From: Fitzgerald, Conan <conan.fitzgerald@aecom.com>
Sent: Friday, March 11, 2022 10:50 AM
To: Devlin, Cynde <devlincl@dhec.sc.gov>
Cc: Alexander, Leslee (Greenville) <Leslee.Alexander@aecom.com>; 'DiNardo, Paul M RTX' <paul.dinardo@rtx.com>; Morris, Dianna <DIANNA.MORRIS@aecom.com>
Subject: Delavan Monitoring report revision1

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Cynde,
Attached is the updated report. Next week we will forward a replacement cd and replacement pages for:

- Section 3
- The last page of Table 1
- Figure 5
- Appendix B pdf page 140
- Appendix B pdf page 161

Please contact me with any questions.

Conan Fitzgerald PE, AECOM Technical Services of North Carolina
Associate Vice President, Engineering Manager
Environment-Carolinas
D +1-919-461-1260
M +1-919-349-5486
conan.fitzgerald@aecom.com

AECOM
5438 Wade Park Boulevard, Suite 200
Raleigh, NC 27607, USA
T +1-919-461-1100
aecom.com

51778

AECOM
10 Patewood Drive
Bldg 6, Suite 500
Greenville, South Carolina 29615
www aecom com

864 234 3000 tel
864 234 3069 fax

Email Scanned
PM Copy

March 11, 2022

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SITE ASSESSMENT,
REMEDIATION &
REVITALIZATION

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

Re: Fall 2021 Semi-Annual Groundwater Monitoring Report, Revision 1
Delavan Spray Technologies Site
Bamberg, South Carolina
SCDHEC VCC Number 13-4762-RP
SCDHEC File Number 51778
AECOM Project Number 60656814

Dear Ms. Devlin.

AECOM Technical Services, Inc. (AECOM) has this revision of the Fall 2021 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. Section 3 has been updated to reflect a correction in water elevation for MW-24. The correction is also noted in Appendix B (Field Documentation) on pdf pages 140 and 161.

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

Sincerely,

AECOM Technical Services, Inc.

Conan Fitzgerald, P.E.
Project Manager
919-461-1260
conan fitzgerald@aecom com

Leslee J. Alexander, P.G.
Project Hydrogeologist
864-234-2282
leslee.alexander@aecom com

cc: Paul DiNardo – Raytheon Technologies Corporation
Project File 60314964\60656814

51778

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Fall 2021 Semi-Annual Groundwater Monitoring Report
Revision 1

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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SITE ASSESSMENT,
REMEDIATION, &
REVITALIZATION

Revision 1 Date
March 11, 2022

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FALL 2021 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

DELAVAN SPRAY TECHNOLOGIES SITE
BAMBERG, SOUTH CAROLINA

RESPONSIBILITY PARTY VOLUNTARY CLEANUP CONTRACT NUMBER 13-4762

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

Prepared by:

Mariah Rockwell
AECOM Geologist

February 10, 2022
Date

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

March 11, 2022
Date

Reviewed by:

Conan Fitzgerald
AECOM Project Manager

March 11, 2022
Date

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1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM) has prepared this *Fall 2021 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 2021 semi-annual groundwater sampling was completed to meet the on-going monitoring requirements of Voluntary Cleanup Contract (VCC) (VCC 13-4762-RP) that was signed between South Carolina Department of Health and Environmental Control (SCDHEC) and Delavan Spray, LLC (Delavan; SCDHEC, 2013) and in accordance with the *Remedial Investigation Work Plan* (Hart & Hickman, 2013) approved by SCDHEC October 22, 2013.

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

2.0 OVERVIEW OF THE SITE

The facility manufactures several types of metal spray nozzles for fuel oils. The Site is comprised of a main manufacturing building and smaller associated support buildings, which are located on approximately 20 acres. A Site layout map is provided as **Figure 2** 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 near monitoring wells MW-1, MW-9 and MW-10 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 their 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).

Following competition of the limestone aquifer delineation field work, personnel from Raytheon Technologies Corporation and AECOM, on behalf of Delavan, 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 SCDHEC on March 25, 2020 and SCDHEC approved the plan in correspondence dated April 7, 2020. Surface water sampling has been included in the semi-annual monitoring events since April 2020 and the results from the Fall 2021 are discussed in **Section 4.3**. of this report.

In addition to completing the off-site delineation, Delavan 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 SCDHEC in correspondence dated March 1, 2019. The HRSC investigation was completed in July 2020; the report was submitted on March 9, 2021 and approved by SCDHEC in correspondence dated April 19, 2021.

A call was held with SCDHEC on June 1, 2021 to discuss interim measures to address soil impacts at the Site. Subsequent to this call, an *Interim Removal Action Work Plan* (AECOM, June 2021) for installation of a soil vapor extraction (SVE) system beneath the facility building was submitted and was approved by SCDHEC in correspondence dated June 28, 2021. Implementation was started in summer 2021 and installation of the horizontal wells for the SVE system were completed in late September 2021. The remaining system components are expected to be installed in 2022. In November of 2021, per the request of the SCDHEC during the June 1 call, AECOM submitted a site wide Feasibility Study, which recommended Air Sparging as the groundwater remedy to be implemented to address groundwater exceedances, particularly underneath the building. The Feasibility Study is currently in review with SCDHEC.

2.2 Geology

The Site lies within the western portion of the South Carolina Coastal Plain Province, which is characterized as a seaward thickening wedge of sediments from the fall line to the coast. These sediments consist of

sands, silts, clays and limestones; representing a variety of non-marine and marine depositional environments.

For the purposes of Site characterization, the Delavan Spray Technologies Site geology has been subdivided into three general geologic zones by previous investigators. The upper zone consists of undifferentiated sands, clayey sands, sandy clays, and silts. In the northern portion of the Site, these sediments tend to contain a higher percentage of clay and silty layers. The middle zone consists of fossiliferous limestone; with a layer of pale yellow, poorly cemented, coarse shell fragments overlying a layer of white, 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 2021 semi-annual sampling activities were completed by AECOM personnel during October 18-20, 2021. 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 2020 Semi-Annual Groundwater Monitoring Report* (AECOM, February 2021).

Semi-annual groundwater monitoring activities included:

- Groundwater level measurements were collected from 46 existing monitoring wells (**Figure 3**);
- Groundwater samples were collected from 33 existing monitoring wells using low-flow sampling techniques. Groundwater indicator parameters were collected from each well and all 33 groundwater samples were submitted for analysis of VOCs;
- Surface water samples were collected from four locations (**Figure 3**):
    - 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 (2) 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 9 residential wells in conjunction with this event (**Figure 4**). Two residential wells were not functional at time of sampling and a sample could not be retrieved. 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 18, 2021, 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. During preparation of the Shallow Potentiometric Map (**Figure 5**) AECOM noted a significant difference between the initial depth to water recorded on October 18, 2021 (8.32 ft) and the depth to water at the beginning of purging the following day (14.40 ft). Since the shallowest previous depth to water had been 13.39 ft (4/2016), and none of the other wells were demonstrating water elevations five feet above normal, it was determined that the measurement on October 18 was inaccurate and should be discarded. Thus a depth to water of 14.40 ft, corresponding to a groundwater elevation of 133.45 ft was used.

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 18, 2021 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 2021 water levels within the shallow aquifer zone occur between 131.61 and 138.03 feet in elevation. Shallow water level elevations range from 0.3 feet lower to up to 0.9 feet higher than those collected during the fall 2020 groundwater monitoring event (October 2020). Compared to shallow aquifer zone water levels measured during the spring 2021 groundwater monitoring event (April 2021), October 2021 water levels are up to 2.6 feet lower. Shallow flow patterns resulting from the fall 2021 water level measurements are similar to those observed previously at the Site. The equal potential lines indicate groundwater flow beneath the Site varies between southwestward and westward flow directions, with local groundwater highs at MW-9 and MW-4. 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 Site. 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 2021 water level elevations within the deeper limestone aquifer zone, the potentiometric surface occurs between 128.26 feet and 133.95 feet in elevation (**Figure 6**). Groundwater elevations in October 2021 are within 0.9 feet of those measured during the spring 2021 groundwater monitoring event (April 2021) and within 0.2 feet of those collected during the fall 2020 groundwater monitoring event (October 2020). From the equal potential lines, the inferred horizontal groundwater flow direction is to the south-southwest across the Site and then turns to the southeast where surface water converges at Lemon Creek. The October 2021 potentiometric map for the deeper limestone aquifer 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 1.33E-02 feet per foot (ft/ft) at MW-16/MW-16D to 7.68E-02 ft/ft at MW-9/MW-9D. Upward gradients were evident in the vicinity of Half-Moon Branch (-4.53E-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-15D/MW-15D1 to a downward gradient at MW-3D/MW-3D1(5.97E-04 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 17 groundwater samples collected from shallow aquifer zone groundwater during the fall 2021 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, 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 (13 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 (47,500 µg/L) and MW-37 (16,200 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 14,500 µg/L. Elevated but lower concentrations of PCE were detected in shallow aquifer groundwater in MW-24 (1,230 µg/L) along the western fence line, in MW-20 (187 µg/L) located near the Former Southern PCE Degreaser, in MW-9 (123 µg/L) and MW-10 (90.8 µg/L) located in the wooded areas of interest, in MW-8 (315 µg/L) located in the asphalt parking lot northeast of the main Facility building, in MW-3 (117 µg/L) downgradient of the Former PCE Secondary Containment Area, and in MW-1 (108 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 five (5) groundwater samples – MW-1 (8.6 µg/L), MW-8 (50.1 µg/L), MW-9 (36.9 µg/L), MW-10 (94.2 µg/L), and MW-21 (263 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 (396 µg/L), and MW-21 (464 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 (30.1 µg/L) and MW-37 (93.5 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 366 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 2021) and recent (April 2021) 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 tolerable range for the reductive pathway in three (3) shallow monitoring wells sampled in October 2021 (i.e., MW-9, MW-10, and MW-21) and not tolerated in three (3) shallow monitoring wells (MW-5, MW-14, and MW-27). ORP is not favorable for any shallow monitoring wells in October 2021. The pH was not in the favorable range except for 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.)	2.28	6.68	4.17	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.15	5.37	2.49	<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)	124.0	339.7	263.9	<50 millivolts (mV) - Reductive pathway possible <-100mV - Reductive pathway likely

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

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 108 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 current PCE concentration of 123 µg/L, which is the lowest value since the well was installed in 2003. 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 90.8 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 since fall 2018. The current PCE concentration in MW-5 is 1.4 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 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 77.3 µg/L in October 2017. The current concentration (117 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 were on an increasing trend until reaching 355 µg/L in October 2020. The current concentration of 315 µg/L is within the recent range of values for this well. The October 2021 TCE concentration for MW-8 (50.1 µg/L) is the highest value for this well since it was installed in 2003. Similarly, cis-1,2-DCE was also detected at its highest concentration ever (10.4 µg/L), possibly providing some evidence of reductive dichlorination in this area.

Concentrations of PCE in groundwater from MW-19, located near the northern-most Former PCE Degreaser exhibited an increasing trend between October 2014 (3,470 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 a record high of 53,900 µg/L in April 2021. The current value (47,500 µg/L in October 2021) is within the recent range for this 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 2,320 µg/L in November 2018. Concentrations in this well have since decreased and the current PCE concentration in MW-24 is 1,230 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 187 µg/L in October 2021, 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 14,500 µg/L in October 2021. The TCE concentration in MW-21 has 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 263 µg/L.

Deeper Limestone Aquifer Zone Monitoring Wells

VOCs

Sixteen (16) groundwater samples were collected from the deeper limestone aquifer zone groundwater during October 2021, resulting in five (5) VOCs (PCE, TCE, cis-1,2-DCE, 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 11 deeper aquifer zone groundwater samples and groundwater concentrations exceeded the MCL (5 µg/L) in all 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 (235 µg/L at MW-3D). PCE concentrations exceeded the MCL (5 µg/L) in on-site down-gradient monitoring wells MW-12D (31.3 µg/L), MW-13D (134 µg/L), and MW-21D (114 µg/L) and in off-Site down-gradient monitoring wells MW-

14D (47.4 µg/L), MW-22D (89.9 µg/L), MW-25D (115 µg/L), MW-26D (52.4 µg/L), MW-30D (85.9 µg/L), MW-31D (137 µg/L), and MW-32DR (14.3 µg/L).

TCE concentrations were detected in three (3) samples from the deeper aquifer zone in fall 2021. All of the detected concentrations were below the MCL of (5 µg/L), except for one sample in on-Site well MW-3D (5.7 µg/L). TCE was also detected in off-Site down-gradient wells MW-21D, and MW-26D, but at low concentrations below the MCL.

Cis-1,2-DCE was detected in four (4) samples from deeper limestone aquifer zone groundwater during the fall 2021 monitoring event (MW-3D, MW-21D, MW-26D, and MW-30D). None of the detected concentrations exceeded the MCL for cis-1,2-DCE (70 µg/L; **Table 4**).

For the deeper limestone aquifer, detections of Site COCs that exceed the MCLs are 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 2021; June 2021), 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. Dissolved oxygen values are within the optimal range in four wells (MW-14D, MW-21D, MW-33D, and MW-36D). ORP values measured in October 2021 are not favorable in deeper aquifer monitoring wells except for MW-21D and 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.)	5.18	8.80	6.63	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.28	3.95	1.95	<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)	-68.8	258.8	157.8	<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 31.3 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 (134 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 2021 concentration, 235 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 114 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/L. The current concentration is 47.4 µg/L and is the lowest value since November 2009. In some 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.

4.3 Surface Water Quality

Four surface water samples were collected in October 2021 (**Table 5** and **Figure 11**) for analysis of VOCs as requested by SCDHEC and discussed in **Section 2.1**. PCE was detected at a low concentration in one sample from SW-01-LC (2.8 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 (WCS) for PCE based on consumption of an organism only (3.3 µg/L; SCDHEC, June 2014). Chloroform (0.8 J [estimated] µg/L) and methyl chloride (0.8 J [estimated] µg/L) were detected at estimated concentrations below their MCLs and WCS values in surface water sample SW-03-HMB. No other VOCs were detected in surface water samples in October 2021 (**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 SCDHEC 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. Delavan Spray Technologies Site personnel are overseeing 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 **Table 8**. 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**. No data 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**. Detections of toluene in samples from laboratory packages FA90040 and FA89990 (except Trip Blank 1, Trip Blank 2, Trip Blank 3, and Trip Blank 4) and detections of methyl bromide in any sample (except Trip Blank) in samples from laboratory package FA90040 were qualified "/B/T" due to the presence of the analyte in the sample and associated trip blank samples. No other flags were added to primary samples in **Table 4** or **Table 5** 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. Results of trans-1,3-dichloropropene and methyl bromide were qualified "/M/m" due to recovery below the established criteria of 40-160% in the associated matrix spike sample (1 and 27%, respectively). These qualifiers indicate the results should be considered biased low. Results of trans-1,3-dichloropropene and methyl bromide were qualified "/M/D" due to the relative percent difference between the associated matrix spike and matrix spike duplicate samples exceeding the established criteria of 35% (195 and 44%, respectively). These qualifiers indicate imprecision with laboratory methodology, instrumentation, or matrix interference. No other qualifiers were added as a result of the evaluation of MS/MSD samples from this event.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are submitted based on the evaluation of the fall 2021 semi-annual monitoring results and a limited comparison to previous sampling results:

- Shallow water levels in October 2021 ranged from 2.6 feet lower to 5 feet higher than those collected during the spring 2021 groundwater monitoring event (April 2021) and as much as 5.8 feet higher than those measured during the fall 2020 groundwater monitoring event (October 2020). In the deeper limestone aquifer, groundwater elevations in October 2021 were within 0.9 feet of those measured during the spring 2021 groundwater monitoring event (April 2021) and were within 0.2 feet of those measured during the fall 2020 groundwater monitoring event (October 2020). 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 fall 2020 and spring 2021 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 2021 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 Site COCs with the exception of PCE (2.8 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 WCS 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 2022. The groundwater and surface water monitoring will be conducted in accordance with Table 9, which presents the SCDHEC-approved sampling plan from the *Fall 2021 Semi-Annual Groundwater Monitoring Report* (AECOM, March 2021).

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 event in 2022 (**Table 10**, originally included in the *Fall 2021 Semi-Annual Groundwater Monitoring Report*). Residential well samples will be collected both pre- and post-treatment.

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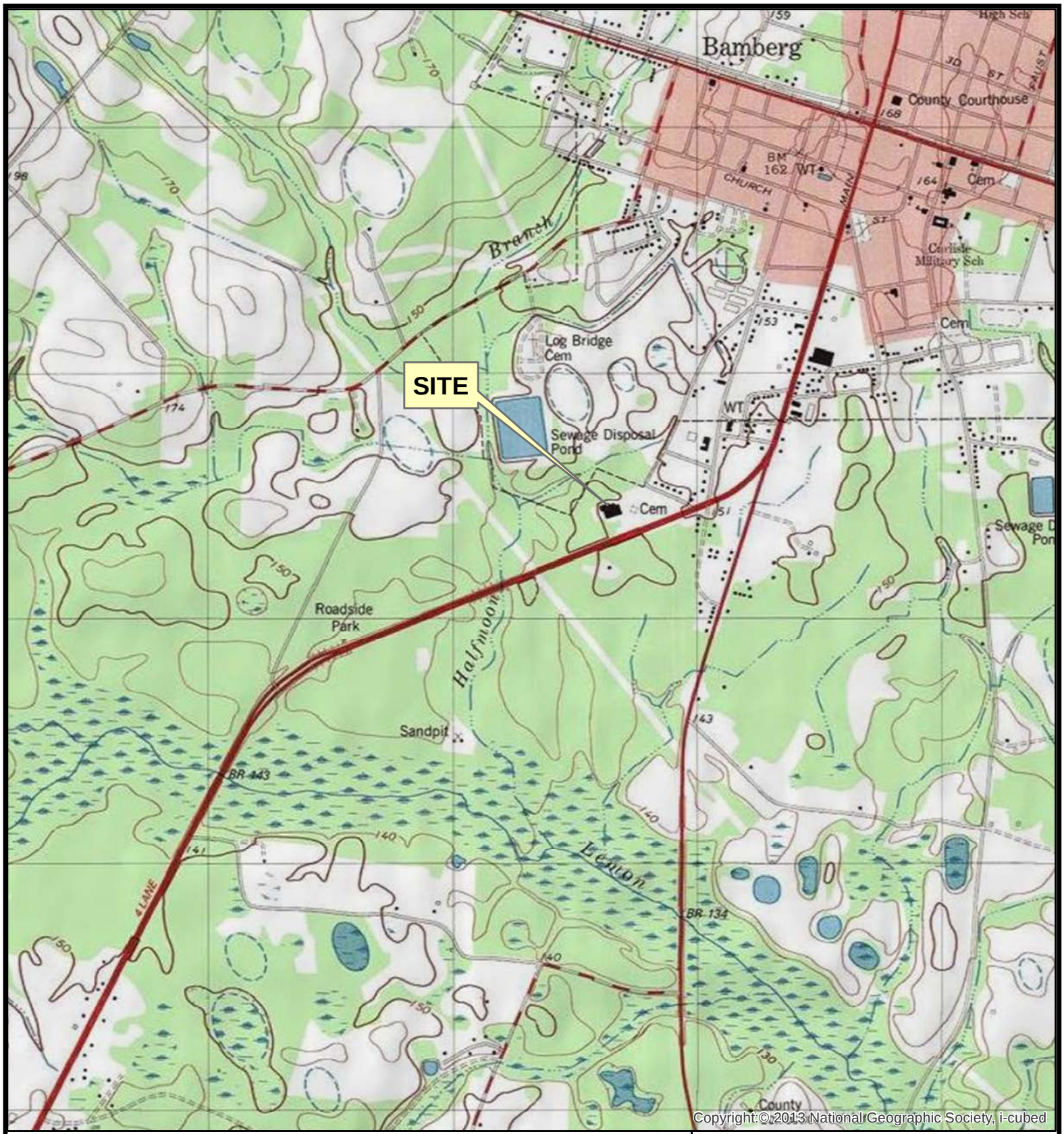
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FIGURES



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U.S.G.S. QUADRANGLE MAP

BAMBERG, SC 1979 (PHOTO REVISED 1987)

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

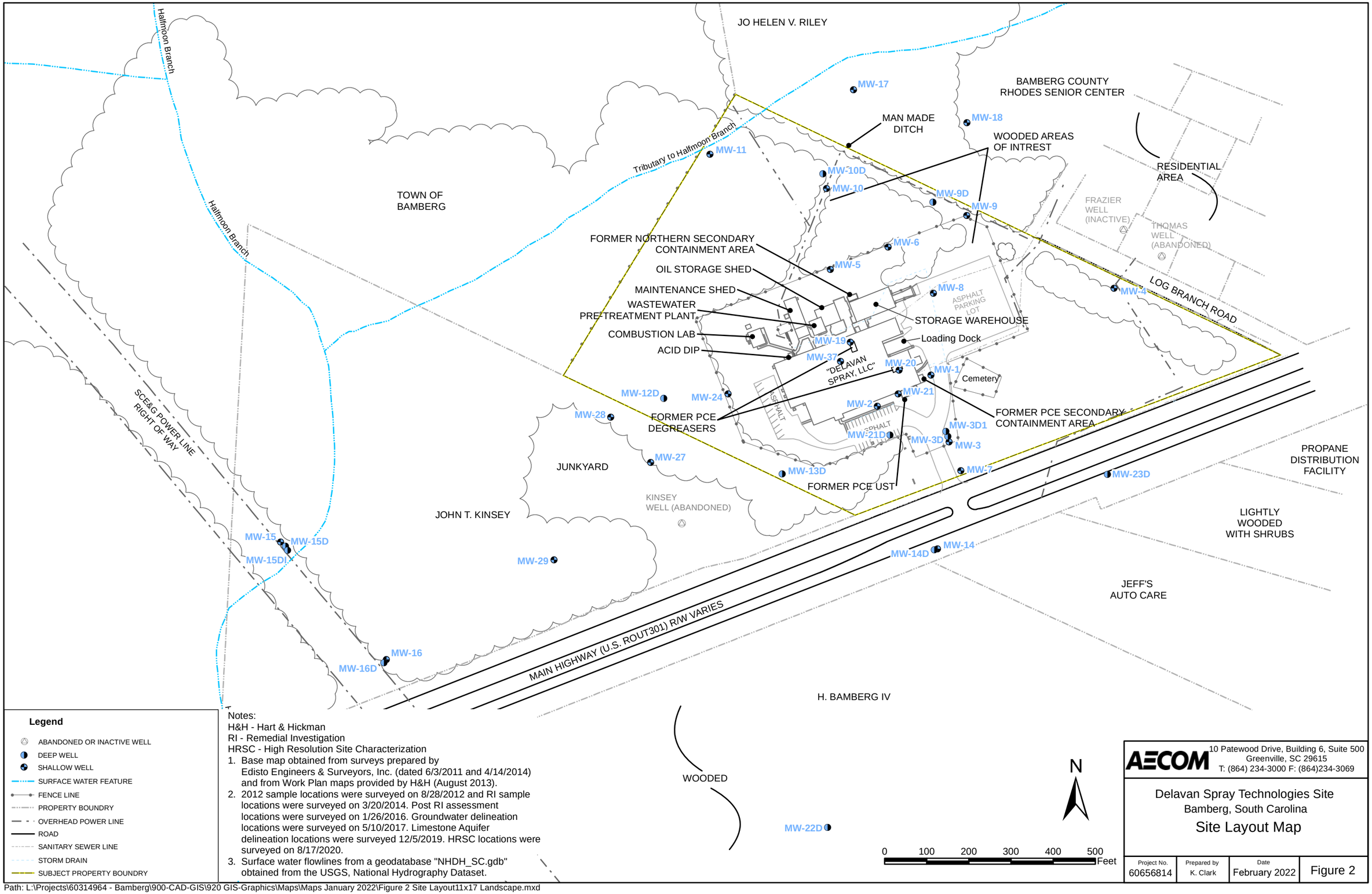
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-3000 F: (864)234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Site Location Map

Project No.	Prepared by	Date	
60656814	KCG	February 2022	Figure 1

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\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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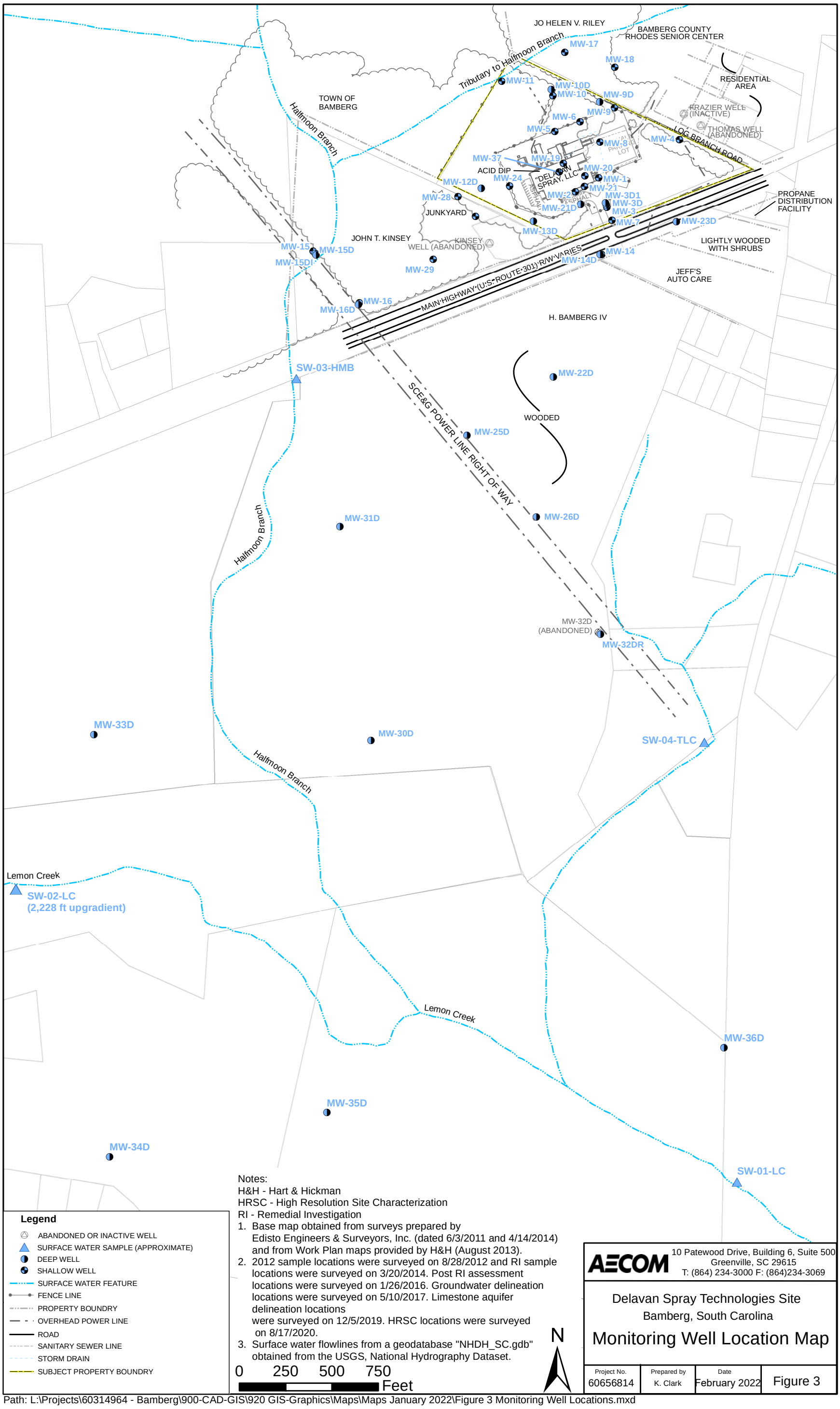
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-3000 F: (864)234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Site Layout Map

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 2

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Legend

- ABANDONED OR INACTIVE WELL
- SURFACE WATER SAMPLE (APPROXIMATE)
- 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
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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).
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3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

