHLOROETHYLENE	162,807	583,151	20
7/1/2020	TETRACHLOROETHYLENE	189,515	718,667	20

Note: Increasing (I); Probably Increasing (PI); Stable (S); Probably Decreasing (PD); Decreasing (D); No Trend (NT); Not Applicable (N/A) - Due to insufficient Data (< 4 sampling events)

The Sigma XX and Sigma YY components are estimated using the given field coordinate system and then rotated to align with the estimated groundwater flow direction. Moments are not calculated for sample events with less than 6 wells.