0 250 500 750 Feet

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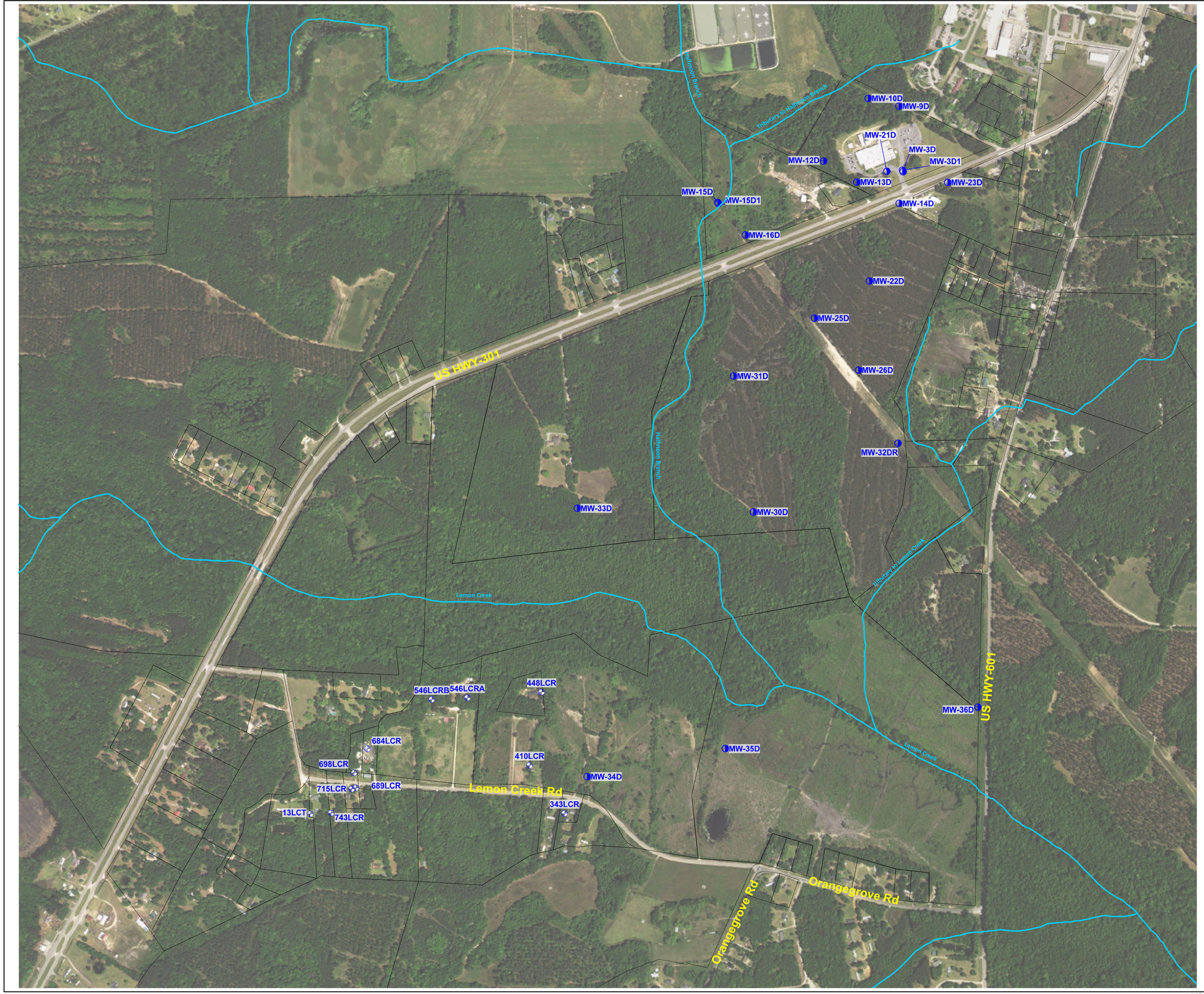
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
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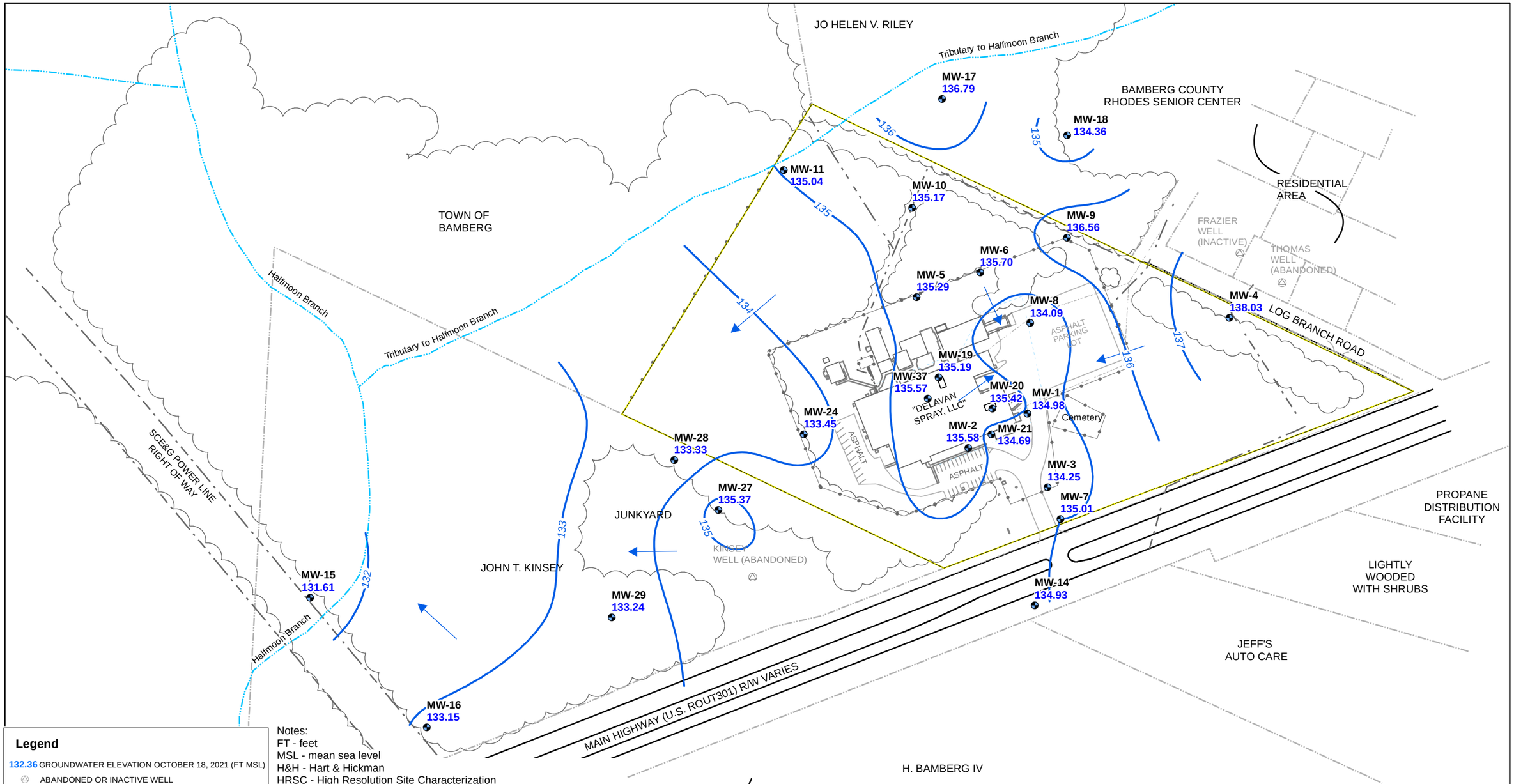
Delavan Spray Technologies Site
Bamberg, South Carolina

Monitoring Well Location Map

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 3

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 3 Monitoring Well Locations.mxd


MW-10D
MW-9D
MW-21D
MW-3D
MW-3D1
MW-12D
MW-13D
MW-23D
MW-15D
MW-15D1
MW-14D
MW-16D
MW-22D
MW-25D
MW-31D
MW-26D
MW-32DR
MW-33D
MW-30D
MW-36D
MW-35D
MW-34D
546LCRB
546LCRA
448LCR
684LCR
698LCR
410LCR
715LCR
689LCR
343LCR
13LCT
743LCR
US HWY-301
US HWY-601
Lemon Creek Rd
Orangegrove Rd
Orangegrove Rd
Lemon Creek
Tributary to Lemon Creek
Tributary to Lemon Creek
Tributary to



Legend

- 132.36 GROUNDWATER ELEVATION OCTOBER 18, 2021 (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 18, 2021.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
5. The groundwater elevation from MW-24 is from 10/19/21 because the measurement on 10/18/21 was anomalous.

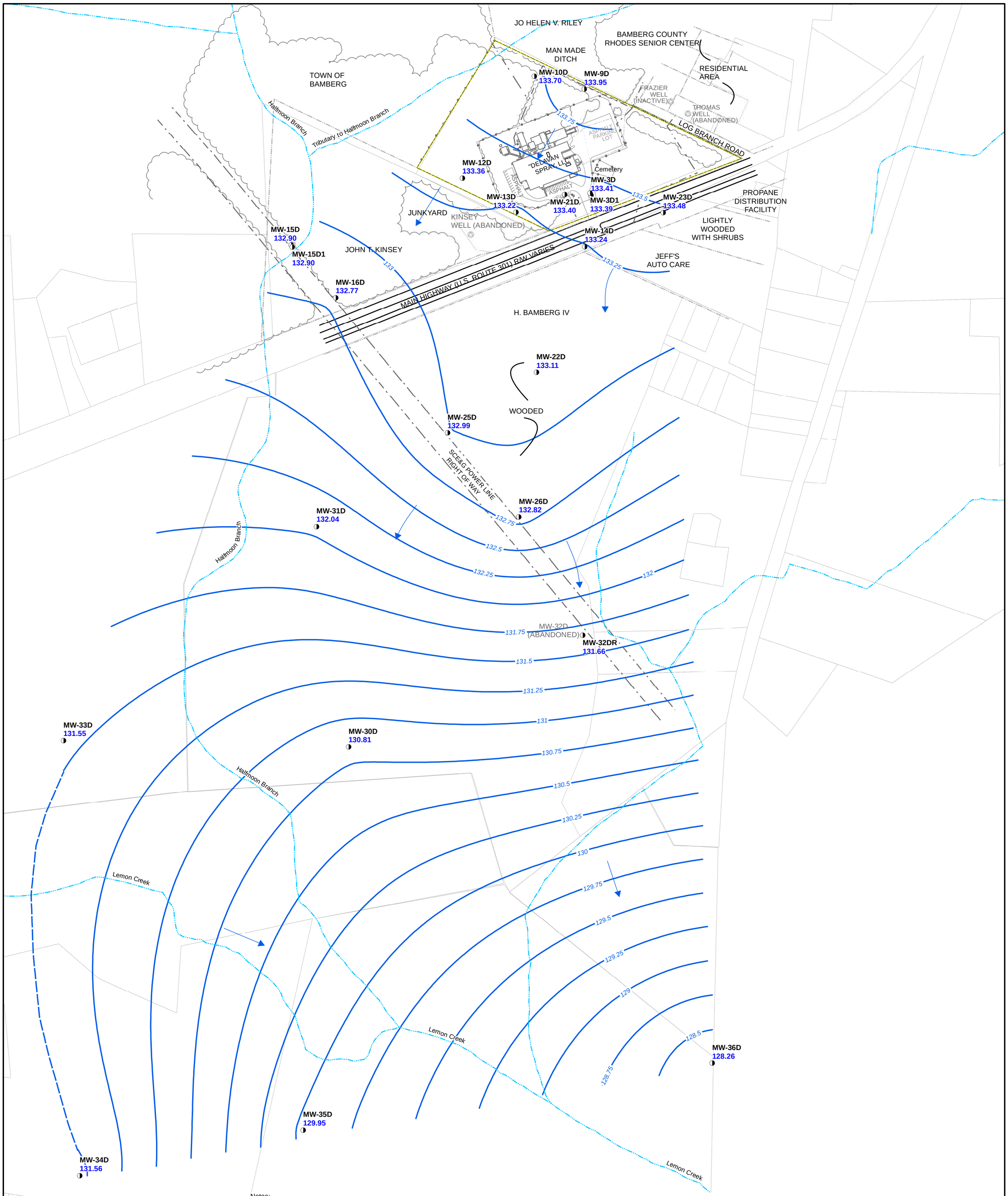
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Delavan Spray Technologies Site
Bamberg, South Carolina

Shallow Potentiometric Map October 2021

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 5

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 5 ShallowPotRev1.mxd



Legend

128.48 GROUNDWATER ELEVATION OCTOBER 18, 2021 (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
NS - Not Sampled; Posted result is from October 2020

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 October 18, 2021.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
5. Contours a re da shed where they a re inferred.

N

0 250 500 750 Feet

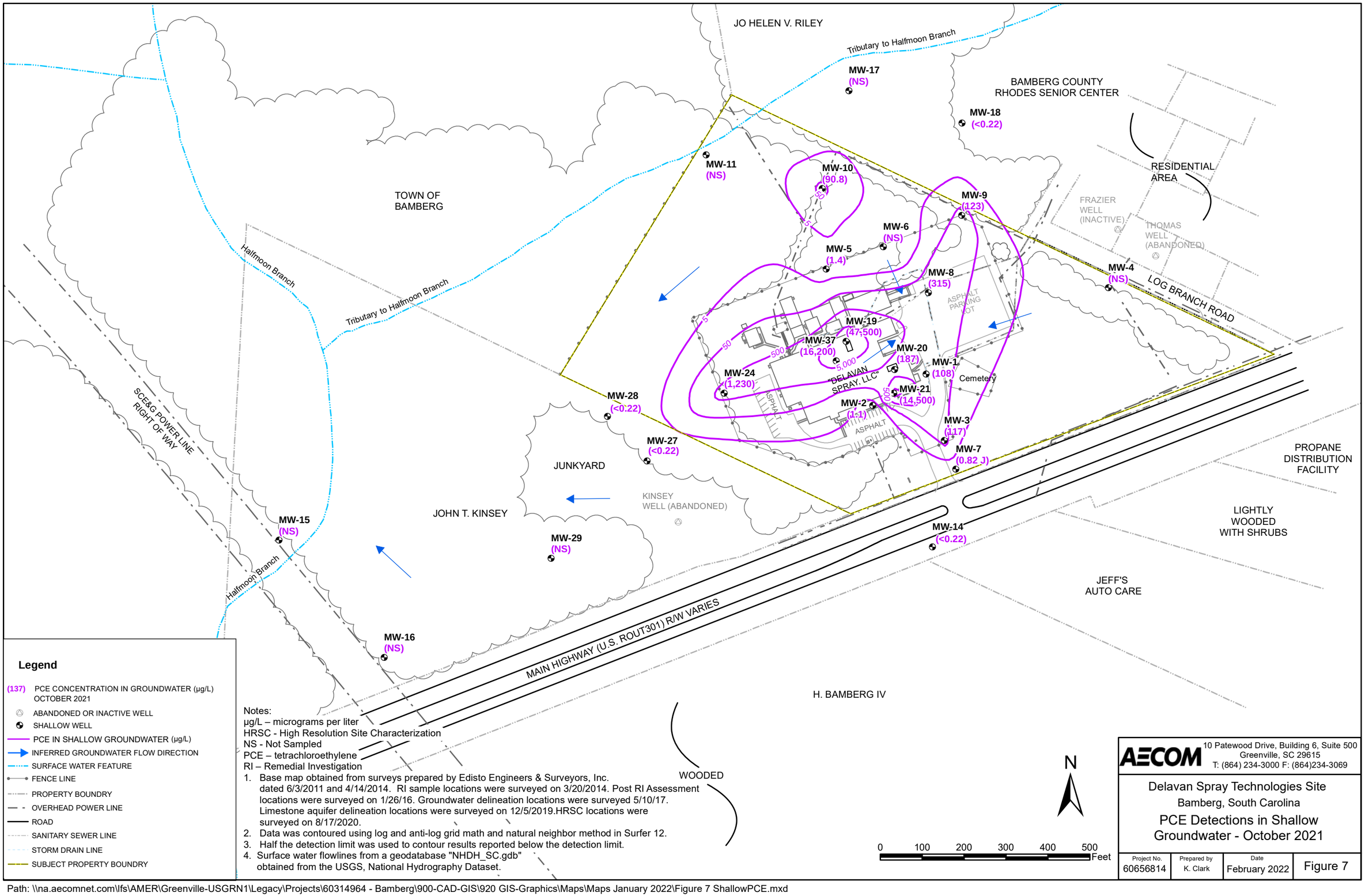
AECOM
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Greenville, SC 29615
T: (864) 234-3000 F: (864)234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Deep Potentiometric Map October 2021

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 6

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 6 Deep Pot.mxd



Legend

- (137) PCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2021
- 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
PCE – tetrachloroethylene
RI – Remedial Investigation

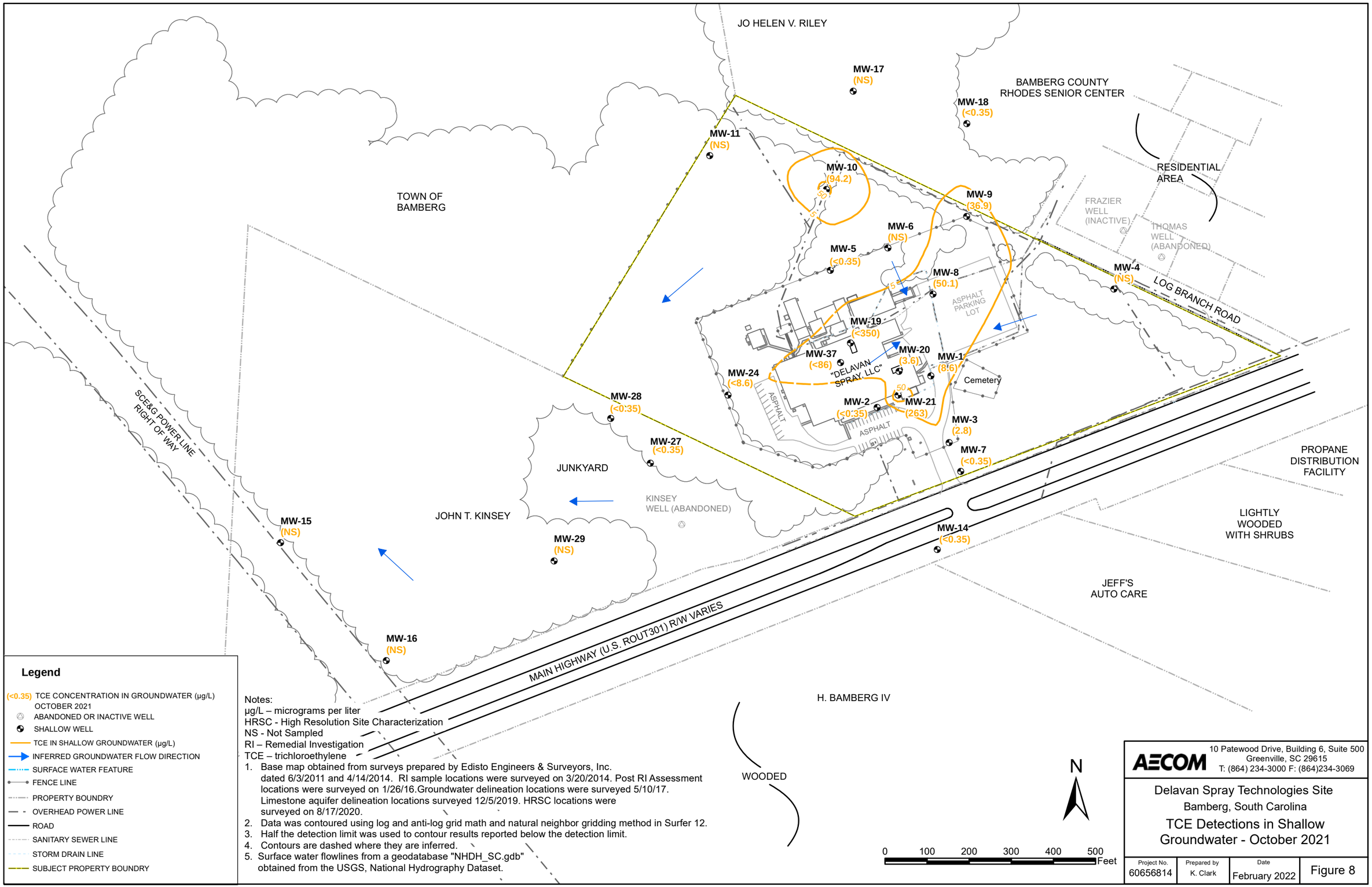
1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16. Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation 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.

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Delavan Spray Technologies Site
Bamberg, South Carolina
PCE Detections in Shallow Groundwater - October 2021

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 7

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 7 ShallowPCE.mxd



Legend

- (<0.35) TCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2021
- 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
NS - Not Sampled
RI – Remedial Investigation
TCE – trichloroethylene

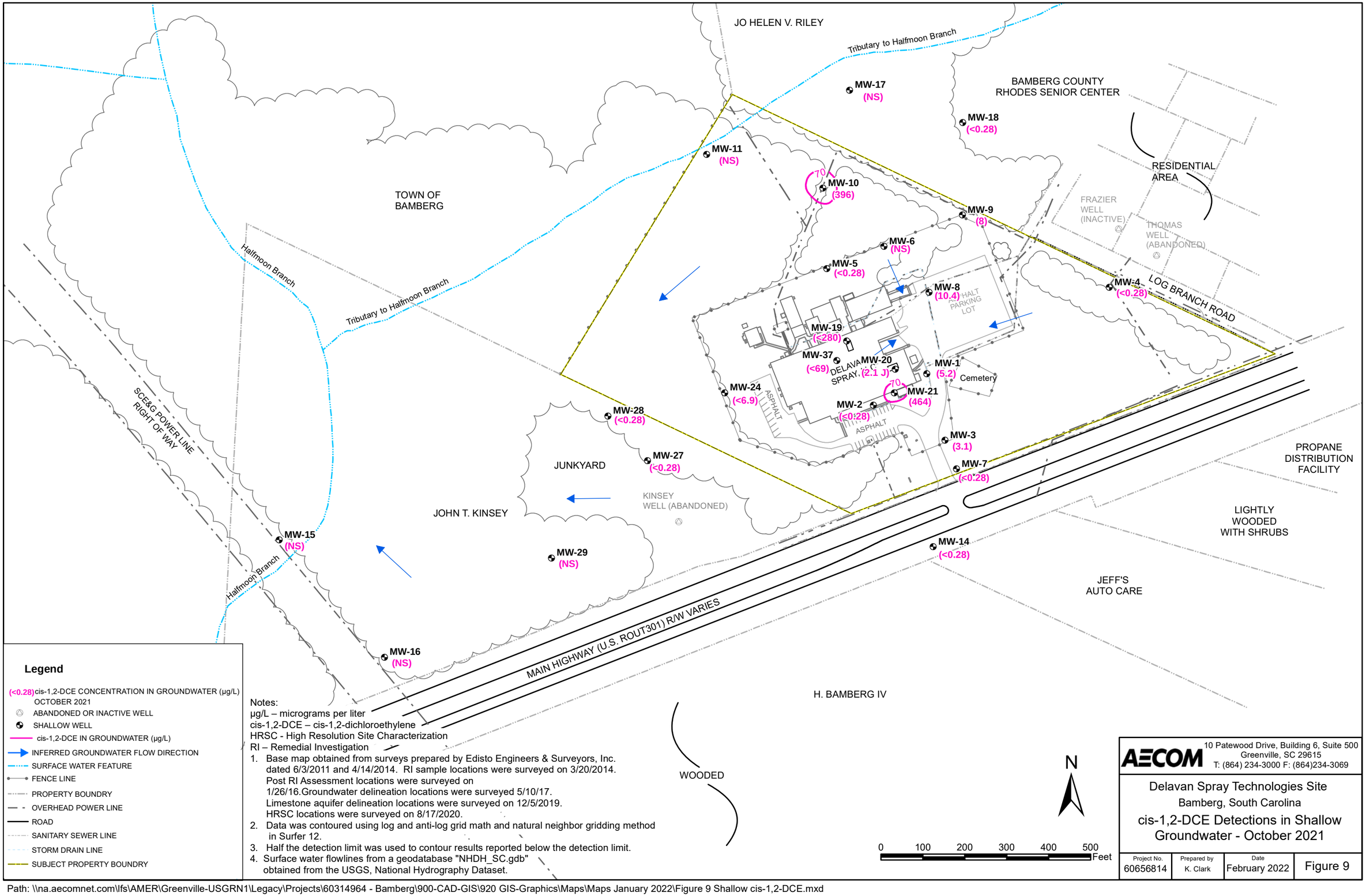
1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16.Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation locations 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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10 Patewood Drive, Building 6, Suite 500
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Delavan Spray Technologies Site
Bamberg, South Carolina
TCE Detections in Shallow Groundwater - October 2021

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 8

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 8 ShallowTCE1.mxd



Legend

- (<0.28) cis-1,2-DCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2021
- 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 2021

Project No.	Prepared by	Date	
60656814	K. Clark	February 2022	Figure 9

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 9 Shallow cis-1,2-DCE.mxd

JO HELEN V. RILEY

BAMBERG COUNTY
RHODES SENIOR CENTER

MAN MADE
DITCH

TOWN OF
BAMBERG

MW-10D
(<0.22)

MW-9D
(NS)

RESIDENTIAL
AREA

FRAZIER
WELL
(INACTIVE)

THOMAS
WELL
(ABANDONED)

Halfmoon Branch

Tributary to Halfmoon Branch

LOG BRANCH ROAD

ASPHALT
PARKING
LOT

"DELAVAN
SPRAY, LLC"

Cemetery

MW-12D
(31.3)

MW-3D
(235)

MW-13D
(134)

MW-21D
(114)

MW-3D1
(NS)

MW-23D
(NS)

PROPANE
DISTRIBUTION
FACILITY

JUNKYARD

KINSEY
WELL (ABANDONED)

LIGHTLY
WOODED
WITH SHRUBS

MW-15D
(NS)

MW-14D
(47.4)

JOHN T. KINSEY

MW-15D1
(NS)

JEFF'S
AUTO CARE

MW-16D
(NS)

MAIN HIGHWAY (U.S. ROUTE 301) R/W VARIES

H. BAMBERG IV

MW-22D
(89.9)

SW-03-HMB
(<0.22)

WOODED

MW-25D
(115)

SCE&G POWER LINE
RIGHT OF WAY

MW-26D
(52.4)

MW-31D
(137)

Halfmoon Branch

MW-32D
(ABANDONED)

MW-32DR
(14.3)

MW-33D
(<0.22)

MW-30D
(85.9)

SW-04-TLC
(<0.22)

Halfmoon Branch

Lemon Creek

SW-02-LC (2,228 ft upgradient)
(<0.22)

Lemon Creek

MW-36D
(<0.22)

MW-35D
(<0.22)

MW-34D
(<0.22)

Lemon Creek

SW-01-LC
(2.8)

Legend

- (<0.22) PCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2021
- ABANDONED OR INACTIVE WELL
- SURFACE WATER SAMPLE (APPROXIMATE)
- 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
NS - Not Sampled
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

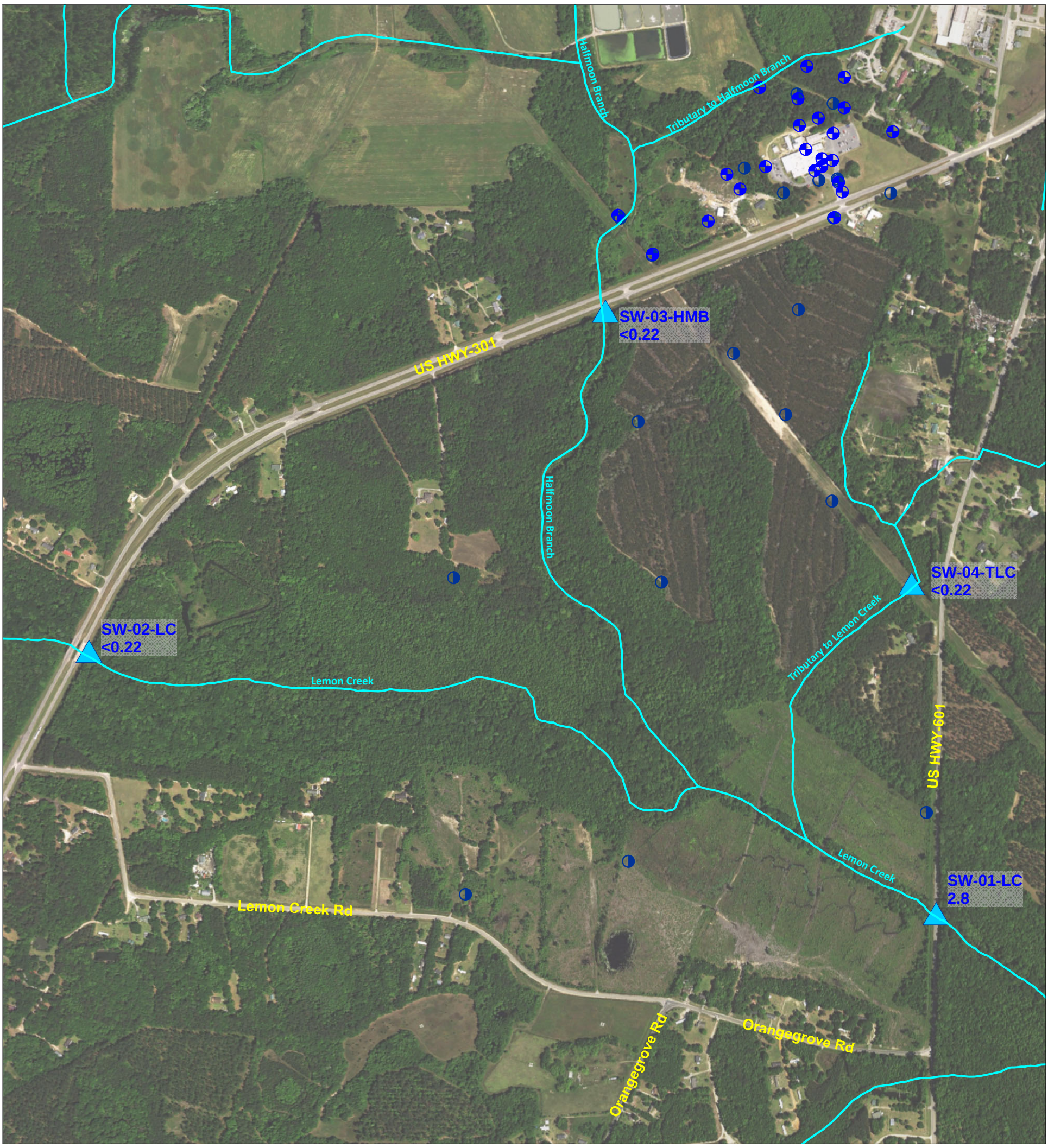
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Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Deeper Groundwater - October 2021

Project No.	Prepared by	Date	
60656814	K.Clark	February 2022	Figure 10

Path: L:\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2022\Figure 10 DeepPCE.mxd



LEGEND

- Surface Water Sample Location
- <0.22 PCE Concentration in Surface Water - October 2021
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Surface Water

N

0 750 1500

FEET

AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-2300 F: (864) 234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Surface Water October 2021

Project No.	Prepared by	Date	
60656814	L. Alexander	February 2022	Figure 11

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2021 Plume Maps\Oct 2021 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

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)	10/18/2021	
							Depth to Water (ft btoc)	Elevation (ft msl)
MW-1	18	--	3-18	Shallow	147.56	147.19	12.21	134.98
MW-2	18	--	3-18	Shallow	147.81	147.63	12.05	135.58
MW-3	18	--	3-18	Shallow	148.34	148.11	13.86	134.25
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	14.71	133.41
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	14.54	133.39
MW-4	14	--	4-14	Shallow	147.30	147.03	9.00	138.03
MW-5	14	--	4-14	Shallow	145.34	145.46	10.17	135.29
MW-6	14	--	4-14	Shallow	143.45	143.22	7.52	135.70
MW-7	20	--	5-20	Shallow	149.25	149.03	14.02	135.01
MW-8	20	--	5-20	Shallow	145.95	145.66	11.57	134.09
MW-9	20	--	5-20	Shallow	144.11	143.89	7.33	136.56
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	10.25	133.95
MW-10	18	--	3-18	Shallow	142.56	142.19	7.02	135.17
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	8.09	133.70
MW-11	18	--	3-18	Shallow	143.77	143.16	8.12	135.04
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	14.29	133.36
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	13.01	133.22
MW-14	20	--	5-20	Shallow	147.05	146.90	11.97	134.93
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	13.64	133.24
MW-15	18	--	4-19	Shallow	136.13	135.73	4.12	131.61
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	2.69	132.90
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	2.79	132.90
MW-16	19	--	4-19	Shallow	138.74	138.30	5.15	133.15
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	5.61	132.77
MW-17	28.4	--	13-28	Shallow	142.07	141.66	4.87	136.79
MW-18	26.4	--	11-26	Shallow	145.68	145.41	11.05	134.36
MW-19	20.15	--	5-20	Shallow	148.47	148.22	13.03	135.19
MW-20	15.15	--	5-15	Shallow	148.50	148.19	12.77	135.42
MW-21	34.4	--	19-34	Shallow	148.43	147.97	13.28	134.69
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	13.52	133.40
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	12.85	133.11
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	14.78	133.48
MW-24	21	--	6-21	Shallow	148.52	147.85	14.40	133.45
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	6.22	132.99
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	10.82	132.82
MW-27	29	--	19 - 29	Shallow	145.93	145.78	10.41	135.37
MW-28	29	--	19 - 29	Shallow	146.35	146.12	12.79	133.33
MW-29	29	--	19 - 29	Shallow	141.03	140.55	7.31	133.24
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	5.20	130.81
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	9.35	132.04
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	Abandoned	
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	7.22	131.66
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	13.24	131.55
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	14.15	131.56
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	12.00	129.95
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	2.67	128.26
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	12.79	135.57

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).
5. The measured water level in MW-24 on 10/18/21 was 8.32, but the measured water level at time of sampling on 10/19/21 was 14.40, which makes more sense with the history. The reading from 10/18/21 appears to be anomalous.

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
10/18/2021	2.33E-02	5.97E-04	7.68E-02	4.20E-02	5.20E-02	-4.53E-02	0.00E+00	1.33E-02	6.00E-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	4.27	0.028	24.9	2.90	1.84	299.2
MW-2	4.58	0.020	22.7	0.00	0.52	176.60
MW-3	4.58	0.019	25.5	1.47	3.69	300.0
MW-3D	7.41	0.216	22.4	0.74	2.50	194.1
MW-5	2.54*	0.022	24.3	8.69	5.37	298.3
MW-7	4.40	0.016	23.6	0.00	4.69	294.7
MW-8	4.20	0.065	27.6	0.04	1.83	317.9
MW-9	3.99	0.029	21.5	22.0	0.30	227.9
MW-10	4.55	0.035	19.9	8.99	0.15	124.0
MW-10D	6.81	0.247	19.1	4.86	3.95	193.90
MW-12D	8.76	0.192	18.5	0.00	3.57	180.7
MW-13D	7.49	0.205	19.8	0.00	2.98	224.3
MW-14	2.74*	0.026	24.8	9.70	5.31	280.9
MW-14D	5.84	0.245	23.2	10.16	0.32	129.3
MW-18	3.90	0.050	21.3	3.45	1.12	198.7
MW-19	4.09	0.076	22.1	0.00	1.16	339.7
MW-20	4.24	0.030	24.3	0.00	2.69	272.3
MW-21	4.42	0.016	21.5	0.00	0.15	229.0
MW-21D	7.65	0.207	20.8	0.00	0.31	-24.6
MW-22D	6.07	0.290	23.2	17.10	2.40	168.3
MW-24	2.28*	0.019	21.2	12.01	4.47	313.8
MW-25D	6.25	0.293	21.7	7.04	2.34	185.0
MW-26D	6.05	0.298	21.4	4.80	1.88	202.2
MW-27	4.54	0.033	20.6	0.77	5.12	315.3
MW-28	6.68	0.154	19.40	2.84	1.65	193.5
MW-30D	6.22	0.290	19.70	3.69	2.37	258.8
MW-31D	5.93	0.277	19.8	4.78	3.78	241.9
MW-32DR	5.80	0.212	21.7	9.99	0.95	196.6
MW-33D	5.90	0.244	20.5	6.41	0.28	144.9
MW-34D	8.80	0.159	16.9	5.98	0.81	143.2
MW-35D	5.87	0.257	19.4	5.58	2.33	155.5
MW-36D	5.18	0.312	19.4	10.31	0.39	-68.8
MW-37	4.11	0.062	21.20	0.18	4.12	335.4

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
* - probably instrument error

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

Sample ID		MW-1		MW-2		MW-3		MW-3D		MW-5	
Lab Sample ID	USEPA	FA90040-5		FA90040-10		FA89990-26		FA89990-22		FA90040-6	
Date Collected	MCL	10/19/21		10/20/21		10/19/21		10/19/21		10/19/21	
Volatile Organic Compounds by Method 8260D (µg/L)											
1,1,1-Trichloroethane	200	< 0.25		< 0.25		< 0.5		< 1.2		< 0.25	
1,1-Dichloroethylene	7	< 0.32		< 0.32		< 0.64		**5.3**		< 0.32	
cis-1,2-Dichloroethylene	70	**5.2**		< 0.28		**3.1**		**8.2**		< 0.28	
Tetrachloroethylene	5	**108**		**1.1**		**117**		**235**		**1.4**	
Toluene	1000	**1.6**	**/B/T**	**2.1**	**/B/T**	**2**	**/B/T**	< 1.5		< 0.3	
Trichloroethylene	5	**8.6**		< 0.35		**2.8**		**5.7**		< 0.35	

Sample ID		MW-7		MW-8		MW-9		MW-10		MW-10D	
Lab Sample ID	USEPA	FA90040-14		FA90040-7		FA89990-5		FA89990-6		FA89990-8	
Date Collected	MCL	10/20/21		10/19/21		10/18/21		10/18/21		10/18/21	
Volatile Organic Compounds by Method 8260D (µg/L)											
1,1,1-Trichloroethane	200	< 0.25		< 0.62		< 0.5		< 0.5		< 0.25	
1,1-Dichloroethylene	7	< 0.32		< 0.81		< 0.64		**30.1**		< 0.32	
cis-1,2-Dichloroethylene	70	< 0.28		**10.4**		**8**		**396**		< 0.28	
Tetrachloroethylene	5	**0.82**	**J//**	**315**		**123**		**90.8**		< 0.22	
Toluene	1000	**1.6**	**/B/T**	**1.3**	**J/B/T**	< 0.6		**0.76**	**J/B/T**	**0.82**	**J/B/T**
Trichloroethylene	5	< 0.35		**50.1**		**36.9**		**94.2**		< 0.35	

Sample ID		MW-12D		MW-13D		MW-14		MW-14D		MW-18	
Lab Sample ID	USEPA	FA89990-12		FA89990-21		FA89990-25		FA89990-23		FA89990-3	
Date Collected	MCL	10/19/21		10/19/21		10/19/21		10/19/21		10/18/21	
Volatile Organic Compounds by Method 8260D (µg/L)											
1,1,1-Trichloroethane	200	< 0.25		< 0.5		< 0.25		< 0.25		< 0.25	
1,1-Dichloroethylene	7	**0.41**	**J//**	**2.4**		< 0.32		**0.93**	**J//**	< 0.32	
cis-1,2-Dichloroethylene	70	< 0.28		< 0.55		< 0.28		< 0.28		< 0.28	
Tetrachloroethylene	5	**31.3**		**134**		< 0.22		**47.4**		< 0.22	
Toluene	1000	**0.49**	**J/B/T**	**2.1**	**/B/T**	**1.4**	**/B/T**	**0.6**	**J/B/T**	**4.4**	**/B/T**
Trichloroethylene	5	< 0.35		< 0.69		< 0.35		< 0.35		< 0.35	

Sample ID		MW-19		MW-20		MW-21		MW-21D		MW-22D	
Lab Sample ID	USEPA	FA89990-9		FA89990-4		FA90040-12		FA90040-8		FA89990-19	
Date Collected	MCL	10/18/21		10/18/21		10/20/21		10/20/21		10/19/21	
Volatile Organic Compounds by Method 8260D (µg/L)											
1,1,1-Trichloroethane	200	**366**	**J//**	< 0.62		< 50		< 0.25		< 0.25	
1,1-Dichloroethylene	7	< 320		< 0.81		< 64		**2**		**1.4**	
cis-1,2-Dichloroethylene	70	< 280		**2.1**	**J//**	**464**		**1.1**		< 0.28	
Tetrachloroethylene	5	**47500**		**187**		**14500**		**114**		**89.9**	
Toluene	1000	< 300		< 0.75		< 60		**2.1**	**/B/T**	**0.49**	**J/B/T**
Trichloroethylene	5	< 350		**3.6**		**263**		**0.69**	**J//**	< 0.35	

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

Sample ID		MW-24	MW-25D	MW-26D	MW-27	MW-28
Lab Sample ID	USEPA	FA90040-3	FA89990-14	FA89990-13	FA89990-18	FA89990-15
Date Collected	MCL	10/19/21	10/19/21	10/19/21	10/19/21	10/19/21
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 6.2	< 0.5	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	< 8.1	**2.5**	**0.99 J//**	< 0.32	< 0.32
cis-1,2-Dichloroethylene	70	< 6.9	< 0.55	**1**	< 0.28	< 0.28
Tetrachloroethylene	5	**1230**	**115**	**52.4**	< 0.22	< 0.22
Toluene	1000	< 7.5	< 0.6	**0.8 J/B/T**	**1.5 /B/T**	**1.2 /B/T**
Trichloroethylene	5	< 8.6	< 0.69	**1.1**	< 0.35	< 0.35

Sample ID		MW-30D	MW-31D	MW-32DR	MW-33D	MW-34D
Lab Sample ID	USEPA	FA89990-10	FA89990-11	FA89990-16	FA90040-13	FA90040-9
Date Collected	MCL	10/19/21	10/19/21	10/19/21	10/20/21	10/20/21
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.5	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	**1.7**	**3.4**	< 0.32	< 0.32	< 0.32
cis-1,2-Dichloroethylene	70	**1.2**	< 0.55	< 0.28	< 0.28	< 0.28
Tetrachloroethylene	5	**85.9**	**137**	**14.3**	< 0.22	< 0.22
Toluene	1000	**0.42 J/B/T**	**1.1 J/B/T**	**0.92 J/B/T**	**3.7 /B/T**	**1.2 /B/T**
Trichloroethylene	5	< 0.35	< 0.69	< 0.35	< 0.35	< 0.35

Sample ID		MW-35D	MW-36D	MW-37
Lab Sample ID	USEPA	FA90040-11	FA90040-15	FA89990-7
Date Collected	MCL	10/20/21	10/20/21	10/18/21
Volatile Organic Compounds by Method 8260D (µg/L)				
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 62
1,1-Dichloroethylene	7	< 0.32	< 0.32	**93.5 J//**
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 69
Tetrachloroethylene	5	< 0.22	< 0.22	**16200**
Toluene	1000	**1.2 /B/T**	**4.1 /B/T**	**98.7 J/B/T**
Trichloroethylene	5	< 0.35	< 0.35	< 86

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 for Detected Compounds in Surface Water Samples
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID **Lab Sample ID** **Date Collected**	USEPA MCL	SCDHEC WCS	SW-01-LC FA90040-17 10/20/21	SW-02-LC FA90040-19 10/20/21	SW-03-HMB FA90040-20 10/20/21	SW-04-TLC FA90040-18 10/20/21
Volatile Organic Compounds by Method 8260D (µg/L)						
Chloroform	80 [1]	470	< 0.3	< 0.3	**0.84 J//**	< 0.3
Methyl Chloride	—	—	< 0.5	< 0.5	**0.84 J//**	< 0.5
Tetrachloroethylene	5	3.3	**2.8**	< 0.22	< 0.22	< 0.22

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.
SCDEC 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
Summary of Analytical Results in IDW Sample
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID **Lab Sample ID** **Date Collected**	USEPA Toxicity Characteristic	AQUEOUS IDW FA90040-16 10/20/21	
Volatile Organic Compounds by 8260D (µg/L)			
1,1,1-Trichloroethane	—	< 1.2	
1,1,2,2-Tetrachloroethane	—	< 1.5	
1,1,2-Trichloroethane	—	< 2.3	
1,1-Dichloroethane	—	< 1.7	
1,1-Dichloroethylene	700	< 1.6	
1,2-Dichloroethane	500	< 1.6	
1,2-Dichloropropane	—	< 2.1	
2-Butanone (MEK)	200,000	< 10	
2-Hexanone	—	< 10	
4-Methyl-2-pentanone (MIBK)	—	< 5	
Acetone	—	< 50	
Benzene	500	< 1.6	
Bromodichloromethane	—	< 1.2	
Bromoform	—	< 2	
Carbon Disulfide	—	< 2.7	
Carbon Tetrachloride	500	< 1.8	
Chlorobenzene	100,000	< 1	
Chloroethane	—	< 3.3	
Chloroform	6,000	< 1.5	
cis-1,2-Dichloroethylene	—	**12.8**	
cis-1,3-Dichloropropene	—	< 1.5	
Dibromochloromethane	—	< 1.4	
Ethylbenzene	—	< 1.8	
Methyl Bromide	—	< 10	
Methyl Chloride	—	< 2.5	
Methylene Chloride	—	< 10	
Styrene	—	< 1.1	
Tetrachloroethylene	700	**553**	
Toluene	—	**2**	**J/B/T**
trans-1,2-Dichloroethylene	—	< 1.1	
trans-1,3-Dichloropropene	—	< 1.1	
Trichloroethylene	500	**5.5**	
Vinyl Chloride	200	< 2	
Xylene (total)	—	< 3.6	
Semivolatile Organic Compounds by 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)	—	< 0.73	
2,4,5-Trichlorophenol	400,000	< 0.71	
2,4,6-Trichlorophenol	2,000	< 0.72	
2,4-Dichlorophenol	—	< 0.8	
2,4-Dimethylphenol	—	< 0.71	
2,4-Dinitrophenol	—	< 4.8	
2,4-Dinitrotoluene	130	< 0.78	
2,6-Dinitrotoluene	—	< 0.69	
2-Chloronaphthalene	—	< 0.48	
2-Chlorophenol	—	< 0.61	
2-Methylnaphthalene	—	< 0.58	
2-Methylphenol	200,000	< 0.54	
2-Nitroaniline	—	< 1.7	
2-Nitrophenol	—	< 0.82	
3&4-Methylphenol	200,000	< 0.94	
3,3'-Dichlorobenzidine	—	< 0.62	
3-Nitroaniline	—	< 0.85	
4,6-Dinitro-o-cresol	—	< 1.9	
4-Bromophenyl Phenyl Ether	—	< 0.81	
4-Chloro-3-methyl Phenol	—	< 0.57	
4-Chloroaniline	—	< 0.61	
4-Chlorophenyl Phenyl Ether	—	< 0.52	

Table 6
Summary of Analytical Results in IDW Sample
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID	USEPA	AQUEOUS IDW		
Lab Sample ID	Toxicity	FA90040-16		
Date Collected	Characteristic	10/20/21		
Semivolatile Organic Compounds by 8270E (µg/L)				
4-Nitroaniline	—	<	1.1	
4-Nitrophenol	—	<	4.8	
Acenaphthene	—	<	0.6	
Acenaphthylene	—	<	0.61	
Anthracene	—	<	0.77	
Benzo(a)anthracene	—	<	0.73	
Benzo(a)pyrene	—	<	0.75	
Benzo(b)fluoranthene	—	<	0.75	
Benzo(g,h,i)perylene	—	<	0.79	
Benzo(k)fluoranthene	—	<	0.82	
Benzoic Acid	—	<	9.6	
Benzyl Alcohol	—	<	0.59	
bis(2-Chloroethoxy)methane	—	<	0.78	
bis(2-Chloroethyl)ether	—	<	0.7	
bis(2-Ethylhexyl)phthalate	—	<	0.96	
Butyl Benzyl Phthalate	—	<	0.96	
Carbazole	—	<	0.58	
Chrysene	—	<	0.82	
Di-n-butyl Phthalate	—	<	0.96	
Di-n-octyl Phthalate	—	<	0.96	
Dibenzo(a,h)anthracene	—	<	0.77	
Dibenzofuran	—	<	0.58	
Diethyl Phthalate	—	<	0.96	
Dimethyl Phthalate	—	<	0.96	
Fluoranthene	—	<	0.53	
Fluorene	—	<	0.67	
Hexachlorobenzene	130	<	0.67	
Hexachlorobutadiene	500	<	0.48	
Hexachlorocyclopentadiene	—	<	1.7	
Hexachloroethane	3,000	<	1.6	
Indeno(1,2,3-cd)pyrene	—	<	0.69	
Isophorone	—	<	0.75	
N-Nitrosodi-n-propylamine	—	<	0.64	
N-Nitrosodiphenylamine	—	<	0.78	
Naphthalene	—	<	0.48	
Nitrobenzene	2,000	<	0.9	
Pentachlorophenol	100,000	<	4.8	
Phenanthrene	—	<	0.83	
Phenol	—	<	0.48	
Pyrene	—	<	0.66	
Metals by 6010D (µg/L)				
Antimony	—		**1.9**	**J//**
Arsenic	5,000	<	1.3	
Beryllium	—	<	0.2	
Cadmium	1,000	<	0.2	
Chromium	5,000		**3**	**J//**
Copper	—	<	1	
Lead	5,000	<	1.1	
Nickel	—		**0.9**	**J//**
Selenium	1,000	<	2.9	
Silver	5,000	<	0.7	
Thallium	—	<	1.4	
Zinc	—		**18.1**	**J//**
Mercury by 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 Site
Bamberg, South Carolina

Field Duplicates

Sample ID	MW-14D		MW-14D-A		Relative	MW-22D		MW-22D-A		Relative
Lab Sample ID	FA89990-23		FA89990-24		Percent	FA89990-19		FA89990-20		Percent
Date Collected	10/19/21		10/19/21		Difference	10/19/21		10/19/21		Difference
Volatile Organic Compounds by 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	**0.93**	**J//**	**0.95**	**J//**	NC	**1.4**		**1.5**		6.9
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	< 0.28		< 0.28		NC
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	< 2		< 2		NC	< 2		**2**	**J//**	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	**47.4**		**45.7**		3.7	**89.9**		**90.7**		0.9
Toluene	**0.6**	**J/B/T**	**0.92**	**J/B/T**	NC	**0.49**	**J/B/T**	< 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		**0.63**	**J//**	NC	< 0.35		< 0.35		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 Site
Bamberg, South Carolina

Field Duplicates

Sample ID	MW-24	MW-24-A	Relative	MW-32DR	MW-32DR-A	Relative
Lab Sample ID	FA90040-3	FA90040-4	Percent	FA89990-16	FA89990-17	Percent
Date Collected	10/19/21	10/19/21	Difference	10/19/21	10/19/21	Difference
Volatile Organic Compounds by 8260D (µg/L)						
1,1,1-Trichloroethane	< 6.2	< 5	NC	< 0.25	< 0.25	NC
1,1,2,2-Tetrachloroethane	< 7.5	< 6	NC	< 0.3	< 0.3	NC
1,1,2-Trichloroethane	< 12	< 9.3	NC	< 0.47	< 0.47	NC
1,1-Dichloroethane	< 8.5	< 6.8	NC	< 0.34	< 0.34	NC
1,1-Dichloroethylene	< 8.1	< 6.4	NC	< 0.32	< 0.32	NC
1,2-Dichloroethane	< 7.8	< 6.2	NC	< 0.31	< 0.31	NC
1,2-Dichloropropane	< 11	< 8.5	NC	< 0.43	< 0.43	NC
2-Butanone (MEK)	< 50	< 40	NC	< 2	< 2	NC
2-Hexanone	< 50	< 40	NC	< 2	< 2	NC
4-Methyl-2-pentanone (MIBK	< 25	< 20	NC	< 1	< 1	NC
Acetone	< 250	< 200	NC	< 10	< 10	NC
Benzene	< 7.8	< 6.2	NC	< 0.31	< 0.31	NC
Bromodichloromethane	< 6.1	< 4.8	NC	< 0.24	< 0.24	NC
Bromoform	< 10	< 8.1	NC	< 0.41	< 0.41	NC
Carbon Disulfide	< 13	< 11	NC	< 0.53	< 0.53	NC
Carbon Tetrachloride	< 8.9	< 7.1	NC	< 0.36	< 0.36	NC
Chlorobenzene	< 5	< 4	NC	< 0.2	< 0.2	NC
Chloroethane	< 17	< 13	NC	< 0.67	< 0.67	NC
Chloroform	< 7.5	< 6	NC	< 0.3	< 0.3	NC
cis-1,2-Dichloroethylene	< 6.9	**11.7 J//**	NC	< 0.28	< 0.28	NC
cis-1,3-Dichloropropene	< 7.3	< 5.8	NC	< 0.29	< 0.29	NC
Dibromochloromethane	< 6.9	< 5.5	NC	< 0.28	< 0.28	NC
Ethylbenzene	< 8.9	< 7.1	NC	< 0.36	< 0.36	NC
Methyl Bromide	< 50	< 40	NC	< 2	< 2	NC
Methyl Chloride	< 13	< 10	NC	< 0.5	< 0.5	NC
Methylene Chloride	< 50	< 40	NC	< 2	< 2	NC
Styrene	< 5.6	< 4.4	NC	< 0.22	< 0.22	NC
Tetrachloroethylene	**1230**	**1390**	12.2	**14.3**	**13.6**	5.0
Toluene	< 7.5	< 6	NC	**0.92 J/B/T**	**1.2 /B/T**	NC
trans-1,2-Dichloroethylene	< 5.5	< 4.4	NC	< 0.22	< 0.22	NC
trans-1,3-Dichloropropene	< 5.4	< 4.3	NC	< 0.21	< 0.21	NC
Trichloroethylene	< 8.6	< 6.9	NC	< 0.35	< 0.35	NC
Vinyl Chloride	< 10	< 8.2	NC	< 0.41	< 0.41	NC
Xylene (total)	< 18	< 14	NC	< 0.72	< 0.72	NC

Notes:
-A - Indicates a field duplicate sample.
NC - Not Calculated
µg/L - micrograms per liter (parts per billion)
Bold font and shading indicate the concentration is detected.
See Table 8 for explanation of data qualifiers.

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

Trip Blanks

Sample ID	TRIP BLANK 1	TRIP BLANK 2	TRIP BLANK 3	TRIP BLANK 4
Lab Sample ID	FA89990-1	FA89990-2	FA90040-1	FA90040-2
Date Collected	10/18/21	10/18/21	10/19/21	10/19/21
Volatile Organic Compounds by 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	< 2	< 2	**2.6 J//**	< 2
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	**1.8**	**2.7**	**5.5**	**8.5**
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:
µg/L - micrograms per liter (parts per billion)
Bold font and shading indicates the analyte was detected.
See Table 8 for explanation of data qualifiers.

Table 8
Definitions of Data Qualifiers
Delavan Spray Technologies Site
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
J	Estimated concentration above the method detection limit and below the reporting limit.

Result Data Qualifiers

Qualifier	Description
B	The analyte was found in an associated blank as well as the sample.
M	A matrix effect was present.

Analysis Data Qualifiers

Qualifier	Description
D	Percent difference of matrix spike duplicate exceeded the established criteria.
m	Matrix spike recovery below the established criteria.
T	Detected in the associated trip blank.

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 (8260D), TCL SVOCs (8270E) and Priority Pollutant Metals (6010D/7470A)
[3] - rinseate blanks are not expected since all downhole sampling equipment is disposable.

Table 10
Proposed 2021 - 2022 Residential Well Sampling Schedule
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 2021 RESIDENTIAL SAMPLING ACTIVITIES AND RESULTS

AECOM
10 Patewood Drive
Bldg. 6, Suite 500
Greenville, South Carolina 29615
www.aecom.com

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
Todd McLeod, Delavan Spray Technologies
David Graham, Delavan Spray Technologies
AECOM Project File 60314964/60656814

RE: Fall 2021 Residential Sampling Activities and Results
Delavan Spray LLC
Bamberg, South Carolina
VCC 13-4762-RP

DATE: February 15, 2022

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) for Raytheon Technologies on behalf of Delavan Spray LLC.

Background

Following South Carolina Department of Health and Environmental Control (SCDHEC) review of the activities scoped in the *Limestone Aquifer Groundwater Assessment Work Plan* (AECOM, October 13, 2017), SCDHEC requested the sampling of select private wells along Lemon Creek and Orange Grove Roads (correspondence dated December 18, 2017). 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). At that time, eight of the residential wells with PCE detections were used for drinking water and one was 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 significantly 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 Lemon Creek Road [LCR] and 715 LCR). Additionally, the well at 13 Lauren Court (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 2021 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 6, 2021, 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. 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 20, 2021, AECOM collected groundwater samples from 9 residential wells with active GAC systems. (**Figure 1**). Private wells 343 LCR and 698 LCR were not sampled because the wells were turned off and not operational at the time of sampling (pump out of service at 343 LCR and power off at 698 LCR). All 9 well samples were collected pre- and post-treatment to evaluate the effectiveness of the GAC treatment systems. Due to an error at the analytical laboratory, the incorrect preservative was used for the samples, requiring them to be recollected. The pre- and post-treatments samples were recollected by AECOM on November 11, 2021, from the 9 active wells with GAC systems installed.

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 November 2021 to verify performance

Well Location	Rationale
410 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 to verify performance
448 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 to verify performance
546 LCR-A	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 to verify performance
546 LCR-B	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 to verify performance
684 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 to verify performance
689 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 to verify performance
715 LCR	Low-level PCE detection in April 2019; GAC installed in October 2019; sampled in November 2021 to verify performance
743 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in November 2021 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 524.2. Residential groundwater samples were analyzed by Pace Analytical, 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 2021 PCE groundwater concentrations from site monitoring wells is included as **Figure 2**.

Groundwater samples were collected from 9 residential wells during the Fall 2021 monitoring event (**Table 1 and Figure 2**). PCE was detected in pre-treatment groundwater samples from 4 residential wells (13 LCT, 689 LCR, 715 LCR, and 743 LCR). Consistent with the prior residential well sampling, all PCE detections were low concentrations; the highest detection in Fall 2021 was 0.45 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 November 2021.

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.*

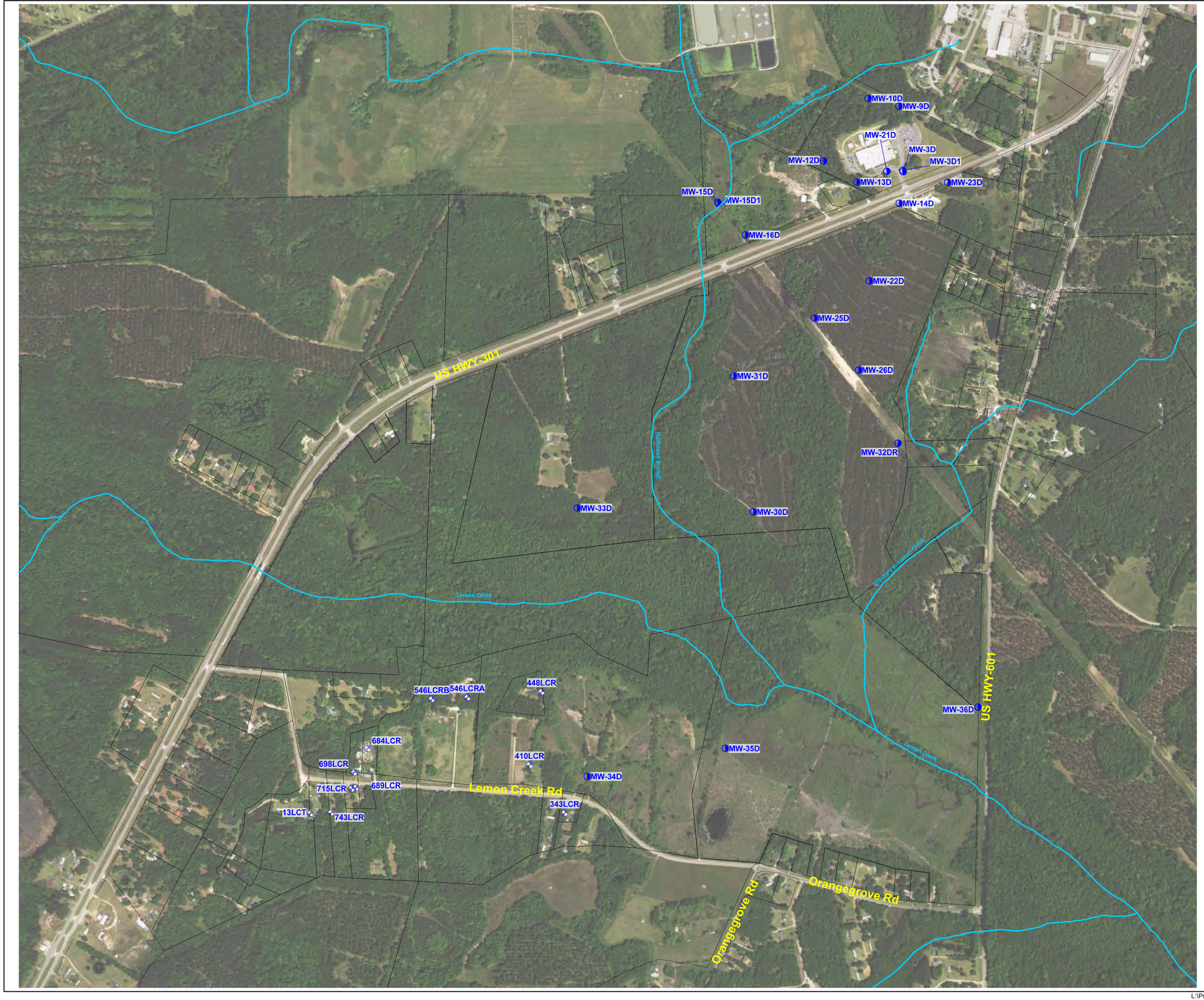
AECOM, 2019. *Technical Memorandum - GAC Filter Installation Activities and Residential Well Sampling, Results,* Delavan Spray LLC, Bamberg, South Carolina, VCC 13-4762-RP. January 15.

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*

AECOM, March 5, 2021. *Technical Memorandum – Fall 2020 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) Locations 343 LCR and 698 LCR were not sampled in October 2021 because there was no power to the pumps at these locations.
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.

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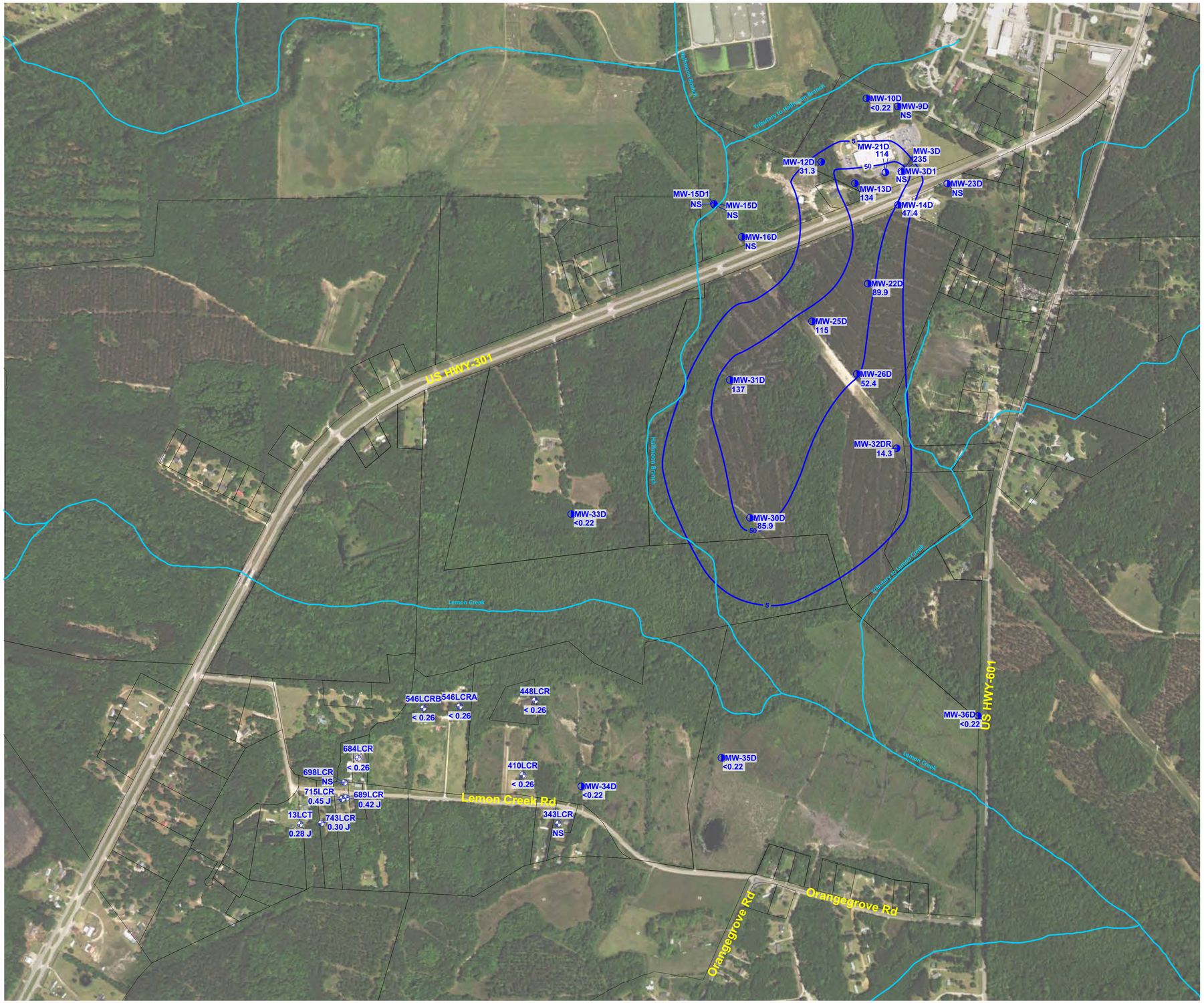
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-2300 F: (864) 234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

Project No.	Prepared by	Date	
60629985	L. Alexander	February 2022	Figure 1

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LEGEND

438BBR	Well Sample ID
	Residential Well Sample Location
	Deep Monitoring Well
	Property Boundary
	Surface Water
	PCE Isoconcentration Contour - October 2021 (µg/L)
< 0.26	PCE Concentration - October 2021 (µg/L)

Notes:
µg/L - micrograms per liter
PCE - Tetrachloroethene
Data Qualifiers:
J - The reported value is between the laboratory method detection limit and the practical quantitation limit.
1) Locations 343 LCR and 698 LCR were not sampled in October 2021 because there was no power to the pumps at these locations.
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.

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FEET

AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-2300 F: (864) 234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Concentrations in Residential Groundwater Samples – October 2021

Project No.	Prepared by	Date	
60629985	L. Alexander	February 2022	Figure 2

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Tables

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

Sample ID		13LCT-PRE	13LCT-POST	410LCR-PRE	410LCR-POST	448LCR-PRE	448LCR-POST
Lab Sample ID	MCL	35679094001	35679094002	35679094017	35679094018	35679094015	35679094016
Date Collected		11/11/21	11/11/21	11/11/21	11/11/21	11/11/21	11/11/21
Select Volatile Organic Compounds by Method 524.2 (µg/L)							
cis-1,2-Dichloroethene	70	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	**0.28 J//**	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Trichloroethene	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl chloride	2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12

Sample ID		546LCR-A-PRE	546LCR-A-POST	546LCR-B-PRE	546LCR-B-POST	684LCR-PRE	684LCR-POST
Lab Sample ID	MCL	35679094011	35679094012	35679094013	35679094014	35679094009	35679094010
Date Collected		11/11/21	11/11/21	11/11/21	11/11/21	11/11/21	11/11/21
Select Volatile Organic Compounds by Method 524.2 (µg/L)							
cis-1,2-Dichloroethene	70	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Trichloroethene	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl chloride	2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12

Sample ID		689LCR-PRE	689LCR-POST	715LCR-PRE	715LCR-POST	743LCR-PRE	743LCR-POST
Lab Sample ID	MCL	35679094007	35679094008	35679094005	35679094006	35679094003	35679094004
Date Collected		11/11/21	11/11/21	11/11/21	11/11/21	11/11/21	11/11/21
Select Volatile Organic Compounds by Method 524.2 (µg/L)							
cis-1,2-Dichloroethene	70	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	**0.42 J//**	< 0.26	**0.45 J//**	< 0.26	**0.30 J//**	< 0.26
Trichloroethene	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Vinyl chloride	2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12

Notes:
µg/L - micrograms per liter
Bold font and shading indicates the concentration is detected.
MCL - Maximum Contaminant Level (USEPA, March 2018).
Data Qualifiers:
J - The reported value is between the laboratory method detection limit and the practical quantitation limit.

Table 2
Summary of QA/QC Results in Residential Wells
Delavan Spray Technologies
Bamberg, South Carolina

Sample ID	TRIP BLANK	
Lab Sample ID	35679094019	
Date Collected	11/11/21	
Select Volatile Organic Compounds by Method 524.2 (µg/L)		
cis-1,2-Dichloroethene	<	0.33
Tetrachloroethene	<	0.26
Trichloroethene	<	0.26
Vinyl chloride	<	0.12

Notes:
µg/L - micrograms per liter

Attachment 1

Field Documentation

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number:
Calibrated By: Randy Mongue
Signature: Randy Mongue

YSI 556 SN: Pro Plus 5491
Turbidity Meter Model/SN: 20150345 1
Additional Equipment SN:
Date: 11-11-2021

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	765.1		0900	mmHg
Temperature (Saturated Air)	19.8	19.3	0900	C
Temperature (Calibration Solution)	20.1	20.2	0920	C
DO	9.04	9.27	0900	mg/L
pH 7	7.08	7.02	0908	SU
pH 4	4.01	4.00	0912	SU
pH 10	10.04	10.05	0916	SU
Specific Conductance	1.40	1.28	0904	mS/cm
ORP	239.1	237.5	0920	mV

MicroTPW Calibration

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

YSI 556 MPS / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp, LAB, C :	20.8	Temp, FIELD, C :	

Conductivity 1413 UMHO/CM @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	7810246	9/20	1.41		(+/- 5%)

PH 4.00 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	7809359	10/20	3.99		(+/- 0.2 units)

PH 7.01 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	7809236	9/20	7.08		(+/- 0.2 units)

PH 10.01 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	7809248	9/20	10.02		(+/- 0.2 units)

ORP ZOBELLS 231.0 MV @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	7811585	2/19	237.5		(+/- 20 MV)

Dissolved Oxygen (Saturated Air)		Temp, C	% Saturation	mg/L	Acceptable Range
	Post-Cal, LAB	22.6	97.8	8.46	
	Post-Cal, FIELD				(+/- 2%) / (+/- 2%)

New DO Membrane: ○ Yes ◉ No

Do Cap Color: ○ Black ○ Blue ◉ Yellow

Model: YSI - PRO PLUS S/N: 5491 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	2001146	JA-22	0.02		(.0196 to .0204)
10 NTU	91102	NOV-21	9.84		(9.8 to 10.2)
1000 NTU	200144	JAN-22	954.2		(970 to 1031)

Model: Micro TPW S/N: 20150345J

Calibrated By: Eric Olson Date of Calibration: 11-10-21

Project Name: UTC Project number: 60656814

Signed :

REV-6, 10/31/2018 EKO

AECOM

DAILY REPORT

PROJECT NUMBER 60656814.2a DATE 11-11-2021 REPORT NUMBER 1 of 2

PROJECT & LOCATION UTC Delavan

CLIENT: _____ AECOM FIELD REPRESENTATIVE Randy Monger

SUBCONTRACTOR _____

SUBCONTRACTOR PERSONNEL ON SITE _____

BRIEF SUMMARY OF WORK PERFORMED Re-sample Residential wells

START TIME	STOP TIME	DESCRIPTION OF ACTIVTIES: REMARKS
0600		leave AECOM for Pace Labs to pick up bottleware
0730		arrive at Pace - bottles are preserved w/ HCL
		not sure if this is correct notify Pari, Leslee to be sure
		before leaving for UTC Delavan to ~~Sam~~ re-sample Residential
		wells,
0750		confirmed this is correct, leave for UTC Delavan
0850		In Bamberg to purchase ice for sample cooler
0900	0920	Calibrate YSI Pro Plus S/N 5491
		prepare to re-sample Residential wells
0950		collect samples Pre + Post at 13LCT - Pre
1000		13LCT Post
1010		743LCR - Pre
1015		743 LCR - Post
1025		715 LCR - Pre
1030		715 LCR - Post
1035		689 LCR - Pre
1040		689 LCR - Post
1050		684 LCR - Pre
1055		684 LCR - Post
1110		546 LCR-A-Pre
1115		546 LCR-A- Post
1125		546 LCR-B - Pre
1130		546 LCR-B- Post

FIELD REPRESENTATIVES SIGNATURE Randy Monger DATE 11-11-2021

UTC Delavan
Residential Well Sampling

AECOM

DAILY REPORT

PROJECT NUMBER: 60656814.2a DATE: 11-11-2021 REPORT NUMBER: 2 of 2

Re-Sample Residential Wells Page #:

START TIME	STOP TIME	DESCRIPTION OF ACTIVTIES: REMARKS
1140		collect sample at 448 LCR Pre
1145		collect sample at 448 LCR-Post
1155		collect sample at 410 LCR-Pre
1200		collect sample at 410 LCR-Post
1210		at 343 LCR - No one will answer door, checked well No water pump has been out of service - may not be fixed yet.
1220		complete sampling leave for Pace Lab to relinquish samples
1320		purchase additional ice
1320	1502	relinquish samples to Pace Labs
	1600	retyc to Greenville to return equipment.
	1645	end of day & event.

FIELD REPRESENTATIVES SIGNATURE: _____ DATE: _____

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11 - 11 - 2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Morgan

SAMPLE LOCATION:	PRE	POST
Temperature (C)	14.9	12.9
D.O. (mg/l)	3.64	1.97
Conductivity (mS/cm)	0.227	0.218
Ph (s.u.)	7.62	7.65
ORP (Mv)	213.3	211.0
Turbidity (NTU)	1.38	0.04
Sample Time	0950	1000

Sample Identification: 13-LCT

Map Reference Number:

Sampling Address: 13 Lauren Court

Property Owners Name: Allen and Mary Hooker

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: **Pre=Raw Water** Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~Na2S2O3~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Morgan

SAMPLE LOCATION:	PRE	POST
Temperature (C)	17.1	14.1
D.O. (mg/l)	3.99	0.93
Conductivity (mS/cm)	0.222	0.223
Ph (s.u.)	7.62	7.64
ORP (Mv)	189.4	189.9
Turbidity (NTU)	0.30	0.00
Sample Time	1010	1015

Sample Identification: 743-LCR

Map Reference Number:

Sampling Address: 743 Lemon Creek Road

Property Owners Name: Raymond Taylor

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: Pre=Raw Water
Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~$Na_2S_2O_3$~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11- 11- 2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Morgan

SAMPLE LOCATION:	PRE	POST
Temperature (C)	18.~~7025~~	15.2
D.O. (mg/l)	3.60	0.47
Conductivity (mS/cm)	0.228	0.228
Ph (s.u.)	7.66	7.62
ORP (Mv)	192.0	185.9
Turbidity (NTU)	3.00	0.50
Sample Time	1025	1030

Sample Identification: 715 -LCR

Map Reference Number:

Sampling Address:715 Lemon Creek Road

Property Owners Name: April Campbell

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: **Pre=Raw Water** Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~Na2S2O3~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Morgan

SAMPLE LOCATION:	PRE	POST
Temperature (C)	18.6	17.7
D.O. (mg/l)	3.63	0.69
Conductivity (mS/cm)	0.228	0.229
Ph (s.u.)	7.67	7.65
ORP (Mv)	178.4	181.1
Turbidity (NTU)	0.90	0.00
Sample Time	1035	1040

Sample Identification: 689-LCR

Map Reference Number:

Sampling Address:689 Lemon Creek Road

Property Owners Name: Martha Clayton Banfield

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: **Pre=Raw Water** Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~Na2S2O3~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Morgan

SAMPLE LOCATION:	PRE	POST
Temperature (C)	20.6	18.4
D.O. (mg/l)	4.02	1.20
Conductivity (mS/cm)	0.221	0.231
Ph (s.u.)	7.68	7.63
ORP (Mv)	173.5	171.6
Turbidity (NTU)	0.00	0.22
Sample Time	1050	1055

Sample Identification: 684-LCR

Map Reference Number:

Sampling Address:684 Lemon Creek Road

Property Owners Name: Ernie Carroll

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: **Pre=Raw Water** Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~Na2S2O3~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Morgan

SAMPLE LOCATION:	PRE	POST
Temperature (C)	18.0	18.2
D.O. (mg/l)	0.55	1.56
Conductivity (mS/cm)	0.216	0.215
Ph (s.u.)	7.43	7.35
ORP (Mv)	181.1	190.6
Turbidity (NTU)	0.00	0.21
Sample Time	1110	1115

Sample Identification: 546-LCR-~~0~~A

Map Reference Number:

Sampling Address: 546 Lemon Creek Road

Property Owners Name: Donald Kirby

Property Owners Address (if different from sampling site):

Well Location Description: left of the house in portable bldg..

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: **Pre=Raw Water** Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~NaHSO3~~ HCl

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Mogle

SAMPLE LOCATION:	PRE	POST
Temperature (C)	20.0	20.0
D.O. (mg/l)	4.08	1.27
Conductivity (mS/cm)	0.214	0.214
Ph (s.u.)	7.37	7.29
ORP (Mv)	204.7	205.1
Turbidity (NTU)	0.81	0.42
Sample Time	1125	1130

Sample Identification: 546-LCR-B

Map Reference Number:

Sampling Address: 546 Lemon Creek Road

Property Owners Name: Donald Kirby

Property Owners Address (if different from sampling site):

Well Location Description: in storage bldg. near house

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point: Pre=Raw Water
Post=Filtered Water

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~Na2S2O3~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Moyer

SAMPLE LOCATION:	PRE	POST
Temperature (C)	18.9	16.6
D.O. (mg/l)	2.93	0.78
Conductivity (mS/cm)	0.231	0.232
Ph (s.u.)	7.53	7.57
ORP (Mv)	199.7	203.3
Turbidity (NTU)	1.23	0.23
Sample Time	1140	1145

Sample Identification: 448 LCR

Map Reference Number:

Sampling Address: 448 Lemon Creek Road

Property Owners Name: Michele Sanders

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point:

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~$Na_2S_2O_3$~~ HCl

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** 11-11-2021

Project Number: 60656814.2a **Sampling Personnel:** Randy Monyo

SAMPLE LOCATION:	PRE	POST
Temperature (C)	20.0	15.4
D.O. (mg/l)	2.77	0.88
Conductivity (mS/cm)	0.238	0.236
Ph (s.u.)	7.63	7.71
ORP (Mv)	201.1	201.9
Turbidity (NTU)	0.27	0.08
Sample Time	1155	1200

Sample Identification: 410 2CR

Map Reference Number:

Sampling Address: 410 Lemon Creek Road

Property Owners Name: David & Jess Cooler

Property Owners Address (if different from sampling site):

Well Location Description:

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

Well Construction Specifications (attach well log if available):

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

Location/Description of Sampling Point:

Evacuation Method:

Purge Time:

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	~~Na2S2O3~~ HCL

Remarks:

AECOM

RESIDENTIAL WATER WELL SAMPLING LOG

Project Name: UTAS Delavan Spray Technologies **Date:** _____

Project Number: 60656814.2a **Sampling Personnel:** _____

SAMPLE LOCATION:	PRE	POST
Temperature (C)		
D.O. (mg/l)		
Conductivity (mS/cm)		
Ph (s.u.)		
ORP (Mv)		
Turbidity (NTU)		
Sample Time		

Sample Identification: 343 LCR

Map Reference Number: _____

Sampling Address: 343 Lemon Creek Road

Property Owners Name: Robert Jamison

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

Well Location Description: _____

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

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

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

Location/Description of Sampling Point: _____

Evacuation Method: _____

Purge Time: _____

Analytical Test Method	Container Description	Preservative
VOCs by EPA Method 524.2	3 x 40 ml glass vials	Na2S203

Remarks: _____

AECOM

Chain of Custody and Analytical Request

Page: 1 of 2
Project Number: 60656814.2a
Chain of Custody Number [1]:
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan

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
13LCT-Pre	11-Nov-2021	0950		X		Drinking water	X	X	X	X	*by USEPA drinking water	
13LCT-Post		1000		X			X	X	X	X	by method 524.2	
743LCR-Pre		1010		X			X	X	X	X		
743LCR-Post		1015		X			X	X	X	X		
715LCR-Pre		1025		X			X	X	X	X		
715LCR-Post		1030		X			X	X	X	X		
689LCR-Pre		1035		X			X	X	X	X		
689LCR-Post		1040		X			X	X	X	X		
684LCR-Pre		1050		X			X	X	X	X		
684LCR-Post		1055		X			X	X	X	X		
546LCR-A-Pre		1110		X			X	X	X	X		
546LCR-A-Post		1115		X			X	X	X	X		
546LCR-B-Pre		1125		X			X	X	X	X		
546LCR-B-Post		1130		X			X	X	X	X		
448LCR-Pre		1140		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	11-11-21	1502			
2.						
3.				Greg Masterson	11/11/21	1802

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: XXXX
Method of Shipment:
Analytical Lab: Pace/Shealy Envirnmen
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)

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.2a
Chain of Custody Number [1]:
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan

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
448 LCR-Post	11-Nov-2021	1145		X		Drinking water	X	X	X	X	*by USEPA drinking water	
410 LCR-Pre	↓	1155		X		↓	X	X	X	X	by method 524.2	
410 LCR-Post		1200		X			X	X	X	X		
Trip Blank				X		↓	X	X	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	11-11-21	1502			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

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

Attachment 2

Laboratory Analytical Report

Report of Analysis

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

Lot Number:**WK11049**

Date Completed:12/01/2021
Revision Date: 12/22/2021

12/22/2021 2:04 PM
Approved and released by:
Project Manager II: **Kathy E. Smith**

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: WK11049

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.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

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

Report was revised December 22, 2021 to edit the sample IDs. The sample IDs for WK11049-009 and WK11049-010 were changed per client request.

Samples were analyzed at Pace in Ormand Beach, FL

Sample Summary
AECOM
Lot Number: WK11049

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	13LCT-Pre	Aqueous	11/11/2021 0950	11/11/2021
002	13LCT-Post	Aqueous	11/11/2021 1000	11/11/2021
003	743LCR-Pre	Aqueous	11/11/2021 1010	11/11/2021
004	743LCR-Post	Aqueous	11/11/2021 1015	11/11/2021
005	715LCR-Pre	Aqueous	11/11/2021 1025	11/11/2021
006	715LCR-Post	Aqueous	11/11/2021 1030	11/11/2021
007	689LCR-Pre	Aqueous	11/11/2021 1035	11/11/2021
008	689LCR-Post	Aqueous	11/11/2021 1040	11/11/2021
009	684LCR-Pre	Aqueous	11/11/2021 1050	11/11/2021
010	684LCR-Post	Aqueous	11/11/2021 1055	11/11/2021
011	546LCR-A-Pre	Aqueous	11/11/2021 1110	11/11/2021
012	546LCR-A-Post	Aqueous	11/11/2021 1115	11/11/2021
013	546LCR-B-Pre	Aqueous	11/11/2021 1125	11/11/2021
014	546LCR-B-Post	Aqueous	11/11/2021 1130	11/11/2021
015	448LCR-Pre	Aqueous	11/11/2021 1140	11/11/2021
016	448LCR-Post	Aqueous	11/11/2021 1145	11/11/2021
017	410LCR-Pre	Aqueous	11/11/2021 1155	11/11/2021
018	410LCR-Post	Aqueous	11/11/2021 1200	11/11/2021
019	Trip Blank	Aqueous	11/11/2021	11/11/2021

(19 samples)

Chain of Custody
and
Miscellaneous Documents

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.2a
Chain of Custody Number (if):
LIMS Number:

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

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	See Comments: COMP	GRAB	Well	Sample Information	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride	COMMENTS	Cooler ID
13LCT-Pre	11-Nov-2021	0950		X		Drinking water	X	X	X	X	*by USEPA drinking water by method 524.2	
13LCT-Post		1000		X			X	X	X	X		
743LCR-Pre		1010		X			X	X	X	X		
743LCR-Post		1015		X			X	X	X	X		
715LCR-Pre		1025		X			X	X	X	X		
715LCR-Post		1030		X			X	X	X	X		
689LCR-Pre		1035		X			X	X	X	X		
689LCR-Post		1040		X			X	X	X	X		
689LCR-Pre		1050		X			X	X	X	X		
689LCR-Post		1055		X			X	X	X	X		
546LCR-A-Pre		1110		X			X	X	X	X		
546LCR-A-Post		1115		X			X	X	X	X		
546LCR-B-Pre		1125		X			X	X	X	X		
546LCR-B-Post		1130		X			X	X	X	X		
448LCR-Pre		1140		X			X	X	X	X		

WK11049

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
	11-11-21	1502	1.		
			2.		
			3. Greg Hinton	11/11/21	1502

T=3.2°C

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Labe	XXXX	Shipper:	
Method of Shipment:		Airbill #:	
Analytical Lab:	Pace/Shealy Environmen	Location:	West Columbia, sc
Lab Recipient:		Date:	Time:

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

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AECOM

Chain of Custody and Analytical Request

Page: 2 of 2
Project Number: 60656814.2a
Chain of Custody Number [1]:
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan

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
448 LCR-Post	11-Nov-2021	1145		X		Drinking water	X	X	X	X	*by USEPA drinking water	
410 LCR-Pre	↓	1155		X		↓	X	X	X	X	by method 524.2	
410 LCR-Post		1200		X			X	X	X	X		
Trip Blank				X			X	X	X	X		

WK11049

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Randy Morgan	11-11-21	1502	1.		
			2.		
			3. Amy Hamilton	11/11/21	1502

Sample Delivery Details / Laboratory Receipt

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

T 3.2°C

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

52745 admin\project control\project forms Blank COC

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

PACE ANALYTICAL SERVICES, LLC

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 29, 2021

Kathy E. Smith
Pace Analytical, LLC_Columbia (Fmr Shealy)
106 Vantage Point Drive
Columbia, SC 29223

RE: Project: WK11049
Pace Project No.: 35679094

Dear Kathy Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Rebecca Selph

Rebecca Selph
rebecca.selph@pacelabs.com
(386)672-5668
Project Manager

Enclosures

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: WK11049
Pace Project No.: 35679094

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: WK11049
Pace Project No.: 35679094

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35679094001	13LCT-PRE	EPA 524.2	JLR	7	PASI-O
35679094002	13LCT-POST	EPA 524.2	JLR	7	PASI-O
35679094003	743LCR-PRE	EPA 524.2	JLR	7	PASI-O
35679094004	743LCR-POST	EPA 524.2	JLR	7	PASI-O
35679094005	715LCR-PRE	EPA 524.2	JLR	7	PASI-O
35679094006	715LCR-POST	EPA 524.2	JLR	7	PASI-O
35679094007	689LCR-PRE	EPA 524.2	JLR	7	PASI-O
35679094008	689LCR-POST	EPA 524.2	JLR	7	PASI-O
35679094009	684LCR-PRE	EPA 524.2	JLR	7	PASI-O
35679094010	684LCR-POST	EPA 524.2	JLR	7	PASI-O
35679094011	546LCR-A-PRE	EPA 524.2	JLR	7	PASI-O
35679094012	546LCR-A-POST	EPA 524.2	JLR	7	PASI-O
35679094013	546LCR-B-PRE	EPA 524.2	JLR	7	PASI-O
35679094014	546LCR-B-POST	EPA 524.2	JLR	7	PASI-O
35679094015	448LCR-PRE	EPA 524.2	JLR	7	PASI-O
35679094016	448LCR-POST	EPA 524.2	JLR	7	PASI-O
35679094017	410LCR-PRE	EPA 524.2	JLR	7	PASI-O
35679094018	410LCR-POST	EPA 524.2	JLR	7	PASI-O
35679094019	TRIP BLANK	EPA 524.2	JLR	7	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SUMMARY OF DETECTION

Project: WK11049
Pace Project No.: 35679094

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35679094001	**13LCT-PRE**					
EPA 524.2	Tetrachloroethene	0.28 I	ug/L	0.50	11/23/21 02:43	
35679094003	**743LCR-PRE**					
EPA 524.2	Tetrachloroethene	0.30 I	ug/L	0.50	11/23/21 03:32	
35679094005	**715LCR-PRE**					
EPA 524.2	Tetrachloroethene	0.45 I	ug/L	0.50	11/23/21 04:20	
35679094007	**689LCR-PRE**					
EPA 524.2	Tetrachloroethene	0.42 I	ug/L	0.50	11/23/21 05:08	

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 13LCT-PRE **Lab ID: 35679094001** Collected: 11/11/21 09:50 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 02:43	156-59-2	
Tetrachloroethene	**0.28 I**	ug/L	0.50	1		11/23/21 02:43	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 02:43	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 02:43	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 02:43	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 02:43	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		11/23/21 02:43	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 13LCT-POST **Lab ID: 35679094002** Collected: 11/11/21 10:00 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 03:08	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 03:08	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 03:08	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 03:08	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/23/21 03:08	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 03:08	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		11/23/21 03:08	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 743LCR-PRE **Lab ID: 35679094003** Collected: 11/11/21 10:10 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 03:32	156-59-2	
Tetrachloroethene	**0.30 I**	ug/L	0.50	1		11/23/21 03:32	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 03:32	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 03:32	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		11/23/21 03:32	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 03:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		11/23/21 03:32	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 743LCR-POST **Lab ID: 35679094004** Collected: 11/11/21 10:15 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 03:56	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 03:56	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 03:56	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 03:56	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 03:56	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 03:56	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130	1		11/23/21 03:56	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 715LCR-PRE **Lab ID: 35679094005** Collected: 11/11/21 10:25 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 04:20	156-59-2	
Tetrachloroethene	**0.45 I**	ug/L	0.50	1		11/23/21 04:20	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 04:20	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 04:20	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		11/23/21 04:20	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 04:20	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 04:20	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 715LCR-POST **Lab ID: 35679094006** Collected: 11/11/21 10:30 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 04:44	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 04:44	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 04:44	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 04:44	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 04:44	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 04:44	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 04:44	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 689LCR-PRE **Lab ID: 35679094007** Collected: 11/11/21 10:35 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 05:08	156-59-2	
Tetrachloroethene	**0.42 I**	ug/L	0.50	1		11/23/21 05:08	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 05:08	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 05:08	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		11/23/21 05:08	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 05:08	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 05:08	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 689LCR-POST **Lab ID: 35679094008** Collected: 11/11/21 10:40 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 05:32	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 05:32	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 05:32	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 05:32	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		11/23/21 05:32	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 05:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130	1		11/23/21 05:32	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 684LCR-PRE **Lab ID: 35679094009** Collected: 11/11/21 10:50 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 05:56	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 05:56	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 05:56	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 05:56	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 05:56	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		11/23/21 05:56	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130	1		11/23/21 05:56	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 684LCR-POST **Lab ID: 35679094010** Collected: 11/11/21 10:55 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 06:21	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 06:21	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 06:21	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 06:21	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		11/23/21 06:21	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 06:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 06:21	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 546LCR-A-PRE **Lab ID: 35679094011** Collected: 11/11/21 11:10 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 06:45	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 06:45	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 06:45	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 06:45	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		11/23/21 06:45	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 06:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130	1		11/23/21 06:45	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 546LCR-A-POST **Lab ID: 35679094012** Collected: 11/11/21 11:15 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 07:09	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 07:09	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 07:09	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 07:09	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 07:09	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 07:09	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 07:09	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 546LCR-B-PRE **Lab ID: 35679094013** Collected: 11/11/21 11:25 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 07:33	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 07:33	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 07:33	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 07:33	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		11/23/21 07:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 07:33	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		11/23/21 07:33	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 546LCR-B-POST **Lab ID: 35679094014** Collected: 11/11/21 11:30 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 07:57	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 07:57	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 07:57	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 07:57	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 07:57	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		11/23/21 07:57	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 07:57	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 448LCR-PRE **Lab ID: 35679094015** Collected: 11/11/21 11:40 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 08:21	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 08:21	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 08:21	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 08:21	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 08:21	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 08:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130	1		11/23/21 08:21	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 448LCR-POST **Lab ID: 35679094016** Collected: 11/11/21 11:45 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 08:45	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 08:45	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 08:45	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 08:45	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		11/23/21 08:45	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 08:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		11/23/21 08:45	2199-69-1	

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ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 410LCR-PRE **Lab ID: 35679094017** Collected: 11/11/21 11:55 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 09:09	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 09:09	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 09:09	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 09:09	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		11/23/21 09:09	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/23/21 09:09	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 09:09	2199-69-1	

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: 410LCR-POST **Lab ID: 35679094018** Collected: 11/11/21 12:00 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 09:33	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 09:33	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 09:33	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 09:33	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/23/21 09:33	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 09:33	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 09:33	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: WK11049
Pace Project No.: 35679094

Sample: TRIP BLANK **Lab ID: 35679094019** Collected: 11/11/21 00:01 Received: 11/17/21 11:19 Matrix: Drinking Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		11/23/21 09:57	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 09:57	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		11/23/21 09:57	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		11/23/21 09:57	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		11/23/21 09:57	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		11/23/21 09:57	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		11/23/21 09:57	2199-69-1	

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: WK11049
Pace Project No.: 35679094

QC Batch: 779876 — Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 — Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35679094001, 35679094002, 35679094003, 35679094004, 35679094005, 35679094006, 35679094007, 35679094008, 35679094009, 35679094010, 35679094011, 35679094012, 35679094013, 35679094014, 35679094015, 35679094016, 35679094017, 35679094018, 35679094019

METHOD BLANK: 4275044 — Matrix: Water
Associated Lab Samples: 35679094001, 35679094002, 35679094003, 35679094004, 35679094005, 35679094006, 35679094007, 35679094008, 35679094009, 35679094010, 35679094011, 35679094012, 35679094013, 35679094014, 35679094015, 35679094016, 35679094017, 35679094018, 35679094019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.33 U	0.50	11/23/21 02:19	
Tetrachloroethene	ug/L	0.26 U	0.50	11/23/21 02:19	
Trichloroethene	ug/L	0.26 U	0.50	11/23/21 02:19	
Vinyl chloride	ug/L	0.12 U	0.50	11/23/21 02:19	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	11/23/21 02:19	
4-Bromofluorobenzene (S)	%	92	70-130	11/23/21 02:19	
Toluene-d8 (S)	%	100	70-130	11/23/21 02:19	

LABORATORY CONTROL SAMPLE & LCSD: 4275045 4275046

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	40	37.0	36.3	92	91	70-130	2	20	
Tetrachloroethene	ug/L	40	34.9	33.0	87	82	70-130	6	20	
Trichloroethene	ug/L	40	36.4	35.1	91	88	70-130	4	20	
Vinyl chloride	ug/L	40	36.2	37.7	91	94	70-130	4	20	
1,2-Dichlorobenzene-d4 (S)	%				103	101	70-130			
4-Bromofluorobenzene (S)	%				99	99	70-130			
Toluene-d8 (S)	%				102	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: WK11049
Pace Project No.: 35679094

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.

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Ormond Beach, FL 32174
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WK11049
Pace Project No.: 35679094

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35679094001	**13LCT-PRE**	EPA 524.2	779876		
35679094002	**13LCT-POST**	EPA 524.2	779876		
35679094003	**743LCR-PRE**	EPA 524.2	779876		
35679094004	**743LCR-POST**	EPA 524.2	779876		
35679094005	**715LCR-PRE**	EPA 524.2	779876		
35679094006	**715LCR-POST**	EPA 524.2	779876		
35679094007	**689LCR-PRE**	EPA 524.2	779876		
35679094008	**689LCR-POST**	EPA 524.2	779876		
35679094009	**684LCR-PRE**	EPA 524.2	779876		
35679094010	**684LCR-POST**	EPA 524.2	779876		
35679094011	**546LCR-A-PRE**	EPA 524.2	779876		
35679094012	**546LCR-A-POST**	EPA 524.2	779876		
35679094013	**546LCR-B-PRE**	EPA 524.2	779876		
35679094014	**546LCR-B-POST**	EPA 524.2	779876		
35679094015	**448LCR-PRE**	EPA 524.2	779876		
35679094016	**448LCR-POST**	EPA 524.2	779876		
35679094017	**410LCR-PRE**	EPA 524.2	779876		
35679094018	**410LCR-POST**	EPA 524.2	779876		
35679094019	**TRIP BLANK**	EPA 524.2	779876		

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WO# : 35679094

35679094

Chain of Custody

Workorder: WK11049 Workorder Name: Bamberg Owner Received Date: 11/16/2021 Results Requested By: 11/29/2021

Report To:	Subcontract To:
Kathy E. Smith	Project #
Pace Analytical	
106 Vantage Point Drive	Pace Ormand Beach
Columbia SC, 29223	
803-227-2704	
Kathy.Smith@pacelabs.com	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCL					Requested Analysis: 524 - PCE	524 - TCE	524 - cis-1,2-DCE	524 - Vinyl Chloride									LAB USE ONLY
1	13LCT-Pre	grab	11/11/2021 @ 0950	WK11049-001	Aqueous	x					x	x	x	x									
2	13LCT-Post	grab	11/11/2021 @ 1000	WK11049-002	Aqueous	x					x	x	x	x									
3	743LCR-Pre	grab	11/11/2021 @ 1010	WK11049-003	Aqueous	x					x	x	x	x									
4	743LCR-Post	grab	11/11/2021 @ 1015	WK11049-004	Aqueous	x					x	x	x	x									
5	715LCR-Pre	grab	11/11/2021 @ 1025	WK11049-005	Aqueous	x					x	x	x	x									
6	715LCR-Post	grab	11/11/2021 @ 1030	WK11049-006	Aqueous	x					x	x	x	x									
7	689LCR-Pre	grab	11/11/2021 @ 1035	WK11049-007	Aqueous	x					x	x	x	x									
8	689LCR-Post	grab	11/11/2021 @ 1040	WK11049-008	Aqueous	x					x	x	x	x									
9	689LCR-Pre	grab	11/11/2021 @ 1050	WK11049-009	Aqueous	x					x	x	x	x									
10	689LCR-Post	grab	11/11/2021 @ 1055	WK11049-010	Aqueous	x					x	x	x	x									

Transfers	Released By	Date/Time	Reveived By	Date/Time	Comments
1			Pace	11/17/21	1119
2					
3					T392

Cooler Temperature on Receipt 2.5 °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: WK11049 Workorder Name: Bamberg Owner Received Date: 11/16/2021 Results Requested By: 11/29/2021

Report To:	Subcontract To:
Kathy E. Smith	Project #
Pace Analytical	
106 Vantage Point Drive	Pace Ormand Beach
Columbia SC, 29223	
803-227-2704	
Kathy.Smith@pacelabs.com	

						Preserved Containers					Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL					524 - PCE	524 - TCE	524 - cis-1,2-DCE	524 - Vinyl Chloride									LAB USE ONLY
1	546LCR-Pre	grab	11/11/2021 @ 1110	WK11049-011	Aqueous	x					x	x	x	x									
2	546LCR-Post	grab	11/11/2021 @ 1115	WK11049-012	Aqueous	x					x	x	x	x									
3	546LCR-Pre	grab	11/11/2021 @ 1125	WK11049-013	Aqueous	x					x	x	x	x									
4	546LCR-Post	grab	11/11/2021 @ 1130	WK11049-014	Aqueous	x					x	x	x	x									
5	448LCR-Pre	grab	11/11/2021 @ 1140	WK11049-015	Aqueous	x					x	x	x	x									
6	448LCR-Post	grab	11/11/2021 @ 1145	WK11049-016	Aqueous	x					x	x	x	x									
7	410LCR-Pre	grab	11/11/2021 @ 1155	WK11049-017	Aqueous	x					x	x	x	x									
8	410LCR-Post	grab	11/11/2021 @ 1200	WK11049-018	Aqueous	x					x	x	x	x									
9	Trip Blank	grab	11/11/2021 @ 0000	WK11049-019	Aqueous	x					x	x	x	x									
10																							

Transfers	Released By	Date/Time	Reveived By	Date/Time	Comments
1					
2					
3					

Cooler Temperature on Receipt _____ °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC
This chain of custody is considered complete as is since this information is available in the owner laboratory.

AECOM

Chain of Custody and Analytical Request

Page: 1 of 2
Project Number: 60656814.2a
Chain of Custody Number [1]:
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan

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	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride	COMMENTS	Cooler ID
13LCT-Pre	11-Nov-2021	0950		X		Drinking water	X	X	X	X	*by USEPA drinking water	
13LCT-Post	"	1000		X		"	X	X	X	X	by method 524.2	
743LCR-Pre	"	1010		X		"	X	X	X	X		
743LCR-Post	"	1015		X		"	X	X	X	X		
715LCR-Pre	"	1025		X		"	X	X	X	X		
715LCR-Post	"	1030		X		"	X	X	X	X		
689LCR-Pre	"	1035		X		"	X	X	X	X		
689LCR-Post	"	1040		X		"	X	X	X	X		
689LCR-Pre	"	1050		X		"	X	X	X	X		
689LCR-Post	"	1055		X		"	X	X	X	X		
546LCR-A-Pre	"	1110		X		"	X	X	X	X		
546LCR-A-Post	"	1115		X		"	X	X	X	X		
546LCR-B-Pre	"	1125		X		"	X	X	X	X		
546LCR-B-Post	"	1130		X		"	X	X	X	X		
448LCR-Pre	"	1140		X		"	X	X	X	X		

WK11049
KES2

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	11-11-21	1502	PACE CLT Greene	11.12.21	1555
2.		11/11/21	1550	PACE	11/12	1415
3.	PACE CLT Greene	11.12.21		Greg Kimbrough	11/11/21	1802

Sample Delivery Details / Laboratory Receipt

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

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

T=3.2°C

Relinquished: Randy Morgan - Pace 11/12/21 1500 Rel MDG Pace HW 11-15-21 1800

MSH88 PACE HV 11/12/21 15:09 1.6°C

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

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.2a
Chain of Custody Number [1]:
LIMS Number:

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan

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
448LCR-Post	11-Nov-2021	1145		X		Drinking water	X	X	X	X							*by USEPA drinking water	
410LCR-Pre	↓	1155		X		↓	X	X	X	X							by method 524.2	
410LCR-Post		1200		X			X	X	X	X								
Trip Blank				X			X	X	X	X								

WK11049
KES2

Page 36 of 37

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	11-11-21	1602	PACE CLT Greenville	11.11.21	1550
2.	PACE CLT Greenville	11.12.21		PACE	11/12	1415
3.	PACE	11/12/21	1500	Amy Hamilton	11/11/21	1502

Sample Delivery Details / Laboratory Receipt

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

T 3.2°C

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

MSMSD PACE HW 11/12/21 15:00 1.6°C Rel MDG Pace HW 11-15-21 1800

Pace Analytical

Sample Condition Upon Receipt Form (SCUR)

Project # **WO#: 35679094**

Project Manager: PM: RJS Due Date: 12/03/21

Client: CLIENT: SHEALY

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:

Thermometer Used: T-392 Date: 11/17/21 Time: 1141 Initials: BLP

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	2.8 (Visual)	+0.1 (Correction Factor)	2.9 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Recheck for OOT °C (Visual) (Correction Factor) (Actual) Time: Initials:

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

Shipping Method: ☐ First Overnight ☒ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☒ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 9875 4047 1763

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☑ No **Ice:** Wet Blue Melted None

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

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☑N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐Yes ☐ No ☑N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Exceptions: Vials, Microbiology, O&G, PFAS		
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☐N/A	
Trip Blank Present:	☑Yes ☐ No ☐N/A	

Comments/ Resolution (use back for additional comments):

Client Sample ID's on Chain ~~689~~ 689 LCR PRE @10:50 & 689 POST @10:55 do not match vials ID Labels. Vial Labels state 684 LCR PRE @ 10:55 and 684 LCR Post @10:55

F-FL-C-007 rev.14
Issued: 08/24/21

Issuing Authority:
Pace Florida Quality Office

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 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 FA84747 were collected on November 11, 2021 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.

Select 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 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

YSI 556 MPS / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp, LAB, C :	23.8	Temp, FIELD, C :	

Conductivity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
1413 UMHO/CM @ 25°	7810246	9/20	1413		(+/- .5%)

PH 4.00	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°	7809359	10/20	3.99		(+/- 0.2 units)

PH 7.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°	7809236	9/20	7.10		(+/- 0.2 units)

PH 10.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25°	7809248	9/20	9.99		(+/- 0.2 units)

ORP ZOBELLS	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
231.0 MV @ 25°	7811585	2/19	237.6		(+/- 20 MV)

Dissolved Oxygen		Temp, C	% Saturation	mg/L	Acceptable Range
(Saturated Air)	Post-Cal, LAB	24.5	96.7	8.15	(+/- 2%) / (+/- 2%)
	Post-Cal, FIELD				

New DO Membrane: ○ Yes ⊗ No

Do Cap Color: ○ Black ○ Blue ◉ Yellow

Model	YSI - PRO PLUS	S/N	5485	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	2001146	JAN-22	0.02		(.0196 to .0204)
10 NTU	91102	NOV-21	10.13		(9.8 to 10.2)
1000 NTU	2001149	JAN-22	999		(970 to 1031)

Model	Micro TPW	S/N	20180917

Calibrated By	Eric Olson	Date of Calibration	10-15-21
Project Name	UTC	Project number	60656814
Signed :			

REV 6, 10/31/2018 EKO

YSI 556 MPS / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp, LAB, C :	23.9	Temp, FIELD, C :	

Conductivity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
1413 UMHO/CM @ 25C	7810246	9/20	1-41		(+/- .5%)

PH 4.00	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25C	7809359	10/20	4-01		(+/- 0.2 units)

PH 7.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25C	7809236	9/20	7.09		(+/- 0.2 units)

PH 10.01	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
@ 25C	7809248	9/20	9.98		(+/- 0.2 units)

ORP ZOBELLS	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
231.0 MV @ 25C	7811585	2/19	237.5		(+/- 20 MV)

Dissolved Oxygen		Temp, C	% Saturation	mg/L	Acceptable Range
(Saturated Air)	Post-Cal, LAB	25.8	96.7	7.93	
	Post-Cal, FIELD				(+/- 2%) / (+/- 2%)

New DO Membrane: ○ Yes ○ X 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	200 1146	JAN-22	0.02		(.0196 to .0204)
10 NTU	91102	NOV-21	10.16		(9.8 to 10.2)
1000 NTU	2001149	JAN-22	1009		(970 to 1031)

Model: Micro TPW S/N: 20180917 2

Calibrated By: Eric Olson Date of Calibration: 10-15-21

Project Name: VTC Project number: 60656814

Signed :

REV-6, 10/31/2018 EKO

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: VTC Delaveau
Project Number:
Calibrated By: M. Raeburn
Signature:

YSI ProPlus SN: 18H105489
Turbidity Meter Model/SN: 20180191T1
Additional Equipment SN: -
Date: 10-18-2021

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	763.9		1410	mmHg
Temperature (Saturated Air)	23.6	24.1	1411	C
Temperature (Calibration Solution)	19.7	20.3	1410	C
DO	8.93	9.06	1417	mg/L
pH 7	6.98	6.99	1413	SU
pH 4	3.96	3.97	1415	SU
pH 10	9.89	10.00	1416	SU
Specific Conductance	1276	1278	1418	mS/cm
ORP	337.6	239.5	1420	mV

MicroTPW Calibration

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

pH is off

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number: 60656814
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI ProPlus SN: 3932
Turbidity Meter Model/SN: 20180911-2
Additional Equipment SN:
Date: 10-18-2024

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	760.0		1420	mmHg
Temperature (Saturated Air)	21.6	21.8	1420	C
Temperature (Calibration Solution)	22.5	21.7	1440	C
DO	9.03	8.82	1420	mg/L
pH 7	7.11	7.02	1428	SU
pH 4	4.06	4.00	1432	SU
pH 10	10.02	10.05	1436	SU
Specific Conductance	1.41 ~~1.288~~	1.28	1424	mS/cm
ORP	243.6	237.5	1440	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: VTC Delaware
Project Number:
Calibrated By: M. Rockwell
Signature:

YSI ProPlus SN: 18H105489
Turbidity Meter Model/SN: 2018 09/71
Additional Equipment SN:
Date: 10-19-2021

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	764.3		0750	mmHg
Temperature (Saturated Air)	11.2°	12.6°	0751	C
Temperature (Calibration Solution)	13.9°	14.5°	0805	C
DO	10.18	10.17	0810	mg/L
pH 7	7.08	7.06	0753	SU
pH 4	4.03	4.01	0756	SU
pH 10	10.17	10.15	0759	SU
Specific Conductance	1029	1022	0812	mS/cm
ORP	250.6	250.5	0814	mV

MicroTPW Calibration

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

AECOM

FIELD INSTRUMENT CALIBRATION LOG

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

YSI 556 SN: ProPlus 3732
Turbidity Meter Model/SN:
Additional Equipment SN:
Date: 10-14-2021

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	762.7		0730	mmHg
Temperature (Saturated Air)	10.1	10.4	0730	C
Temperature (Calibration Solution)	15.0	15.2	0750	C
DO	11.32	11.22	0730	mg/L
pH 7	7.09	7.04	0738	SU
pH 4	3.98	4.00	0742	SU
pH 10	9.99	10.08	0746	SU
Specific Conductance	1.27	1.14	0734	mS/cm
ORP	251.1	244.0	0750	mV

MicroTPW Calibration

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

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: VTC Delaware
Project Number:
Calibrated By: M. Rodriguez
Signature:

YSI ProPlus SN: 18H0547 19
Turbidity Meter Model/SN: 22IX09171
Additional Equipment SN: —
Date: 10/20/21

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	763.8		0745	mmHg
Temperature (Saturated Air)	8.0	10.6	0746	C
Temperature (Calibration Solution)	15.0	14.0	0816	C
DO	7.19	14.18	0811	mg/L
pH 7	5.62	5.60	0806	SU
pH 4	2.43	3.67	0756	SU
pH 10	8.67	9.90	0809	SU
Specific Conductance	1.50	1.34	0816	mS/cm
ORP	331.7	244.7	0814	mV

MicroTPW Calibration

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

pH would not rise to calibration solution levels

MR

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delavan
Project Number: 60656814.12
Calibrated By: Randy Thorson
Signature: Randy Thorson

YSI 556 SN: Prothus 3737
Turbidity Meter Model/SN: 2018041102
Additional Equipment SN:
Date: 10-20-2021

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	764.0		0745	mmHg
Temperature (Saturated Air)	12.0	12.3	0745	C
Temperature (Calibration Solution)	15.5	15.8	0805	C
DO	10.91	10.74	0745	mg/L
pH 7	7.14	7.04	0753	SU
pH 4	3.99	4.00	0757	SU
pH 10	10.01	10.08	0801	SU
Specific Conductance	1.14	1.14	0749	mS/cm
ORP	240.7	244.0	0805	mV

MicroTPW Calibration

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

WATER LEVEL DATA SUMMARY

PROJECT: UTC Delavan Spray Technologies Site
JOB NUMBER:
LOCATION: Bamberg, South Carolina
DATE: 10-18-2021
CLIENT: UTC
MEASURED BY: M. Rockwell / R. 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
MW-1			TOC	12.21	
MW-2			TOC	12.05	
MW-3			TOC	13.86	
MW-3D			TOC	14.71	
MW-3D1			TOC	14.54	
MW-4			TOC	9.00	
MW-5			TOC	10.17	
MW-6			TOC	7.52	
MW-7			TOC	14.02	
MW-8			TOC	11.57	
MW-9			TOC	7.33	
MW-9D			TOC	10.25	
MW-10			TOC	7.02	
MW-10D			TOC	8.09	
MW-11			TOC	8.12	
MW-12D			TOC	14.29	
MW-13D			TOC	13.01	
MW-14			TOC	11.97	
MW-14D			TOC	13.64	
MW-15			TOC	4.12	Access road is damaged
MW-15D			TOC	2.69	
MW-15D1			TOC	2.79	
MW-16			TOC	5.15	
MW-16D			TOC	5.61	
MW-17			TOC	4.87	
MW-18			TOC	11.05	

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: 10-18-2021
CLIENT: UTC
MEASURED BY: 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
MW-19			TOC	13.03	
MW-20			TOC	12.77	
MW-21			TOC	13.28	
MW-21D			TOC	13.52	
MW-22D			TOC	12.85	
MW-23D			TOC	14.78	
MW-24			TOC	~~8.32~~	MW-24 value shown conflicted with 10/19/21 measurement. The latter is used.
MW-25D			TOC	6.22	
MW-26D			TOC	10.82	
MW-27			TOC	10.41	
MW-28			TOC	12.79	
MW-29			TOC	7.31	
MW-30D			TOC	5.20	
MW-31D			TOC	9.35	
MW-32DR			TOC	7.22	
MW-33D			TOC	13.24	
MW-34D			TOC	14.15	
MW-35D			TOC	12.00	
MW-36D			TOC	12.67	
MW-37			TOC	12.79	* No tubing

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): Oct 19 2021
Field Personnel: Randy Manya
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-1
____ Upgradient ____ Downgradient ____ Sidegradient __X__ Source
Weather Conditions: Clear Sunny
Air Temperature: 70's °F
Total Well Depth (TWD) = 18.00 1/100 ft
Depth to Ground Water (DGW) = 12.20 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 5.80 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 0.94 gal
3 Casing Volumes = 2.83 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: 147.56 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 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 1518
Sample Analytes VOC's
~~Hach 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)	1450	1455	1500	1505	1510	1515					
Water Level (ft BTOC)	12.35	12.55	12.80	12.98	13.20	13.43					
pH (S.U.)	4.58	4.30	4.29	4.31	4.29	4.27					
Sp. Cond. (mS/cm)	0.029	0.029	0.028	0.029	0.028	0.028					
Water Temp (°C)	24.7	24.6	24.9	24.9	24.9	24.9					
Turbidity (NTUs)	8.77	12.88	10.71	6.70	3.93	2.90					
DO - (mg/L)	2.54	2.31	2.61	2.16	1.90	1.84					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	281.5	290.2	291.3	292.4	296.6	299.2					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr): Oct 29 2021
Field Personnel: Kaitly Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-2
____ Upgradient __X__ Downgradient ____ Sidegradient ____ Source
Weather Conditions: clear / sunny
Air Temperature: 50's °F
Total Well Depth (TWD) = 18.00 1/100 ft
Depth to Ground Water (DGW) = 12.15 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 5.85 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 0.95 gal
3 Casing Volumes = 2.86 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: 147.63 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 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 0935
Sample Analytes VOC's
~~Hach 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	1.50					
VOLUME PURGED (gallons)											
TIME (Military)	0908	0913	0918	0923	0928	0933					
Water Level (ft BTOC)	12.20	12.22	12.23	12.23	12.23	12.23					
pH (S.U.)	6.05	5.21	4.83	4.67	4.62	4.58					
Sp. Cond. (mS/cm)	0.023	0.020	0.021	0.021	0.020	0.020					
Water Temp. (°C)	21.3	22.6	22.7	22.7	22.7	22.7					
Turbidity (NTUs)	57.37	41.33	7.91	0.00	0.00	0.00					
DO - (mg/L)	0.71	0.74	0.45	0.44	0.50	0.52					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	154.1	182.6	172.7	175.1	174.7	176.6					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr)	Oct 19 2021
Field Personnel	Kendy Mongon
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-3
Upgradient / Downgradient / Sidegradient / Source	Upgradient X Downgradient Sidegradient Source
Weather Conditions	Clear / Sunny
Air Temperature	70's °F
Total Well Depth (TWD) =	18.00 1/100 ft
Depth to Ground Water (DGW) =	13.88 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	4.12 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	0.67 gal
3 Casing Volumes =	2.01 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	148.11 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 ____ NO X
Well Integrity Satisfactory	YES X NO ____
Yield	LOW ____ MODERATE ____ HIGH X
Comments/Observations	
Sample Time	1427
Sample Analytes	VOC's
~~Hach 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)											
TIME (Military)	1400	1405	1410	1415	1420	1425					
Water Level (ft BTOC)	14.01	14.13	14.22	14.30	14.34	14.36					
pH (S.U.)	6.24	5.29	4.94	4.51	4.63	4.58					
Sp. Cond. (mS/cm)	0.020	0.019	0.019	0.019	0.019	0.019					
Water Temp. (°C)	25.3	25.4	25.4	25.4	25.4	25.5					
Turbidity (NTUs)	3.48	3.38	1.83	1.56	2.01	1.47					
DO - (mg/L)	3.31	3.35	3.43	3.53	3.58	3.69					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	232.5	273.5	286.8	302.3	299.4	300.0					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr)	Oct 19, 2021
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	Clear / Sunny
Air Temperature	70's °F
Total Well Depth (TWD) =	49.00 1/100 ft
Depth to Ground Water (DGW) =	14.77 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	1.80 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 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	1348
Sample Analytes	VOCs ~~APP FIRSR~~ Rm
~~Hach 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	1.80				
TIME (Military)	1315	1320	1325	1330	1335	1340	1345				
Water Level (ft BTOC)	14.73	14.73	14.73	14.73	14.73	14.73	14.73				
pH (S.U.)	7.64	7.48	7.43	7.41	7.43	7.39	7.41				
Sp. Cond. (mS/cm)	0.187	0.214	0.215	0.215	0.216	0.216	0.216				
Water Temp. (°C)	23.1	22.8	22.9	22.7	22.7	22.4	22.4				
Turbidity (NTUs)	1.43	0.39	0.93	1.23	0.57	0.55	0.24				
DO - (mg/L)	1.97	2.1	2.05	2.35	2.28	2.45	2.50				
Salinity (ppt)	0.09	0.10	0.10	0.10	0.10	0.10	0.10				
ORP (mV)	204.6	203.6	201.6	200.9	199.0	198.3	194.1				

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-5
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions: clear + sunny
Air Temperature: 78° F
Total Well Depth (TWD) = 14.00 1/100 ft
Depth to Ground Water (DGW) = 10.17 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: 145.46 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 @ 1510
Sample Analytes VOCs
~~Hach 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	0.10	0.30	0.50	0.75	1.0	1.25				
VOLUME PURGED (gallons)											
TIME (Military)	1435	1440	1445	1450	1455	1500	1505				
Water Level (ft BTOC)	10.36	10.52	10.69	11.00	11.20	11.36	11.44				
pH (S.U.)	3.46	3.09	2.87	2.70	2.56	2.54	2.54				
Sp. Cond. (mS/cm)	0.022	0.021	0.022	0.021	0.021	0.021	0.022				
Water Temp. (°C)	23.9°	24.0°	24.0°	24.1°	24.1°	24.3°	24.3°				
Turbidity (NTUs)	222.6	55.64	25.20	12.95	8.74	9.37	8.69				
DO - (mg/L)	5.36	5.50	5.35	5.47	5.44	5.33	5.37				
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
ORP (mV)	250.3	265.2	273.6	284.2	293.7	298.5	298.3				

COMMENTS/OBSERVATIONS: * Not sure why pH is so low - been low on last two wells (MW-14 + MW-5) (451 B in sunlight)

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr)	Oct 20, 2021
Field Personnel	Randy Monga
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-7
____ Upgradient __X__ Downgradient ____ Sidegradient ____ Source	
Weather Conditions	Clear / Sunny
Air Temperature	60's °F
Total Well Depth (TWD) =	20.00 1/100 ft
Depth to Ground Water (DGW) =	14.07 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	5.93 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	0.96 gal
3 Casing Volumes =	2.89 gal = Standard Evacuation Volume
Method of Sample Evacuation	Purge with Peristaltic Pump
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed	1.50 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 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	1053
Sample Analytes	VOC's
~~Hach 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)	1028	1033	1038	1043	1048	1053					
Water Level (ft BTOC)	14.22	14.43	14.75	15.05	15.28	15.52					
pH (S.U.)	4.36	4.47	4.43	4.36	4.41	4.40					
Sp. Cond. (mS/cm)	0.014	0.016	0.014	0.014	0.015	0.016					
Water Temp. (°C)	22.4	23.1	23.6	23.6	23.7	23.6					
Turbidity (NTUs)	2.89	0.43	0.00	0.00	0.00	0.00					
DO - (mg/L)	5.02	5.00	4.72	4.80	4.82	4.69					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	235.6	263.5	273.5	284.2	288.6	294.7					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 19 2021
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-8
____ Upgradient X Downgradient ____ Sidegradient ____ Source	
Weather Conditions	Clear/Sunny
Air Temperature	70's °F
Total Well Depth (TWD) =	20.00 1/100 ft
Depth to Ground Water (DGW) =	11.57 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	8.43 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	1.37 gal
3 Casing Volumes =	4.12 gal = Standard Evacuation Volume
Method of Sample Evacuation	Purge with Peristaltic Pump
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed	1.80 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 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	1610
Sample Analytes	VOCs
~~Hach 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	1.80				
TIME (Military)	1538	1543	1548	1553	1558	1603	1608				
Water Level (ft BTOC)	11.75	11.82	11.92	11.97	12.02	12.05	12.10				
pH (S.U.)	4.38	4.36	4.29	4.28	4.26	4.25	4.20				
Sp. Cond. (mS/cm)	0.062	0.062	0.058	0.064	0.069	0.061	0.065				
Water Temp. (°C)	27.7	27.9	27.9	27.8	27.8	27.8	27.6				
Turbidity (NTUs)	2.14	0.03	0.00	0.01	0.49	0.27	0.04				
DO - (mg/L)	1.77	1.66	1.69	1.56	1.70	1.85	1.83				
Salinity (ppt)	0.03	0.03	0.03	0.03	0.03	0.03	0.03				
ORP (mV)	305.0	305.0	308.5	310.9	310.1	313.2	311.9				

COMMENTS/OBSERVATIONS

* MS/MSD *

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/18/2021
Field Personnel	M. Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-9
___ Upgradient X Downgradient ___ Sidegradient ___ Source	
Weather Conditions	clear + sunny
Air Temperature	73. °F
Total Well Depth (TWD) =	20.00 1/100 ft
Depth to Ground Water (DGW) =	7.33 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	1.0 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 ___ 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	@ 1620 * MS/MSD *
Sample Analytes	VOCs
~~Hach 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	0.15	0.30	0.50	0.70	0.95					
TIME (Military)	1550	1555	1600	1605	1610	1615					
Water Level (ft BTOC)	7.42	7.70	7.81	7.90	7.92	7.93					
pH (S.U.)	4.11	3.93	3.93	3.98	3.99	3.99					
Sp. Cond. (mS/cm)	0.030	0.029	0.029	0.029	0.029	0.029					
Water Temp. (°C)	20.3°	21.1°	21.2°	21.4°	21.4°	21.5°					
Turbidity (NTUs)	24.99	39.73	27.15	21.64	22.65	21.96					
DO - (mg/L)	0.75	0.49	0.42	0.36	0.33	0.30					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	225.3	233.0	231.5	229.5	228.0	227.9					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/18/2021
Field Personnel: Manah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-10
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions: Clear + Sunny
Air Temperature: 72° °F
Total Well Depth (TWD) = 18.00 1/100 ft
Depth to Ground Water (DGW) = 7.02 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: 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 ____ 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 @1735
Sample Analytes VOCs
~~Hach 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					
TIME (Military)	1705	1710	1715	1720	1725	1730					
Water Level (ft BTOC)	7.05	7.16	7.16	7.16	7.19	7.17					
pH (S.U.)	5.59	4.69	4.56	4.56	4.55	4.55					
Sp. Cond. (mS/cm)	0.052	0.047	0.048	0.036	0.035	0.035					
Water Temp. (°C)	19.3°	19.4°	19.5°	19.7°	19.9°	19.9°					
Turbidity (NTUs)	32.41	9.43	9.03	8.95	9.19	8.99					
DO - (mg/L)	1.45	0.18	0.13	0.13	0.13	0.15					
Salinity (ppt)	0.02	0.02	0.02	0.02	0.01	0.01					
ORP (mV)	117.5	121.9	122.6	123.3	124.2	124.6					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/18/2021
Field Personnel: Mandi Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-10D
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions: clear + sunny
Air Temperature: 74° F
Total Well Depth (TWD) = 48.00 1/100 ft
Depth to Ground Water (DGW) = 8.09 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: 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 ___ 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 @1700
Sample Analytes VOCs
~~Hach 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)		0.15	0.30	0.50	0.75	1.0					
TIME (Military)	1630	1635	1640	1645	1650	1655					
Water Level (ft BTOC)	8.10	8.10	8.10	8.11	8.11	8.12					
pH (S.U.)	5.97	6.25	6.73	6.80	6.80	6.81					
Sp. Cond. (mS/cm)	0.240	0.240	0.245	0.246	0.247	0.247					
Water Temp. (°C)	18.5°	19.0°	19.0°	19.0°	19.0°	19.1°					
Turbidity (NTUs)	12.27	8.01	4.90	3.65	2.81	4.86					
DO - (mg/L)	4.88	4.49	3.92	3.90	3.91	3.95					
Salinity (ppt)	0.11	0.11	0.12	0.12	0.12	0.12					
ORP (mV)	221.1	219.2	199.1	195.5	194.2	193.9					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 19, 2021
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: clear / sunny
Air Temperature: 60's °F
Total Well Depth (TWD) = 50.00 1/100 ft
Depth to Ground Water (DGW) = 14.35 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 35.65 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 5.81 gal
3 Casing Volumes = 17.43 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: 3.5 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 ____ NO X
Well Integrity Satisfactory: YES X NO ____
Yield: LOW ____ MODERATE ____ HIGH X
Comments/Observations
Sample Time 1010
Sample Analytes VOC'S
~~Hach 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	.50	1.0	1.5	2.0	2.5	3.0	3.25	3.5		
VOLUME PURGED (gallons)											
TIME (Military)	0903	0913	0923	0933	0943	0953	0958	1003	1008		
Water Level (ft BTOC)	14.80	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70		
pH (S.U.)	9.40	9.46	9.34	9.19	9.04	8.88	8.84	8.80	8.76		
Sp. Cond. (mS/cm)	0.182	0.168	0.172	0.176	0.181	0.188	0.190	0.191	0.192		
Water Temp. (°C)	17.9	18.3	18.3	18.4	18.4	18.5	18.5	18.5	18.5		
Turbidity (NTUs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
DO - (mg/L)	3.03	3.52	3.51	3.55	3.56	3.52	3.51	3.57	3.57		
Salinity (ppt)	0.09	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09		
ORP (mV)	179.0	196.3	178.1	184.7	186.4	190.2	184.9	191.8	180.7		

COMMENTS/OBSERVATIONS
Ph and Conductivity are high stabilize after 5 gals take readings every 10 minutes until stabalizes

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr)	Oct 19, 2021
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	Clear / Sunny
Air Temperature	60's °F
Total Well Depth (TWD) =	50.00 1/100 ft
Depth to Ground Water (DGW) =	~~13.89~~ 13.00 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	37.00 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	6.03 gal
3 Casing Volumes =	18.09 gal = Standard Evacuation Volume
Method of Sample Evacuation	Purge with Peristaltic Pump
Method of Sample Collection	Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed	1.80 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	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 X
Comments/Observations	
Sample Time	1233
Sample Analytes	VOC's
~~Hach 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)

	1200	1205	1210	1215	1220	FIELD ANALYSIS					
VOLUME PURGED (gallons)	Initial	0.30	0.60	0.90	1.20	1.50	1.80				
TIME (Military)	~~AM 1030~~	~~1035~~	~~1040~~	~~1045~~	~~1050~~	1225	1230				
Water Level (ft BTOC)	13.02	13.02	13.02	13.02	13.02	13.02	13.02				
pH (S.U.)	6.26	7.02	7.23	7.35	7.41	7.40	7.49				
Sp. Cond. (mS/cm)	0.196	0.203	0.204	0.205	0.205	0.205	0.205				
Water Temp. (°C)	19.9	19.9	19.9	19.8	19.8	19.9	19.8				
Turbidity (NTUs)	0.57	0.35	0.00	0.00	0.00	0.00	0.00				
DO - (mg/L)	3.00	3.18	2.97	3.30	3.16	3.08	2.98				
Salinity (ppt)	0.09	0.10	0.10	0.10	0.10	0.10	0.10				
ORP (mV)	254.4	238.8	235.6	232.0	230.3	226.0	224.3				

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
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: clear + sunny
Air Temperature: 78. °F
Total Well Depth (TWD) = 20.00 1/100 ft
Depth to Ground Water (DGW) = 11.97 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: 1.40 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 @1410
Sample Analytes VOCs
~~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	0.15	0.30	0.45	0.60	0.75	1.0	1.20			
VOLUME PURGED (gallons)											
TIME (Military)	1330	1335	1340	1345	1350	1355	1400	1405			
Water Level (ft BTOC)	11.97	12.54	12.92	13.12	13.60	13.75	14.10	14.25			
pH (S.U.)	4.33	3.30	3.10	2.95	2.74	2.70	2.74	2.74			
Sp. Cond. (mS/cm)	0.035	0.031	0.032	0.027	0.026	0.027	0.026	0.026			
Water Temp. (°C)	23.6	24.0	24.4	24.3	24.7	24.9	24.9	24.8			
Turbidity (NTUs)	24.74	10.22	9.38	9.48	9.23	9.83	9.88	9.70			
DO - (mg/L)	5.35	5.61	6.18	5.45	5.76	5.30	5.28	5.31			
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
ORP (mV)	205.3	229.5	240.1	255.5	274.2	277.2	279.6	280.9			

COMMENTS/OBSERVATIONS * 451 in direct sunlight - not certain pH is accurate *

Dup

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
Field Personnel: Mahah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-14D
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions: clear + sunny
Air Temperature: 75 °F
Total Well Depth (TWD) = 50.00 1/100 ft
Depth to Ground Water (DGW) = 13.64 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: 146.88 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 X HIGH X
Comments/Observations
Sample Time @ 1320 *Dup*
Sample Analytes: VOCs
Hach 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	0.15	0.25	0.35	0.60	0.85					
VOLUME PURGED (gallons)											
TIME (Military)	1250	1255	1300	1305	1310	1315					
Water Level (ft BTOC)	13.64	13.66	13.66	13.66	13.66	13.66					
pH (S.U.)	5.97	5.89	5.78	5.82	5.84	5.84					
Sp. Cond. (mS/cm)	0.260	0.258	0.258	0.253	0.253	0.254					
Water Temp. (°C)	23.1	22.8	22.9	26.4	23.7	23.2					
Turbidity (NTUs)	219.8	81.60	25.38	10.89	10.17	10.16					
DO - (mg/L)	1.10	0.36	0.27	0.31	0.33	0.32					
Salinity (ppt)	0.12	0.12	0.12	0.12	0.12	0.12					
ORP (mV)	104.5	115.4	122.8	121.0	124.2	129.3					

COMMENTS/OBSERVATIONS: * Meter sitting in direct sunlight - rises temps *

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/18/2021
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: clear + sunny
Air Temperature: 73° F
Total Well Depth (TWD) = 26.40 1/100 ft
Depth to Ground Water (DGW) = 11.05 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 __ 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 X HIGH X
Comments/Observations
Sample Time @ 1540
Sample Analytes VOCs
~~Hach 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	0.15	0.30	0.45	0.60						
VOLUME PURGED (gallons)											
TIME (Military)	1515	1520	1525	1530	1535						
Water Level (ft BTOC)	10.06	11.06	11.18	11.18	11.20						
pH (S.U.)	4.12	3.97	3.91	3.90	3.90						
Sp. Cond. (mS/cm)	0.048	0.049	0.049	0.050	0.050						
Water Temp. (°C)	21.3°	21.3°	21.4°	21.4°	21.3°						
Turbidity (NTUs)	17.30	4.04	4.94	4.43	3.45						
DO - (mg/L)	1.23	1.21	1.24	1.16	1.12						
Salinity (ppt)	0.02	0.02	0.02	0.02	0.02						
ORP (mV)	195.7	196.7	199.8	198.8	198.7						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 15, 2021
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: mostly sunny
Air Temperature: 70's °F
Total Well Depth (TWD) = 20.15 1/100 ft
Depth to Ground Water (DGW) = 13.03 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 7.12 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 = 0.29 gal
3 Casing Volumes = 0.87 gal = Standard Evacuation Volume
Method of Sample Evacuation: Purge with Peristaltic Pump
Method of Sample Collection: Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed: 0.75 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 ___ MODERATE X HIGH ___
Comments/Observations
Sample Time: 1805
Sample Analytes: VOC's
~~Hach 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)		0.15	0.30	0.45	0.60	0.75					
TIME (Military)	1738	1743	1748	1753	1758	1803					
Water Level (ft BTOC)	13.32	13.45	13.50	13.55	13.60	13.62					
pH (S.U.)	4.21	4.10	4.09	4.09	4.08	4.09					
Sp. Cond. (mS/cm)	0.091	0.082	0.080	0.078	0.077	0.076					
Water Temp. (°C)	22.3	22.1	22.1	22.1	22.1	22.1					
Turbidity (NTUs)	2.20	0.70	0.00	0.00	0.00	0.00					
DO - (mg/L)	2.27	1.30	1.36	1.24	1.16	1.16					
Salinity (ppt)	0.04	0.04	0.04	0.04	0.04	0.03					
ORP (mV)	321.2	332.0	335.1	336.4	339.0	339.7					

COMMENTS/OBSERVATIONS: the expansion cap was off well, not bolted down, tubing missing upon arrival

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 18, 2021
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: mostly sunny 70s
Air Temperature: ____ °F
Total Well Depth (TWD) = 15.15 1/100 ft
Depth to Ground Water (DGW) = 12.74 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 2.41 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 = 0.09 gal
3 Casing Volumes = 0.29 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: 0.60 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 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 1615
Sample Analytes VOCs
~~Hach 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)

		0.15	0.30	0.60	0.45 FIELD ANALYSES	0.60					
VOLUME PURGED (gallons)	Initial	~~0.30~~	~~0.60~~	~~0.90~~	~~1.20~~	~~1.50~~					
TIME (Military)	1548	1553	1558	1603	1608	1613					
Water Level (ft BTOC)	13.13	13.15	13.15	13.17	13.17	13.17					
pH (S U)	5.37	4.27	4.25	4.25	4.28	4.24					
Sp Cond (mS/cm)	0.038	0.030	0.030	0.030	0.030	0.030					
Water Temp (°C)	21.4	21.4	21.4	21.3	21.4	21.3					
Turbidity (NTUs)	8.05	0.75	0.64	0.44	0.00	0.00					
DO - (mg/L)	3.56	3.12	2.66	2.66	2.62	2.69					
Salinity (ppt)	0.02	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	224.9	245.1	246.2	253.5	263.7	272.3					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 20 2021
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-21
___ Upgradient ___ Downgradient ___ Sidegradient	___ X ___ Source
Weather Conditions	Clear Sunny
Air Temperature	60's ° F
Total Well Depth (TWD) =	34 40 1/100 ft
Depth to Ground Water (DGW) =	1330 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	21.10 1/100 ft
1 Casing Volume (OCV)* = LWC x 0 163 =	3.43 gal
3 Casing Volumes =	11.82 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 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	1015
Sample Analytes	VOC's
~~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)	0948	0953	0958	1003	1008	1013					
Water Level (ft BTOC)	14.20	14.45	14.73	14.80	14.87	14.93					
pH (S.U.)	4.34	4.47	4.43	4.46	4.41	4.42					
Sp. Cond. (mS/cm)	0.017	0.016	0.016	0.016	0.016	0.016					
Water Temp. (°C)	21.0	21.0	21.1	21.1	21.2	21.5					
Turbidity (NTUs)	4.35	0.00	0.00	0.00	0.00	0.00					
DO - (mg/L)	0.32	0.22	0.17	0.16	0.15	0.15					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	213.4	212.0	216.3	217.3	222.9	229.0					

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	Oct 20, 2021
Field Personnel	Randy Morgan
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-21D
____ Upgradient ____ Downgradient ____ Sidegradient	X Source
Weather Conditions	clear / sunny
Air Temperature	50's °F
Total Well Depth (TWD) =	53.40 1/100 ft
Depth to Ground Water (DGW) =	13.57 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	2.70 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 ____
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	0857
Sample Analytes	VOC's
~~Hach 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	1.80	2.10	2.40	2.70
TIME (Military)	0810	0815	0820	0825	0830	0835	0840	0845	0850	0855
Water Level (ft BTOC)	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57	13.57
pH (S.U.)	9.62	10.37	10.11	8.46	7.98	7.85	7.81	7.66	7.68	7.65
Sp. Cond. (mS/cm)	0.294	0.288	0.231	0.207	0.208	0.207	0.206	0.208	0.207	0.207
Water Temp. (°C)	19.7	20.1	20.4	20.5	20.4	20.4	20.6	20.6	20.7	20.8
Turbidity (NTUs)	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DO (mg/L)	1.71	1.54	1.22	0.37	0.25	0.27	0.24	0.22	0.25	0.31
Salinity (ppt)	0.14	0.14	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10
ORP (mV)	170.4	160.4	161.2	130.2	34.4	9.4	~~19.5~~ -1.0	-9.9	-19.5	-24.6

COMMENTS/OBSERVATIONS ____

Dup

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	10/19/2021
Field Personnel	Mariah Rockwell
Site Name	UTC Delavan Spray Technologies Site
AECOM Job #	60314964
Sample ID*	MW-22D
Upgradient / Downgradient / Sidegradient / Source	_ / X / _ / _
Weather Conditions	clear + sunny
Air Temperature	70° F
Total Well Depth (TWD) =	48.40 1/100 ft
Depth to Ground Water (DGW) =	12.85 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	145.96 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 _ 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	@1210 *Dup*
Sample Analytes	VOCs
~~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)		0.10	0.25	0.40	0.60	0.80	1.10				
TIME (Military)	1135	1140	1145	1150	1155	1200	1205				
Water Level (ft BTOC)	12.85	12.87	12.87	12.87	12.87	12.87	12.87				
pH (S.U.)	6.38	6.17	6.13	6.03	6.07	6.08	6.07				
Sp. Cond. (mS/cm)	0.280	0.276	0.277	0.282	0.289	0.289	0.290				
Water Temp. (°C)	22.2°	22.6°	22.7°	22.7°	23.2°	23.2°	23.2°				
Turbidity (NTUs)	14.25	9.36	15.45	19.45	17.42	16.62	17.10				
DO - (mg/L)	4.57	1.73	1.75	2.10	2.37	2.39	2.40				
Salinity (ppt)	0.13	0.13	0.13	0.13	0.14	0.14	0.14				
ORP (mV)	160.9	171.9	173.5	175.1	169.6	169.3	168.3				

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
Field Personnel: Manah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-24
_____ Upgradient X Downgradient _____ Sidegradient _____ Source
Weather Conditions: clear + Sunny
Air Temperature: 77° F
Total Well Depth (TWD) = 21.00 1/100 ft
Depth to Ground Water (DGW) = ~~8.32~~ 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: 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 @ 1620
Sample Analytes VOCs
~~Hach Fe Kit~~ ~~mg/L~~

MW-24 value shown conflicted with 10/19/21 measurement. The latter is used.

* - 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	0.10	0.25	0.40	0.65	0.90	1.15	1.30	1.45	1.60
VOLUME PURGED (gallons)										
TIME (Military)	1530	1535	1540	1545	1550	1555	1600	1605	1610	1615
Water Level (ft BTOC)	14.40	14.45	14.45	14.45	14.45	14.45	14.45	14.45	14.45	14.45
pH (S.U.)	2.88	2.64	3.05	2.79	2.54	2.41	2.35	2.29	2.27	2.28
Sp. Cond. (mS/cm)	0.019	0.019	0.020	0.019	0.019	0.019	0.019	0.019		
Water Temp. (°C)	21.3°	21.6°	21.5°	21.3°	21.3°	21.2°	21.2°			
Turbidity (NTUs)	22.21	17.47	12.54	14.31	12.16	11.06	12.01			
DO - (mg/L)	4.45	4.48	4.62	4.51	4.65	4.55	4.47			
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
ORP (mV)	269.3	251.4	268.3	281.4	299.0	306.1	313.8			

COMMENTS/OBSERVATIONS: * Low pH on last three wells - cleaned YSI Sensor

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
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: clear + sunny
Air Temperature: 56° °F
Total Well Depth (TWD) = 62.00 1/100 ft
Depth to Ground Water (DGW) = 6.22 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: 0.80 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 ___ 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 @1045
Sample Analytes VOCs
~~Hach 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)		0.15	0.25	0.40	0.60						
TIME (Military)	1020	1025	1030	1035	1040						
Water Level (ft BTOC)	6.24	6.26	6.26	6.25	6.25						
pH (S.U.)	6.42	6.40	6.25	6.25	6.25						
Sp. Cond. (mS/cm)	0.295	0.294	0.293	0.292	0.293						
Water Temp. (°C)	22.0°	21.6°	21.7°	21.7°	21.7°						
Turbidity (NTUs)	3.01	3.09	5.40	7.72	7.04						
DO - (mg/L)	1.60	2.33	2.34	2.32	2.34						
Salinity (ppt)	0.14	0.14	0.14	0.14	0.14						
ORP (mV)	173.9	179.7	184.5	184.3	185.0						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
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: clear + sunny
Air Temperature: 56° F
Total Well Depth (TWD) = 48.00 1/100 ft
Depth to Ground Water (DGW) = 10.82 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: 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 ✓ NO ___ Type tubing
Steel Guard Pipe Around Casing: YES ___ NO ✓
Locking Cap: YES ✓ NO ___
Protective Post/Abutment: YES ___ NO ✓
Well Integrity Satisfactory: YES ✓ NO ___
Yield: LOW ___ MODERATE ✓ HIGH X
Comments/Observations
Sample Time @1015
Sample Analytes: VOCs
~~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)		0.15	0.30	0.60	0.85	1.0	1.2				
TIME (Military)	0940	0945	0950	0955	1000	1005	1010				
Water Level (ft BTOC)	10.82	10.81	10.84	10.84	10.85	10.85	10.85				
pH (S.U.)	6.19	6.13	6.10	6.04	6.06	6.05	6.05				
Sp. Cond. (mS/cm)	0.277	0.292	0.296	0.299	0.297	0.297	0.298				
Water Temp. (°C)	20.5°	21.0°	21.2°	21.2°	21.3°	21.4°	21.4°				
Turbidity (NTUs)	32.97	4.14	3.41	4.59	4.30	4.25	4.80				
DO - (mg/L)	2.64	1.97	1.86	2.01	1.88	1.86	1.88				
Salinity (ppt)	0.13	0.14	0.14	0.14	0.14	0.14	0.14				
ORP (mV)	217.7	212.3	210.3	209.6	210.5	207.2	202.2				

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr) Oct 12, 2021
Field Personnel Kendy Morgan
Site Name UTC Delavan Spray Technologies Site
AECOM Job # 60314964
Sample ID* MW-27
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions Clear Sunny
Air Temperature 60's °F
Total Well Depth (TWD) = 29.00 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 1.50 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 1138
Sample Analytes VOC's
~~Hach 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)	1110	1115	1120	1125	1130	1135					
Water Level (ft BTOC)	10.82	11.10	11.25	11.28	11.31	11.33					
pH (S.U.)	6.18	5.05	4.74	4.67	4.58	4.54					
Sp. Cond. (mS/cm)	0.034	0.033	0.033	0.033	0.033	0.033					
Water Temp. (°C)	20.3	20.5	20.6	20.6	20.6	20.6					
Turbidity (NTUs)	0.00	0.88	3.66	1.55	1.05	0.77					
DO - (mg/L)	5.19	5.10	5.19	5.07	5.18	5.12					
Salinity (ppt)	0.01	0.01	0.01	0.01	0.01	0.01					
ORP (mV)	215.4	280.3	297.5	306.8	310.4	315.3					

COMMENTS/OBSERVATIONS ____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 19 2021
Field Personnel: Randy 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: 60's °F
Total Well Depth (TWD) = 29.00 1/100 ft
Depth to Ground Water (DGW) = 12.89 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 16.11 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 2.62 gal
3 Casing Volumes = 7.87 gal = Standard Evacuation Volume
Method of Sample Evacuation: Purge with Peristaltic Pump
Method of Sample Collection: Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed: 1.80 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: 1103
Sample Analytes: VOC's
~~Hach 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	1.80				
TIME (Military)	1030	1035	1040	1045	1050	1055	1100				
Water Level (ft BTOC)	13.52	13.87	14.05	14.08	14.15	14.17	14.18				
pH (S.U.)	7.63	7.04	6.81	6.70	6.68	6.63	6.68				
Sp. Cond. (mS/cm)	0.120	0.116	0.129	0.137	0.144	0.152	0.154				
Water Temp. (°C)	18.6	19.2	19.3	19.3	19.3	19.4	19.4				
Turbidity (NTUs)	9.44	7.23	5.33	3.36	3.00	3.41	2.84				
DO - (mg/L)	1.47	1.82	1.84	1.87	1.63	1.61	1.65				
Salinity (ppt)	0.06	0.05	0.06	0.06	0.06	0.06	0.07				
ORP (mV)	190.7	192.3	193.5	194.5	194.1	195.7	193.5				

COMMENTS/OBSERVATIONS

No sample Did Not Need this event

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Page ____ of ____

Date (mo/day/yr): Oct 19, 2021
Field Personnel: Randy Monyo
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-29
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Clear Sunny
Air Temperature: 50's °F
Total Well Depth (TWD) = 29.00 1/100 ft
Depth to Ground Water (DGW) = 7.34 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: 1.25 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: 0838
Sample Analytes: VOC's
~~Hach 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	1.0	1.25					
TIME (Military)	0810	0815	0820	0825	0830	0835					
Water Level (ft BTOC)	7.33	7.62	7.64	7.64	7.64	7.64					
pH (S.U.)	6.04	5.26	4.98	4.93	4.91	4.91					
Sp. Cond. (mS/cm)	0.051	0.040	0.038	0.037	0.037	0.037					
Water Temp. (°C)	16.4	17.6	17.9	17.9	18.1	18.1					
Turbidity (NTUs)	0.00	0.00	0.00	0.00	0.00	0.00					
DO - (mg/L)	0.98	0.78	0.74	0.70	0.63	0.61					
Salinity (ppt)	0.02	0.02	0.02	0.02	0.02	0.02					
ORP (mV)	200.3	200.0	210.9	223.2	226.3	233.1					

COMMENTS/OBSERVATIONS ____

* MS/MSD *

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
Field Personnel:
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #:
Sample ID*: MW-30D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: Clear + Sunny
Air Temperature: 40 °F
Total Well Depth (TWD) = 59.78 1/100 ft
Depth to Ground Water (DGW) = 5.20 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: 1.4 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 ____ NO ____ Type ____
Steel Guard Pipe Around Casing YES ____ NO ____
Locking Cap YES ____ NO ____
Protective Post/Abutment YES ____ NO ____
Well Integrity Satisfactory YES ____ NO ____
Yield LOW ____ MODERATE ____ HIGH ____
Comments/Observations
Sample Time @0840 *MS/MSD*
Sample Analytes VOCs
~~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)		0.15	0.30	0.60	0.85	1.0	1.2				
TIME (Military)	0805	0810	0815	0820	0825	0830	0835				
Water Level (ft BTOC)	5.22	5.23	5.23	5.23	5.23	5.23	5.22				
pH (S.U.)	5.46	5.74	6.05	6.10	6.21	6.22	6.22				
Sp. Cond. (mS/cm)	0.285	0.288	0.289	0.289	0.290	0.290	0.290				
Water Temp. (°C)	19.3	19.1	19.2	19.3	19.5	19.6	19.7				
Turbidity (NTUs)	8.97	5.98	4.95	3.12	3.86	4.20	3.69				
DO - (mg/L)	2.65	2.49	2.42	2.36	2.42	2.39	2.37				
Salinity (ppt)	0.14	0.14	0.14	0.14	0.14	0.14	~~0.14~~ 0.14				
ORP (mV)	309.1	298.7	278.0	273.8	262.8	259.9	258.8				

COMMENTS/OBSERVATIONS: * couldn't get both bolts bolted down - lid doesn't sit flush

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-31D
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions: clear + sunny
Air Temperature: 46° F
Total Well Depth (TWD) = 60.35 1/100 ft
Depth to Ground Water (DGW) = 9.35 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: 1.6 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 ___ 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: @ 0930
Sample Analytes: VOCs
~~Hach 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	1.2	1.4			
TIME (Military)	0850	0855	0900	0905	0910	0915	0920	0925			
Water Level (ft BTOC)	9.37	9.39	9.38	9.40	09.40	09.40	9.40	9.40			
pH (S.U.)	6.02	6.08	6.08	6.03	6.00	5.96	5.92	5.93			
Sp. Cond. (mS/cm)	0.277	0.277	0.277	0.277	0.277	0.278	0.276	0.277			
Water Temp. (°C)	19.0°	19.7°	19.7°	19.8°	19.9°	20.1°	19.9°	19.8°			
Turbidity (NTUs)	6.27	6.20	5.61	5.17	4.86	4.73	5.17	4.78			
DO - (mg/L)	4.44	4.48	4.32	4.22	3.90	3.83	3.74	3.78			
Salinity (ppt)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13			
ORP (mV)	261.8	257.7	257.2	256.9	253.9	249.6	243.5	241.9			

COMMENTS/OBSERVATIONS

* Dup *

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/19/2021
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-32DR
_____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: clear + sunny
Air Temperature: 70° ° F
Total Well Depth (TWD) = 53.65 1/100 ft
Depth to Ground Water (DGW) = 7.22 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 _____ 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 ____ 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 @ 1120 * Dup *
Sample Analytes: VOCs
~~Hach 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)		0.10	0.25	0.50	0.80						
TIME (Military)	1055	1100	1105	1110	1115						
Water Level (ft BTOC)	7.20	7.25	7.25	7.25	7.25						
pH (S.U.)	6.34	6.02	5.81	5.80	5.80						
Sp. Cond. (mS/cm)	0.215	0.214	0.213	0.212	0.212						
Water Temp. (°C)	21.6°	21.5°	21.5°	21.6°	21.7°						
Turbidity (NTUs)	10.43	10.63	10.13	10.11	9.99						
DO - (mg/L)	1.45	1.32	0.93	0.98	0.95						
Salinity (ppt)	0.10	0.10	0.10	0.10	0.09						
ORP (mV)	178.9	187.3	194.3	195.0	196.6						

COMMENTS/OBSERVATIONS _____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/2021
Field Personnel: Manah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: ~~MW-36D~~ MW-33D
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions: clear + sunny
Air Temperature: 59. °F
Total Well Depth (TWD) = ~~65.82~~ 76.35 1/100 ft
Depth to Ground Water (DGW) = ~~12.69~~ 13.24 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 X NO ___
Protective Post/Abutment YES ___ NO X
Well Integrity Satisfactory YES X NO ___
Yield LOW ___ MODERATE X HIGH ___
Comments/Observations
Sample Time: @ 1020
Sample Analytes: VOCs
~~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)		0.10	0.25	0.50	0.70						
TIME (Military)	0955	1000	1005	1010	1015						
Water Level (ft BTOC)	13.70	13.26	13.28	13.30	13.30						
pH (S.U.)	6.13	5.96	5.89	5.91	5.90						
Sp. Cond. (mS/cm)	0.245	0.243	0.243	0.244	0.244						
Water Temp. (°C)	20.3°	20.4°	20.7°	20.4°	20.5°						
Turbidity (NTUs)	8.79	6.05	5.55	6.09	6.41						
DO - (mg/L)	0.77	0.30	0.32	0.27	0.28						
Salinity (ppt)	0.12	0.12	0.12	0.12	0.12						
ORP (mV)	140.9	147.3	148.0	145.5	144.9						

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/2021
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-34D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: clear
Air Temperature: 42° F
Total Well Depth (TWD) = 83.63 1/100 ft
Depth to Ground Water (DGW) = 14.15 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: 1.2 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 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: @ 0855
Sample Analytes: VOCs
~~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)		0.15	0.30	0.45	0.60	0.85	1.0				
TIME (Military)	0820	0825	0830	0835	0840	0845	0850				
Water Level (ft BTOC)	14.15	14.19	14.18	14.18	14.19	14.19	14.19				
pH (S.U.)	10.47	9.16	9.04	8.92	8.82	8.83	8.80				
Sp. Cond. (mS/cm)	0.204	0.150	0.153	0.154	0.155	0.159	0.159				
Water Temp. (°C)	15.9°	16.8°	16.9°	16.9°	17.0°	16.9°	16.9°				
Turbidity (NTUs)	37.74	16.91	21.52	10.65	09.73	6.55	5.98				
DO - (mg/L)	1.40	1.01	0.91	0.88	0.83	0.82	0.81				
Salinity (ppt)	0.09	0.07	0.07	0.07	0.07	0.08	0.08				
ORP (mV)	148.0	145.9	148.4	148.5	144.4	143.1	143.2				

COMMENTS/OBSERVATIONS: * pH most likely is not accurate - calibration wasn't accepted

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/21
Field Personnel: Mariah Rodwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: MW-35D
_____ Upgradient ____ Downgradient _____ Sidegradient _____ Source
Weather Conditions: clear + sunny
Air Temperature: 50° F
Total Well Depth (TWD) = 76.55 1/100 ft
Depth to Ground Water (DGW) = 12.00 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 _____ 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: 64.18 - 74.18 bgs 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: @ 0940
Sample Analytes: VOCs
~~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	0.35	0.50	0.75	0.90	1.20				
TIME (Military)	0905	0910	0915	0920	0925	0930	0935				
Water Level (ft BTOC)	12.00	12.04	12.04	12.04	12.04	12.05	12.05				
pH (S.U.)	7.29	6.71	6.36	6.07	5.90	5.88	5.87				
Sp. Cond. (mS/cm)	0.250	0.257	0.258	0.258	0.257	0.257	0.257				
Water Temp. (°C)	18.7°	19.0°	19.1°	19.1°	19.3°	19.3°	19.4°				
Turbidity (NTUs)	7.62	8.37	7.31	7.28	7.16	6.07	5.58				
DO - (mg/L)	3.04	2.45	2.42	2.36	2.27	2.29	2.33				
Salinity (ppt)	0.12	0.12	0.12	0.12	0.12	0.12	0.12				
ORP (mV)	148.2	143.5	148.6	152.6	154.5	155.7	155.5				

COMMENTS/OBSERVATIONS _____

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 10/20/2021
Field Personnel: Mariah Rockwell
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #: 60314964
Sample ID*: ~~MW-33D~~ MW-36D
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source
Weather Conditions: clear + Sunny
Air Temperature: 60° F
Total Well Depth (TWD) = 65.82 1/100 ft
Depth to Ground Water (DGW) = 2.67 ~~76.35~~ ~~65.82~~ 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 ✓ 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 ✓ NO ___
Yield: LOW ___ MODERATE X HIGH ___
Comments/Observations
Sample Time: @1110
Sample Analytes: VOCs
~~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)		0.10	0.20	0.35	0.50	0.75	1.0				
TIME (Military)	1035	1040	1045	1050	1055	1100	1105				
Water Level (ft BTOC)	2.67	2.70	2.70	2.70	2.70	2.70	2.70				
pH (S.U.)	5.61	5.39	5.25	5.24	5.17	5.17	5.18				
Sp. Cond. (mS/cm)	0.302	0.308	0.310	0.311	0.312	0.311	0.312				
Water Temp. (°C)	18.9°	19.0°	19.1°	19.2°	19.2°	19.2°	19.4°				
Turbidity (NTUs)	13.62	12.38	11.26	11.52	10.70	10.26	10.31				
DO - (mg/L)	0.51	0.33	0.32	0.30	0.36	0.38	0.39				
Salinity (ppt)	0.14	0.15	0.15	0.15	0.15	0.15	0.15				
ORP (mV)	-64.5	-64.8	-62.8	-62.7	-67.9	-68.3	-68.8				

COMMENTS/OBSERVATIONS

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): Oct 18, 2021
Field Personnel: Randy Morgan
Site Name: UTC Delavan Spray Technologies Site
AECOM Job #:
Sample ID*: MW-37
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source
Weather Conditions: mostly Sunny
Air Temperature: 70s °F
Total Well Depth (TWD) = 21.8 1/100 ft
Depth to Ground Water (DGW) = 12.73 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 9.07 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.041 = 0.37 gal
3 Casing Volumes = 1.15 gal = Standard Evacuation Volume
Method of Sample Evacuation: Purge with Peristaltic Pump
Method of Sample Collection: Peristaltic Pump Reverse Flow for VOC'S
Total Volume of Water Removed: 1.20 gal

Casing Diameter: 1.0 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 X
Protective Post/Abutment: YES ____ NO X
Well Integrity Satisfactory: YES X NO ____
Yield: LOW X MODERATE ____ HIGH ____
Comments/Observations
Sample Time: 1715
Sample Analytes: VOC's

* - 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	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20		
VOLUME PURGED (gallons)											
TIME (Military)	1633	1638	1643	1648	1653	1658	1703	1708	1713		
Water Level (ft BTOC)	13.35	13.82	14.61	15.18	15.75	16.28	16.78	17.34	17.78		
pH (S.U.)	4.18	4.07	4.14	4.15	4.08	4.08	4.10	4.12	4.11		
Sp. Cond. (mS/cm)	0.062	0.062	0.058	0.054	0.062	0.064	0.064	0.062	0.062		
Water Temp. (°C)	21.2	21.2	21.3	21.3	21.3	21.3	21.2	21.2	21.2		
Turbidity (NTUs)	2.53	0.63	0.00	0.18	1.10	0.04	0.56	1.28	0.18		
DO - (mg/L)	3.84	4.30	4.24	3.95	4.06	4.04	4.08	4.10	4.12		
Salinity (ppt)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
ORP (mV)	301.8	307.3	311.4	314.5	325.3	327.3	330.8	333.2	335.4		

COMMENTS/OBSERVATIONS: NEEDS 3/4 SOCKET TO OPEN

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day): 10/20/2021

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: clear + sunny

Air Temperature (°C): 65°

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)	1205	
pH (S.U.)	6.28	
ORP (mV)	116.0	
Specific Conductivity (mS/cm)	0.189	
Water temperature (°C)	15.3°	
Dissolved Oxygen (mg/L)	4.51	
Turbidity (NTU)	0.26	
Salinity (PPT)	0.09	
Ferrous Iron	—	

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

Comments/Observations:

sample time @ 1205

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day) 10/20/2021

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 Clear + Sunny

Air Temperature (°C) 75°

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.)	6.68	
ORP (mV)	256.0	
Specific Conductivity (mS/cm)	0.169	
Water temperature (°C)	14.8°	
Dissolved Oxygen (mg/L)	4.64	
Turbidity (NTU)	0.99	
Salinity (PPT)	0.08	
Ferrous Iron	—	

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

Comments/Observations:

sample time @ 1300

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day) 10/20/2021

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 clear + sunny

Air Temperature (°C) 78°

	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)	1310	_____
pH (S.U.)	6.87	_____
ORP (mV)	101.3	_____
Specific Conductivity (mS/cm)	0.235	_____
Water temperature (°C)	16.4	_____
Dissolved Oxygen (mg/L)	5.36	_____
Turbidity (NTU)	26.01	_____
Salinity (PPT)	0.11	_____
Ferrous Iron	—	_____

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

Comments/Observations:

sample time @ 1310

FIELD DATA LOG FOR SURFACE WATER/SEDIMENT SAMPLING

Date (yr/mo/day) 10/20/2021

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 Clear + Sunny

Air Temperature (°C) 68°

	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)	1220	
pH (S.U.)	6.32	
ORP (mV)	144.2	
Specific Conductivity (mS/cm)	0.066	
Water temperature (°C)	16.6°	
Dissolved Oxygen (mg/L)	1.20	
Turbidity (NTU)	57.92	
Salinity (PPT)	0.03	
Ferrous Iron	—	

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

Comments/Observations:

sample time @ 1220

FA89990

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
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 Rockwell

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	18-Oct-2021			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	1
Trip Blank # 2	18-Oct-2021			X			X			7 DAY HOLDING TIME	2
MW-18	18-Oct-2021	1540			X		X				3
MW-20	18-Oct-2021	1615			X		X				4
MW-9	18-Oct-2021	1620			X		X				5
MW-9-MS	18-Oct-2021	1620			X		X				4
MW-9-MSD	18-Oct-2021	1620			X		X				5
MW-10	18-Oct-2021	1700			X		X				6
MW-37	18-Oct-2021	1715			X		X				7
MW-101	18-Oct-2021	1735			X		X				8
MW-19	18-Oct-2021	1805			X		X				9
MW-30D	19-Oct-2021	0840			X		X				10
MW-30D-MS	19-Oct-2021	0840			X		X				10
MW-30D-MSD	19-Oct-2021	0840			X		X				10
MW-31D	19-Oct-2021	0930			X		X				11

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	10-19-2021	1445	Fed EX		
2.					10/20/21	1000
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
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 4.4-1R1

INITIAL ASSESSMENT

LABEL VERIFICATION

FA899900

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
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 Rockwell

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-12D	19-Oct-2021	1010			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	12
MW-26D	19-Oct-2021	1015			X		X			7 DAY HOLDING TIME	13
MW-25D	19-Oct-2021	1045			X		X				14
MW-28	19-Oct-2021	1103			X		X				15
MW-32DR	19-Oct-2021	1120			X		X				16
MW-32DR-a	19-Oct-2021	1120			X		X				17
MW-27	19-Oct-2021	1138			X		X				18
MW-22D	19-Oct-2021	1210			X		X				19
MW-22D	19-Oct-2021	1210			X		X				20
MW-13D	19-Oct-2021	1238			X		X				21
MW-3D	19-Oct-2021	1348			X		X				22
MW-14D	19-Oct-2021	1320			X		X				23
MW-14D-a	19-Oct-2021	1320			X		X				24
MW-14	19-Oct-2021	1410			X		X				25
MW-3	19-Oct-2021	1427			X		X				26

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-19-21	1745	Fed Ex		
2.				Stephanie Hall	10/20/21	1020
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
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

INITIAL ASSESSMENT

3.24R4

LABEL VERIFICATION

FA90040

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
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 Rockwell

Project Manager: Leslee Alexander

	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
1	Trip Blank #3	19-Oct-2021			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
2	Trip Blank #4	19-Oct-2021			X			X			7 DAY HOLDING TIME	
3	MW-24	19-Oct-2021	1620			X		X				
4	MW-24-a	19-Oct-2021	1620			X		X				
5	MW-1	19-Oct-2021	1518			X		X				
6	MW-5	19-Oct-2021	1510			X		X				
7	MW-8	19-Oct-2021	1610			X		X				
8	MW-21D	20-Oct-2021	0857			X		X				
9	MW-34D	20-Oct-2021	0855			X		X				
10	MW-2	20-Oct-2021	0935			X		X				
11	MW-35D	20-Oct-2021	0940			X		X				
12	MW-21	20-Oct-2021	1015			X		X				
13	MW-33D	20-Oct-2021	1020			X		X				
14	MW-7	20-Oct-2021	1055			X		X				
15	MW-36D	20-Oct-2021	1110			X		X				

Sample Analysis Requested

Quality Assurance Samples

INITIAL ASSESSMENT

LABEL VERIFICATION

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-2021	1830	JJ	10/21/21	10:15
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
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

1.2 IR4

FA90040

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
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 Rockwell

Project Manager: Leslee Alexander

	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
16	Aqueous IDW	20-Oct-2021	1140		X		Groundwater	X	X	X	ALL VOC'S ARE UNPRESERVED	
17	SW-01-LC	20-Oct-2021	1205		X		Surface Water	X			7 DAY HOLDING TIME	
18	SW-04-TLC	20-Oct-2021	1220		X		↓	X				
19	SW-02-LC	20-Oct-2021	1300		X		↓	X				
20	SW-03-HMB	20-Oct-2021	1310		X		↓	X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-2021	1830	JJ	10/21/21	10:45
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped: XXXX
Method of Shipment: Fed Ex Airbill #: ____
Analytical Lab: Accutest Location: Orlando FLA
Lab Recipient: ____ Date: ____ Time: ____

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

10-18-21 64° Sunny M. Rockwell

0700 Leave Greenville office.
1030 Arrive on site. Meet w/ Randy. Get visitor passes at facility. Brief H/S meeting.
1105 Marian splits off to begin water levels.
1230 Marian waits for Randy @ front parking lot to continue gauging water levels together.
1245 Randy meets @ front — cont. site water levels.
1400 site wide water levels complete.
1410 Randy gives Marian equipment + paperwork. Marian heads off site for lunch + bathroom.
1440 No ice @ Piggly Wiggly or closest gas station. Marian heads to MW-18 and Randy will cont. searching for ice.
1446 Arrive @ MW-18 and begin setup to continue sampling @ MW-9, MW-10, MW-10D.
1740 Dump purge water @ treatment bldg on site.
1750 Offsite. Left badge w/ Randy.

M Rockwell 10/18/21

10/19/2021 40° F Clear + Sunny M. Rockwell

0650 Leave hotel + grab breakfast + arrive on site
0730 H/S meeting w/ Randy.
0740 Check in @ Facility + visitor passes
0750 Calibrate YSI @ MW-30D
0805 Begin purging MW-30D
0840 Sampled MW-30D + MS/MSD (both) Had trouble closing well lid - only one bolted
0850 Begin purging @ MW-31D
0930 Sampled MW-31D - Mob to other Bamberg property to cont. GW sampling
0940 Begin purging MW-26D
1015 Sampled MW-26D
1020 Begin purging @ MW-25D
1045 Sampled MW-25D
1055 Begin purging MW-32DR
1120 Sampled MW-32DR + MW-32DR-a
1135 Begin purging @ MW-22D
1210 Sampled MW-22D + MW-22D-a
1215 Dump purge water @ treatment bldg.
1220 Take bathroom / lunch break.
1250 Begin purging @ MW-14D
1320 Sample MW-14D + MW-14D-a
1330 Begin Purging MW-14.
1410 Sampled MW-14 - Mob to Randy to drop off samples

57

10/19/2021 77°F M. Rockwell

1435 Begin purging MW-5 * Moved on site, had to move from MW-24 b/c they were mowing that area
1510 Sampled MW-5
1530 Begin purging @ MW-24
* low pH on MW-5, MW-24, + MW-14. Cleaned YSI sensor w/ DI water, pH read 2.20 w/ DI water. Calibrated this am w/ no issue.
1620 Sampled MW-24 + MW-24-a
1621 Go dump purge water.
1630 Returned facility visitor pass.
1635 Off site.
1705 Arrive @ hotel.

M. Rockwell 10/19/21

10/20/2021 41°F M. Rockwell

0650 Check out @ hotel.
0720 Arrive on site. All's greeting w/ R. Morgan.
0730 Check in @ facility - visitor pass.
0745 Begin calibrating YSI @ MW-34D
* YSI pH won't accept calibrations
0820 Begin purging MW-34D
* pH is very high - not accurate
0855 Sample MW-34D - mob to 35D
0905 Begin purging @ MW-35D
0910 pH seems to be coming down w/in normal range - not sure why
0940 Sampled MW-35D - Pick up more bottles
* pH still slowly dropping
0945 Pick up more bottles from Randy
0955 Begin purging @ MW-33D
1020 Sampled MW-33D - mob to 36D
1035 Begin purging @ MW-36D
1110 Sampled MW-36D - mob to site to meet w/ Randy to begin SW sampling.
1120 Dump purge water.
1130 sample IDW
1135 Return visitor pass.
1140 Close MW-23D.
1155 Begin SW sampling.

05

56

10/20/2021 78°F M. Rockwell

1320 SW sampling complete.
1321 Marcus takes lunch break.
1345 Randy returns - prep for residential well sampling
1630 Completed Residential sampling.
*343-LCR did not have a pump - no sample
* Hotel wouldn't cancel tonight + called trip actions, they couldn't cancel either.
1640 Off site - drive to Greenville office.
1926 Arrive @ Greenville office. unload truck.
1945 Leave office.

M. Rockwell 10/20/21

4-14-2021 UTC Delaware

0655 leave for UTC Delaware
0730 arrive on site - calibrate YSI pro plus water quality meter S/N 17L103732
0740 sign in & get badges
0758 at MW-210 begin to micro purge
0835 sampled MW-210
0840 at MW-21 begin to micro purge
0908 Sampled MW-21
0920 empty all purge water into 55 gal steel drum onsite only (1) drum onsite
0925 sampled FB-1
0945 prepare to collect surface water samples
1000 sampled SW-01-LC
1010 sampled SW-04-TLC
1025 sampled SW-02-LC
1035 sampled SW-03-HMB
(see page 4-5 exact locations)
1045 on site UTC Manual to return equipment / Randy to pack & ship samples to Charleston today.
1100 off site end of event.

14/8/21 UTC Delaware (15)

4:45 at AECOM load out Hazwaste paperwork
0500 pick up equipment
0520 leave for UTC Delaware
0730 in Orangeburg reserve room at Fairfield inn
0800 onsite at Delaware to begin clearing around wells and open wells to equilibrate
1030 Manual arrive on site H & S briefing, sign in at Delaware and received badges
1100 Manual begins water levels, Randy finishes clearing around wells
1215 Randy & Manual work together on water levels.
1430 complete water levels except for MW-15 cluster, Calibrate YSI Pro Plus * MW-19 was open, tubing removed, expansion cap off, not bolted down
1445 off site to purchase ice, No gas station or grocery store has ice found some at Dollar General
1530 collect water levels at MW-15 cluster
1548 Randy at MW-20 begin to micro purge
1615 Sampled MW-20

10/18/20 UTC Delavan

1633 at MW-37 begin to micro purge
1715 Sampled MW-37
1738 at MW-19 begin to micro purge
1805 Sampled MW-19
1820 empty purge water into 55 gal steel drum in Drum storage area
1830 notify Leslee SVE work had been completed on site and told Her about MW-19 not being bailed down and tubing removed and expansion cap off.
1840 off site to motel in Orangeburg
Samples are stored on ice in secure location until 10-19-2021
Randy has Trip Blank # 1
Mandy has Trip Blank # 2
1910 at motel end of day.

* Both cables/gate at Bamberg property were opened when we arrived. We left them opened.

Randy Mayer 10-18-2021

UTC Delavan 10/19/21

0700 leave for UTC Delavan
0725 stop to see if gas station has ice yet NO ice in the area still
0730 arrive on site - calibrate YSI Pro Plus S/N 3732, H & S Greeting sign in at the UTC Delavan office recieve badges.
Randy starts in junk yard will need to carry in
0810 at MW-29 begin to micro purge
0835 reliazed we dont need to sample this well this event - NO sample collected
0903 at MW-120 begin to micro purge start out purging w/ reading every 10 minutes due to high Ph & conductivity when stabilizes will take reading every 5 minutes
1010 Sampled MW-120
1025 at MW-28 begin to micro purge
1103 Sampled MW-28
1110 at MW-27 begin to micro purge
1138 Sampled MW-27
1200 at MW-130 begin to micro purge
1233 Sampled MW-130
1243 empty purge water
1250 off site to look for ice to pack samples for Fed EX.

10-19-2021 UTC Delavan

1500 Purchased ice for shipping samples
1510 back on site at MW-3 Cluster
1315 at MW-3D begin to micro purge
1348 sampled MW-3D - pink tubing
1400 at MW-3 begin to micro purge
1427 sampled MW-3 complete packing sample coolers for Fed EX
1458 at MW-1 begin to micro purge
1518 sampled MW-1
1515 Fed EX arrives, recieves samples
1538 at MW-8 begin to micro purge
1610 sampled MW-8
1623 empty purge water in 55 gal drum in drum Storage area
1630 off site for the day to motel. Will finish wells on Wednesday and private well also, and surface water samples.

Randy Morgan 10-19-2021

UTC Delavan

10-20-2021

0700 leave motel for UTC Delavan
0730 arrive on site H+S briefing, sign in at UTC Delavan office, get badges.
0745 calibrate YSI for Plus S/N 3732
0810 at MW-21D begin to micro purge
0857 Sampled MW-21D
0908 at MW-2 begin to micro purge
0935 sampled MW-2
0948 at MW-21 begin to micro purge
1015 Sampled MW-21
1026 at MW-17 begin to micro purge
1055 sampled MW-17
1100 off site for additional ice for sample coolers
1130 empty purge water into 55 gal steel drum in drum storage area at UTC Moriah also emptied purge water
1140 sampled IDW - Aqueous - FPW secure drum - this event only (1) Drum
1200 turn in badges
1205 begin collecting surface water samples
1205 at SW-01-LC collect sample
1220 at SW-04-TLC collect sample
1300 at SW-02-LC Collect Sample
1310 at SW-03 HMB collect sample

(14) 10-20-21 UIC Delaware

1330 Prepare to sample Residential Systems Pre filters + Post filters
1410 sampled 13LCT-Pre
1415 Sampled 13LCT-Post
1425 sampled 743LCR-Pre
1430 Sampled 743LCR-Post
1440 Sampled 715LCR-Pre
1445 Sampled 715LCR-Post
1450 Sampled 689LCR-Pre
1455 Sampled 689LCR-Post
1505 Sampled 684LCR-Pre
1510 sampled 684LCR-Post
1525 Sampled 546LCR-A-Pre
1530 Sampled 546LCR-A-Post
1535 Sampled 546LCR-B-Pre
1540 Sampled 546LCR-B-Post
1555 Sampled 448LCR-Pre
1600 Sampled 448LCR-Post
1605 Sampled 410LCR-Pre
1610 Sampled 410LCR-Post
1620 at 343LCR - Mr Tomson said the well pump is out of service - NO Sample collected - Filters were changed out.
1630 at Enmarket to get additional ice to pack samples to be delivered to

UIC Delaware 10-20-21 (14)

Pace/Shealy Labs in West Columbia and to ship samples to Pace test Orlando by Fed Ex in West Columbia
1700 leave for West Columbia SC
1820 relinquish samples to Pace/Shealy Labs
1835 relinquish samples to Fed Ex Ground
2000 returned Equipment
2030 at Azcon office end of event.

Randy Mayer 10-20-2021

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

60656814/TASK 1A

SGS Job Number: FA89990

Sampling Dates: 10/18/21 - 10/19/21

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: 90

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

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FA89990

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60656814/TASK 1A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA89990-1	10/18/21	00:00	RMMR	10/20/21	AQ	Trip Blank Water	TRIP BLANK 1
FA89990-2	10/18/21	00:00	RMMR	10/20/21	AQ	Trip Blank Water	TRIP BLANK 2
FA89990-3	10/18/21	15:40	RMMR	10/20/21	AQ	Ground Water	MW-18
FA89990-4	10/18/21	16:15	RMMR	10/20/21	AQ	Ground Water	MW-20
FA89990-5	10/18/21	16:20	RMMR	10/20/21	AQ	Ground Water	MW-9
FA89990-5D	10/18/21	16:20	RMMR	10/20/21	AQ	Water Dup/MSD	MW-9
FA89990-5S	10/18/21	16:20	RMMR	10/20/21	AQ	Water Matrix Spike	MW-9
FA89990-6	10/18/21	17:00	RMMR	10/20/21	AQ	Ground Water	MW-10
FA89990-7	10/18/21	17:15	RMMR	10/20/21	AQ	Ground Water	MW-37
FA89990-8	10/18/21	17:35	RMMR	10/20/21	AQ	Ground Water	MW-10D
FA89990-9	10/18/21	18:05	RMMR	10/20/21	AQ	Ground Water	MW-19
FA89990-10	10/19/21	08:40	RMMR	10/20/21	AQ	Ground Water	MW-30D

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: FA89990

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60656814/TASK 1A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA89990-10D	10/19/21	08:40	RMMR	10/20/21	AQ	Water Dup/MSD	MW-30D
FA89990-10S	10/19/21	08:40	RMMR	10/20/21	AQ	Water Matrix Spike	MW-30D
FA89990-11	10/19/21	09:30	RMMR	10/20/21	AQ	Ground Water	MW-31D
FA89990-12	10/19/21	10:10	RMMR	10/20/21	AQ	Ground Water	MW-12D
FA89990-13	10/19/21	10:15	RMMR	10/20/21	AQ	Ground Water	MW-26D
FA89990-14	10/19/21	10:45	RMMR	10/20/21	AQ	Ground Water	MW-25D
FA89990-15	10/19/21	11:03	RMMR	10/20/21	AQ	Ground Water	MW-28
FA89990-16	10/19/21	11:20	RMMR	10/20/21	AQ	Ground Water	MW-32DR
FA89990-17	10/19/21	11:20	RMMR	10/20/21	AQ	Ground Water	MW-32DR-A
FA89990-18	10/19/21	11:39	RMMR	10/20/21	AQ	Ground Water	MW-27
FA89990-19	10/19/21	12:10	RMMR	10/20/21	AQ	Ground Water	MW-22D
FA89990-20	10/19/21	12:10	RMMR	10/20/21	AQ	Ground Water	MW-22D-A
FA89990-21	10/19/21	12:38	RMMR	10/20/21	AQ	Ground Water	MW-13D

Sample Summary
(continued)

Raytheon Technologies

Job No: FA89990

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60656814/TASK 1A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA89990-22	10/19/21	13:48	RMMR	10/20/21	AQ	Ground Water	MW-3D
FA89990-23	10/19/21	13:20	RMMR	10/20/21	AQ	Ground Water	MW-14D
FA89990-24	10/19/21	13:20	RMMR	10/20/21	AQ	Ground Water	MW-14D-A
FA89990-25	10/19/21	14:10	RMMR	10/20/21	AQ	Ground Water	MW-14
FA89990-26	10/19/21	14:27	RMMR	10/20/21	AQ	Ground Water	MW-3

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FA89990

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date** 11/11/2021 10:45:37

On 10/20/2021, 24 Sample(s), 2 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of FA89990 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A1618

Sample(s) FA89927-3MS, FA89927-3MSD were used as the QC samples indicated.

FA89990-6: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Matrix: AQ **Batch ID:** V2P3322

Sample(s) FA89990-5MS, FA89990-5MSD were used as the QC samples indicated.

FA89990-1: Sample was not preserved to a pH < 2.

FA89990-2: Sample was not preserved to a pH < 2.

FA89990-3: Sample was not preserved to a pH < 2.

FA89990-4: Sample was not preserved to a pH < 2.

FA89990-5: Sample was not preserved to a pH < 2.

FA89990-6: Sample was not preserved to a pH < 2.

FA89990-7: Sample was not preserved to a pH < 2.

FA89990-8: Sample was not preserved to a pH < 2.

FA89990-9: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VC6115

Sample(s) FA89990-10MS, FA89990-10MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethane, cis-1,2-Dichloroethylene, Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

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

FA89990-10: Sample was not preserved to a pH < 2.

FA89990-11: Sample was not preserved to a pH < 2.

FA89990-13: Sample was not preserved to a pH < 2.

FA89990-14: Sample was not preserved to a pH < 2.

FA89990-15: Sample was not preserved to a pH < 2.

FA89990-16: Sample was not preserved to a pH < 2.

FA89990-17: Sample was not preserved to a pH < 2.

FA89990-18: Sample was not preserved to a pH < 2.

FA89990-19: Sample was not preserved to a pH < 2.

FA89990-20: Sample was not preserved to a pH < 2.

FA89990-21: Sample was not preserved to a pH < 2.

FA89990-22: Sample was not preserved to a pH < 2.

FA89990-23: Sample was not preserved to a pH < 2.

FA89990-24: Sample was not preserved to a pH < 2.

FA89990-25: Sample was not preserved to a pH < 2.

FA89990-26: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VC6116

Sample(s) FA89990-12MS, FA89990-12MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Methyl Bromide, trans-1,3-Dichloropropene 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 interference.

RPD(s) for MSD for Methyl Bromide, trans-1,3-Dichloropropene are outside control limits for sample FA89990-12MSD. Probable cause is due to sample non-homogeneity.

For Sample(s) FA89990-12 are associated with an CCV that has a recovery for Methyl Bromide outside low control limit.

FA89990-12: Sample was not preserved to a pH < 2.

FA89990-12 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA89990-12 for Methyl Bromide: Associated CCV outside of control limits low.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: FA89990
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/18/21 thru 10/19/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA89990-1	**TRIP BLANK 1**					
Toluene [a]		1.8	1.0	0.30	ug/l	SW846 8260D
FA89990-2	**TRIP BLANK 2**					
Toluene [a]		2.7	1.0	0.30	ug/l	SW846 8260D
FA89990-3	**MW-18**					
Toluene [a]		4.4	1.0	0.30	ug/l	SW846 8260D
FA89990-4	**MW-20**					
cis-1,2-Dichloroethylene [a]		2.1 J	2.5	0.69	ug/l	SW846 8260D
Tetrachloroethylene [a]		187	2.5	0.54	ug/l	SW846 8260D
Trichloroethylene [a]		3.6	2.5	0.86	ug/l	SW846 8260D
FA89990-5	**MW-9**					
cis-1,2-Dichloroethylene [a]		8.0	2.0	0.55	ug/l	SW846 8260D
Tetrachloroethylene [a]		123	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		36.9	2.0	0.69	ug/l	SW846 8260D
FA89990-6	**MW-10**					
1,1-Dichloroethylene [a]		30.1	2.0	0.64	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [b]		396	10	2.8	ug/l	SW846 8260D
trans-1,2-Dichloroethylene [a]		0.48 J	2.0	0.44	ug/l	SW846 8260D
Tetrachloroethylene [a]		90.8	2.0	0.43	ug/l	SW846 8260D
Toluene [a]		0.76 J	2.0	0.60	ug/l	SW846 8260D
Trichloroethylene [a]		94.2	2.0	0.69	ug/l	SW846 8260D
FA89990-7	**MW-37**					
1,1-Dichloroethylene [a]		93.5 J	250	81	ug/l	SW846 8260D
Ethylbenzene [a]		260	250	89	ug/l	SW846 8260D
Tetrachloroethylene [a]		16200	250	54	ug/l	SW846 8260D
Toluene [a]		98.7 J	250	75	ug/l	SW846 8260D
Xylene (total) [a]		967	750	180	ug/l	SW846 8260D
FA89990-8	**MW-10D**					
Toluene [a]		0.82 J	1.0	0.30	ug/l	SW846 8260D

Summary of Hits

Job Number: FA89990
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/18/21 thru 10/19/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA89990-9	**MW-19**					
Tetrachloroethylene [a]		47500	1000	220	ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		366 J	1000	250	ug/l	SW846 8260D
FA89990-10	**MW-30D**					
1,1-Dichloroethylene [a]		1.7	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		1.2	1.0	0.28	ug/l	SW846 8260D
Methyl Bromide [a]		2.5 J	5.0	2.0	ug/l	SW846 8260D
Tetrachloroethylene [a]		85.9	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.42 J	1.0	0.30	ug/l	SW846 8260D
FA89990-11	**MW-31D**					
1,1-Dichloroethylene [a]		3.4	2.0	0.64	ug/l	SW846 8260D
Tetrachloroethylene [a]		137	2.0	0.43	ug/l	SW846 8260D
Toluene [a]		1.1 J	2.0	0.60	ug/l	SW846 8260D
FA89990-12	**MW-12D**					
1,1-Dichloroethylene [a]		0.41 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		31.3	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.49 J	1.0	0.30	ug/l	SW846 8260D
FA89990-13	**MW-26D**					
1,1-Dichloroethylene [a]		0.99 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		1.0	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		52.4	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.80 J	1.0	0.30	ug/l	SW846 8260D
Trichloroethylene [a]		1.1	1.0	0.35	ug/l	SW846 8260D
FA89990-14	**MW-25D**					
1,1-Dichloroethylene [a]		2.5	2.0	0.64	ug/l	SW846 8260D
Tetrachloroethylene [a]		115	2.0	0.43	ug/l	SW846 8260D
FA89990-15	**MW-28**					
Toluene [a]		1.2	1.0	0.30	ug/l	SW846 8260D
FA89990-16	**MW-32DR**					
Tetrachloroethylene [a]		14.3	1.0	0.22	ug/l	SW846 8260D

Summary of Hits

Job Number: FA89990
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/18/21 thru 10/19/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene [a]		0.92 J	1.0	0.30	ug/l	SW846 8260D
FA89990-17	**MW-32DR-A**					
Tetrachloroethylene [a]		13.6	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		1.2	1.0	0.30	ug/l	SW846 8260D
FA89990-18	**MW-27**					
Toluene [a]		1.5	1.0	0.30	ug/l	SW846 8260D
FA89990-19	**MW-22D**					
1,1-Dichloroethylene [a]		1.4	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		89.9	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.49 J	1.0	0.30	ug/l	SW846 8260D
FA89990-20	**MW-22D-A**					
1,1-Dichloroethylene [a]		1.5	1.0	0.32	ug/l	SW846 8260D
Methyl Bromide [a]		2.0 J	5.0	2.0	ug/l	SW846 8260D
Tetrachloroethylene [a]		90.7	1.0	0.22	ug/l	SW846 8260D
FA89990-21	**MW-13D**					
1,1-Dichloroethylene [a]		2.4	2.0	0.64	ug/l	SW846 8260D
Tetrachloroethylene [a]		134	2.0	0.43	ug/l	SW846 8260D
Toluene [a]		2.1	2.0	0.60	ug/l	SW846 8260D
FA89990-22	**MW-3D**					
1,1-Dichloroethylene [a]		5.3	5.0	1.6	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		8.2	5.0	1.4	ug/l	SW846 8260D
Tetrachloroethylene [a]		235	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		5.7	5.0	1.7	ug/l	SW846 8260D
FA89990-23	**MW-14D**					
1,1-Dichloroethylene [a]		0.93 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		47.4	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.60 J	1.0	0.30	ug/l	SW846 8260D
FA89990-24	**MW-14D-A**					
1,1-Dichloroethylene [a]		0.95 J	1.0	0.32	ug/l	SW846 8260D

Summary of Hits

Job Number: FA89990
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/18/21 thru 10/19/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tetrachloroethylene [a]		45.7	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.92 J	1.0	0.30	ug/l	SW846 8260D
Trichloroethylene [a]		0.63 J	1.0	0.35	ug/l	SW846 8260D
FA89990-25	**MW-14**					
Toluene [a]		1.4	1.0	0.30	ug/l	SW846 8260D
FA89990-26	**MW-3**					
cis-1,2-Dichloroethylene [a]		3.1	2.0	0.55	ug/l	SW846 8260D
Tetrachloroethylene [a]		117	2.0	0.43	ug/l	SW846 8260D
Toluene [a]		2.0	2.0	0.60	ug/l	SW846 8260D
Trichloroethylene [a]		2.8	2.0	0.69	ug/l	SW846 8260D

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2; reported results are considered minimum values.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK 1		
Lab Sample ID:	FA89990-1	**Date Sampled:**	10/18/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/20/21
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]	2P82405.D	1	10/22/21 13:09	CV	n/a	n/a	V2P3322
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	5.0	2.0	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	1.8	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:	FA89990-1	**Date Sampled:**	10/18/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/20/21
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	94%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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:	TRIP BLANK 2		
Lab Sample ID:	FA89990-2	**Date Sampled:**	10/18/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/20/21
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]	2P82407.D	1	10/22/21 13:41	CV	n/a	n/a	V2P3322
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	5.0	2.0	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	2.7	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:	FA89990-2	**Date Sampled:**	10/18/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/20/21
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	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		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-18		
Lab Sample ID:	FA89990-3	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82413.D	1	10/22/21 15:17	CV	n/a	n/a	V2P3322
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	5.0	2.0	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	4.4	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:	FA89990-3	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	94%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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-20		
Lab Sample ID:	FA89990-4	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82415.D	2.5	10/22/21 15:49	CV	n/a	n/a	V2P3322
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	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	2.1	2.5	0.69	ug/l	J
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	13	5.0	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	187	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	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:	FA89990-4	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	96%		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-9		
Lab Sample ID:	FA89990-5	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82417.D	2	10/22/21 16:21	CV	n/a	n/a	V2P3322
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	ND	2.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	8.0	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	10	4.0	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	123	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	36.9	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-9		
Lab Sample ID:	FA89990-5	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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-10		
Lab Sample ID:	FA89990-6	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82419.D	2	10/22/21 16:54	CV	n/a	n/a	V2P3322
Run #2 [b]	1A39125.D	10	10/26/21 19:50	CF	n/a	n/a	V1A1618

	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	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	30.1	2.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	396 [c]	10	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.48	2.0	0.44	ug/l	J
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	10	4.0	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	90.8	2.0	0.43	ug/l	
108-88-3	Toluene	0.76	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	94.2	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:	FA89990-6	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	97%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	79-125%
2037-26-5	Toluene-D8	95%	105%	85-112%
460-00-4	4-Bromofluorobenzene	95%	96%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(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-37		
Lab Sample ID:	FA89990-7	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82421.D	250	10/22/21 17:26	CV	n/a	n/a	V2P3322
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	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	93.5	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	260	250	89	ug/l	
591-78-6	2-Hexanone	ND	2500	500	ug/l	
74-83-9	Methyl Bromide	ND	1300	500	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	16200	250	54	ug/l	
108-88-3	Toluene	98.7	250	75	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	250	62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	120	ug/l	
79-01-6	Trichloroethylene	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:	FA89990-7	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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)	967	750	180	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	101%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	94%		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-10D		
Lab Sample ID:	FA89990-8	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82423.D	1	10/22/21 17:58	CV	n/a	n/a	V2P3322
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	5.0	2.0	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	0.82	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-10D		
Lab Sample ID:	FA89990-8	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	99%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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-19		
Lab Sample ID:	FA89990-9	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	2P82425.D	1000	10/22/21 18:30	CV	n/a	n/a	V2P3322
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	25000	10000	ug/l	
71-43-2	Benzene	ND	1000	310	ug/l	
75-27-4	Bromodichloromethane	ND	1000	240	ug/l	
75-25-2	Bromoform	ND	1000	410	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2000	ug/l	
75-15-0	Carbon Disulfide	ND	2000	530	ug/l	
56-23-5	Carbon Tetrachloride	ND	1000	360	ug/l	
108-90-7	Chlorobenzene	ND	1000	200	ug/l	
75-00-3	Chloroethane	ND	2000	670	ug/l	
67-66-3	Chloroform	ND	1000	300	ug/l	
124-48-1	Dibromochloromethane	ND	1000	280	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	340	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	310	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1000	320	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1000	280	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1000	220	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	430	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	290	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	210	ug/l	
100-41-4	Ethylbenzene	ND	1000	360	ug/l	
591-78-6	2-Hexanone	ND	10000	2000	ug/l	
74-83-9	Methyl Bromide	ND	5000	2000	ug/l	
74-87-3	Methyl Chloride	ND	2000	500	ug/l	
75-09-2	Methylene Chloride	ND	5000	2000	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	1000	ug/l	
100-42-5	Styrene	ND	1000	220	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	300	ug/l	
127-18-4	Tetrachloroethylene	47500	1000	220	ug/l	
108-88-3	Toluene	ND	1000	300	ug/l	
71-55-6	1,1,1-Trichloroethane	366	1000	250	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1000	470	ug/l	
79-01-6	Trichloroethylene	ND	1000	350	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:	FA89990-9	**Date Sampled:**	10/18/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	1000	410	ug/l	
1330-20-7	Xylene (total)	ND	3000	720	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	102%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	94%		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-30D		
Lab Sample ID:	FA89990-10	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151277.D	1	10/25/21 14:30	LV	n/a	n/a	VC6115
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	1.7	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	2.5	5.0	2.0	ug/l	J
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	85.9	1.0	0.22	ug/l	
108-88-3	Toluene	0.42	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-30D		
Lab Sample ID:	FA89990-10	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	95%		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-31D		
Lab Sample ID:	FA89990-11	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151288.D	2	10/25/21 19:09	LV	n/a	n/a	VC6115
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	3.4	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	10	4.0	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	137	2.0	0.43	ug/l	
108-88-3	Toluene	1.1	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	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-31D		
Lab Sample ID:	FA89990-11	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	99%		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-12D		
Lab Sample ID:	FA89990-12	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151315.D	1	10/26/21 17:41	LV	n/a	n/a	VC6116
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	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 [b]	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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	31.3	1.0	0.22	ug/l	
108-88-3	Toluene	0.49	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-12D		
Lab Sample ID:	FA89990-12	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	96%		85-112%
460-00-4	4-Bromofluorobenzene	103%		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-26D		
Lab Sample ID:	FA89990-13	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151278.D	1	10/25/21 14:55	LV	n/a	n/a	VC6115
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	0.99	1.0	0.32	ug/l	J
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	5.0	2.0	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	52.4	1.0	0.22	ug/l	
108-88-3	Toluene	0.80	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	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:	FA89990-13	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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-25D		
Lab Sample ID:	FA89990-14	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151290.D	2	10/25/21 19:59	LV	n/a	n/a	VC6115
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	2.5	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	10	4.0	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	115	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	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-25D		
Lab Sample ID:	FA89990-14	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	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-28		
Lab Sample ID:	FA89990-15	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151279.D	1	10/25/21 15:20	LV	n/a	n/a	VC6115
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	5.0	2.0	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	1.2	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:	FA89990-15	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	98%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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:	FA89990-16	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151280.D	1	10/25/21 15:46	LV	n/a	n/a	VC6115
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	5.0	2.0	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	14.3	1.0	0.22	ug/l	
108-88-3	Toluene	0.92	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-32DR		
Lab Sample ID:	FA89990-16	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	101%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-32DR-A		
Lab Sample ID:	FA89990-17	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151281.D	1	10/25/21 16:11	LV	n/a	n/a	VC6115
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	5.0	2.0	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	13.6	1.0	0.22	ug/l	
108-88-3	Toluene	1.2	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-32DR-A		
Lab Sample ID:	FA89990-17	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-27		
Lab Sample ID:	FA89990-18	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151282.D	1	10/25/21 16:37	LV	n/a	n/a	VC6115
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	5.0	2.0	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	1.5	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:	FA89990-18	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	98%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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:	FA89990-19	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151283.D	1	10/25/21 17:03	LV	n/a	n/a	VC6115
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	1.4	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	5.0	2.0	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	89.9	1.0	0.22	ug/l	
108-88-3	Toluene	0.49	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-22D		
Lab Sample ID:	FA89990-19	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		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-22D-A		
Lab Sample ID:	FA89990-20	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151284.D	1	10/25/21 17:29	LV	n/a	n/a	VC6115
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	1.5	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	2.0	5.0	2.0	ug/l	J
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	90.7	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit
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:	FA89990-20	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-13D		
Lab Sample ID:	FA89990-21	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151291.D	2	10/25/21 20:23	LV	n/a	n/a	VC6115
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	2.4	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	10	4.0	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	134	2.0	0.43	ug/l	
108-88-3	Toluene	2.1	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	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:	FA89990-21	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	95%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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:	FA89990-22	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151292.D	5	10/25/21 20:48	LV	n/a	n/a	VC6115
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	3.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	5.3	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	8.2	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	25	10	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	235	5.0	1.1	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	5.7	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-3D		
Lab Sample ID:	FA89990-22	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	94%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

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

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:	FA89990-23	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151285.D	1	10/25/21 17:54	LV	n/a	n/a	VC6115
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	0.93	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	5.0	2.0	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	47.4	1.0	0.22	ug/l	
108-88-3	Toluene	0.60	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-14D		
Lab Sample ID:	FA89990-23	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	99%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-14D-A		
Lab Sample ID:	FA89990-24	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151286.D	1	10/25/21 18:19	LV	n/a	n/a	VC6115
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	0.95	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	5.0	2.0	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	45.7	1.0	0.22	ug/l	
108-88-3	Toluene	0.92	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	0.63	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:	FA89990-24	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	98%		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-14		
Lab Sample ID:	FA89990-25	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151287.D	1	10/25/21 18:44	LV	n/a	n/a	VC6115
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	5.0	2.0	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	1.4	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:	FA89990-25	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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:	FA89990-26	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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]	C0151293.D	2	10/25/21 21:12	LV	n/a	n/a	VC6115
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	ND	2.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.1	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	10	4.0	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	117	2.0	0.43	ug/l	
108-88-3	Toluene	2.0	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	2.8	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-3		
Lab Sample ID:	FA89990-26	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/20/21
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	96%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		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

FA89990

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
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 Rockwell

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
Trip Blank # 1	18-Oct-2021			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	1
Trip Blank # 2	18-Oct-2021			X			X			7 DAY HOLDING TIME	2
MW-18	18-Oct-2021	1540			X		X				3
MW-20	18-Oct-2021	1615			X		X				4
MW-9	18-Oct-2021	1620			X		X				5
MW-9-MS	18-Oct-2021	1620			X		X				5
MW-9-MSD	18-Oct-2021	1620			X		X				5
MW-10	18-Oct-2021	1700			X		X				6
MW-37	18-Oct-2021	1715			X		X				7
MW-101	18-Oct-2021	1735			X		X				8
MW-14	18-Oct-2021	1805			X		X				9
MW-30D	19-Oct-2021	0840			X		X				10
MW-30D-MS	19-Oct-2021	0840			X		X				10
MW-30D-MSD	19-Oct-2021	0840			X		X				10
MW-31D	19-Oct-2021	0930			X		X				11

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-19-2021	1445	Fed EX		
2.					10/20/21	1000
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
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 4.4-101

INITIAL ASSESSMENT

LABEL VERIFICATION

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

FA89990

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
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 Rockwell

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
MW-12D	19-Oct-2021	1010			X	Groundwater	X			ALL VOC'S ARE UNPRESERVED	12
MW-26D	19-Oct-2021	1015			X		X			7 DAY HOLDING TIME	13
MW-25D	19-Oct-2021	1045			X		X				14
MW-28	19-Oct-2021	1103			X		X				15
MW-32DR	19-Oct-2021	1120			X		X				16
MW-32DR-a	19-Oct-2021	1120			X		X				17
MW-27	19-Oct-2021	1138			X		X				18
MW-22D	19-Oct-2021	1210			X		X				19
MW-22D	19-Oct-2021	1210			X		X				20
MW-13D	19-Oct-2021	1238			X		X				21
MW-3D	19-Oct-2021	1348			X		X				22
MW-14D	19-Oct-2021	1320			X		X				23
MW-14D-a	19-Oct-2021	1320			X		X				24
MW-14	19-Oct-2021	1410			X		X				25
MW-3	19-Oct-2021	1427			X		X				26

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-19-21	1745	1. Fed Ex		
2.				2. Stephanie Phillips	10/20/2021	1000
3.				3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
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

INITIAL ASSESSMENT

3.24kt

LABEL VERIFICATION

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

SGS Sample Receipt Summary

Job Number: FA89990 **Client:** AECOM **Project:** UTC DELAVAN SPRAY TECHNOLOGIES SITE,

Date / Time Received: 10/20/2021 10:00:00 AM **Delivery Method:** FX **Airbill #'s:** 4913 8693 5123

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.2);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

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 SAMPLE #20 (ID: MW-22D) HAS INCORRECT LABEL ON VIALS (ID: MW-22D-a) BUT HAS CORRECT TIME.

SM001
Rev. Date 05/24/17

Technician: STEPHENP Date: 10/20/2021 10:00:00 Reviewer: _____ Date: _____

MS 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: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3322-MB	2P82399.D	1	10/22/21	CV	n/a	n/a	V2P3322

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

FA89990-1, FA89990-2, FA89990-3, FA89990-4, FA89990-5, FA89990-6, FA89990-7, FA89990-8, FA89990-9

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	5.0	2.0	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: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3322-MB	2P82399.D	1	10/22/21	CV	n/a	n/a	V2P3322

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

FA89990-1, FA89990-2, FA89990-3, FA89990-4, FA89990-5, FA89990-6, FA89990-7, FA89990-8, FA89990-9

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.04	160	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-MB	C0151274.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA89990-10, FA89990-11, FA89990-13, FA89990-14, FA89990-15, FA89990-16, FA89990-17, FA89990-18, FA89990-19, FA89990-20, FA89990-21, FA89990-22, FA89990-23, FA89990-24, FA89990-25, FA89990-26

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	5.0	2.0	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: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-MB	C0151274.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA89990-10, FA89990-11, FA89990-13, FA89990-14, FA89990-15, FA89990-16, FA89990-17, FA89990-18, FA89990-19, FA89990-20, FA89990-21, FA89990-22, FA89990-23, FA89990-24, FA89990-25, FA89990-26

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1618-MB	1A39101.D	1	10/26/21	CF	n/a	n/a	V1A1618

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

FA89990-6

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6116-MB	C0151313.D	1	10/26/21	LV	n/a	n/a	VC6116

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

FA89990-12

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	5.0	2.0	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: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6116-MB	C0151313.D	1	10/26/21	LV	n/a	n/a	VC6116

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

FA89990-12

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

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.94	110	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3322-BS	2P82435.D	1	10/22/21	CV	n/a	n/a	V2P3322

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

FA89990-1, FA89990-2, FA89990-3, FA89990-4, FA89990-5, FA89990-6, FA89990-7, FA89990-8, FA89990-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	137	110	50-147
71-43-2	Benzene	25	28.8	115	81-122
75-27-4	Bromodichloromethane	25	27.6	110	79-123
75-25-2	Bromoform	25	22.7	91	66-123
78-93-3	2-Butanone (MEK)	125	132	106	56-143
75-15-0	Carbon Disulfide	25	24.6	98	66-148
56-23-5	Carbon Tetrachloride	25	28.3	113	76-136
108-90-7	Chlorobenzene	25	25.3	101	82-124
75-00-3	Chloroethane	25	30.2	121	62-144
67-66-3	Chloroform	25	27.3	109	80-124
124-48-1	Dibromochloromethane	25	23.2	93	78-122
75-34-3	1,1-Dichloroethane	25	29.7	119	81-122
107-06-2	1,2-Dichloroethane	25	26.9	108	75-125
75-35-4	1,1-Dichloroethylene	25	30.9	124	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.5	110	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.4	114	76-127
78-87-5	1,2-Dichloropropane	25	27.1	108	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.4	110	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.0	100	80-120
100-41-4	Ethylbenzene	25	24.9	100	81-121
591-78-6	2-Hexanone	125	124	99	61-129
74-83-9	Methyl Bromide	25	20.4	82	59-143
74-87-3	Methyl Chloride	25	24.5	98	50-159
75-09-2	Methylene Chloride	25	26.1	104	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	121	97	66-122
100-42-5	Styrene	25	24.8	99	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.0	92	72-120
127-18-4	Tetrachloroethylene	25	26.4	106	76-135
108-88-3	Toluene	25	24.0	96	80-120
71-55-6	1,1,1-Trichloroethane	25	27.8	111	75-130
79-00-5	1,1,2-Trichloroethane	25	23.6	94	76-119
79-01-6	Trichloroethylene	25	27.6	110	81-126
75-01-4	Vinyl Chloride	25	25.8	103	69-159
1330-20-7	Xylene (total)	75	76.2	102	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3322-BS	2P82435.D	1	10/22/21	CV	n/a	n/a	V2P3322

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

FA89990-1, FA89990-2, FA89990-3, FA89990-4, FA89990-5, FA89990-6, FA89990-7, FA89990-8, FA89990-9

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-BS	C0151271.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA89990-10, FA89990-11, FA89990-13, FA89990-14, FA89990-15, FA89990-16, FA89990-17, FA89990-18, FA89990-19, FA89990-20, FA89990-21, FA89990-22, FA89990-23, FA89990-24, FA89990-25, FA89990-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	99.2	79	50-147
71-43-2	Benzene	25	25.3	101	81-122
75-27-4	Bromodichloromethane	25	23.9	96	79-123
75-25-2	Bromoform	25	23.0	92	66-123
78-93-3	2-Butanone (MEK)	125	104	83	56-143
75-15-0	Carbon Disulfide	25	22.0	88	66-148
56-23-5	Carbon Tetrachloride	25	26.4	106	76-136
108-90-7	Chlorobenzene	25	23.1	92	82-124
75-00-3	Chloroethane	25	23.6	94	62-144
67-66-3	Chloroform	25	23.8	95	80-124
124-48-1	Dibromochloromethane	25	22.5	90	78-122
75-34-3	1,1-Dichloroethane	25	26.3	105	81-122
107-06-2	1,2-Dichloroethane	25	22.9	92	75-125
75-35-4	1,1-Dichloroethylene	25	25.3	101	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.9	104	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	24.4	98	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.6	98	80-120
100-41-4	Ethylbenzene	25	24.1	96	81-121
591-78-6	2-Hexanone	125	104	83	61-129
74-83-9	Methyl Bromide	25	22.4	90	59-143
74-87-3	Methyl Chloride	25	24.3	97	50-159
75-09-2	Methylene Chloride	25	22.0	88	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	97.4	78	66-122
100-42-5	Styrene	25	23.0	92	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	21.3	85	72-120
127-18-4	Tetrachloroethylene	25	26.6	106	76-135
108-88-3	Toluene	25	23.1	92	80-120
71-55-6	1,1,1-Trichloroethane	25	24.9	100	75-130
79-00-5	1,1,2-Trichloroethane	25	23.2	93	76-119
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-01-4	Vinyl Chloride	25	24.9	100	69-159
1330-20-7	Xylene (total)	75	72.7	97	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-BS	C0151271.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA89990-10, FA89990-11, FA89990-13, FA89990-14, FA89990-15, FA89990-16, FA89990-17, FA89990-18, FA89990-19, FA89990-20, FA89990-21, FA89990-22, FA89990-23, FA89990-24, FA89990-25, FA89990-26

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	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%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1618-BS	1A39097.D	1	10/26/21	CF	n/a	n/a	V1A1618

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

FA89990-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	22.2	89	78-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6116-BS	C0151310.D	1	10/26/21	LV	n/a	n/a	VC6116

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

FA89990-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	118	94	50-147
71-43-2	Benzene	25	22.9	92	81-122
75-27-4	Bromodichloromethane	25	22.4	90	79-123
75-25-2	Bromoform	25	22.1	88	66-123
78-93-3	2-Butanone (MEK)	125	124	99	56-143
75-15-0	Carbon Disulfide	25	20.3	81	66-148
56-23-5	Carbon Tetrachloride	25	24.4	98	76-136
108-90-7	Chlorobenzene	25	21.9	88	82-124
75-00-3	Chloroethane	25	25.4	102	62-144
67-66-3	Chloroform	25	23.5	94	80-124
124-48-1	Dibromochloromethane	25	21.0	84	78-122
75-34-3	1,1-Dichloroethane	25	24.2	97	81-122
107-06-2	1,2-Dichloroethane	25	22.1	88	75-125
75-35-4	1,1-Dichloroethylene	25	23.6	94	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.3	97	76-127
78-87-5	1,2-Dichloropropane	25	23.0	92	76-124
10061-01-5	cis-1,3-Dichloropropene	25	22.5	90	75-118
10061-02-6	trans-1,3-Dichloropropene	25	22.9	92	80-120
100-41-4	Ethylbenzene	25	22.9	92	81-121
591-78-6	2-Hexanone	125	123	98	61-129
74-83-9	Methyl Bromide	25	19.1	76	59-143
74-87-3	Methyl Chloride	25	31.8	127	50-159
75-09-2	Methylene Chloride	25	20.5	82	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	113	90	66-122
100-42-5	Styrene	25	23.0	92	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	20.5	82	72-120
127-18-4	Tetrachloroethylene	25	23.4	94	76-135
108-88-3	Toluene	25	22.1	88	80-120
71-55-6	1,1,1-Trichloroethane	25	23.2	93	75-130
79-00-5	1,1,2-Trichloroethane	25	21.5	86	76-119
79-01-6	Trichloroethylene	25	23.2	93	81-126
75-01-4	Vinyl Chloride	25	28.8	115	69-159
1330-20-7	Xylene (total)	75	69.4	93	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6116-BS	C0151310.D	1	10/26/21	LV	n/a	n/a	VC6116

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

FA89990-12

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-5MS	2P82437.D	2	10/22/21	CV	n/a	n/a	V2P3322
FA89990-5MSD	2P82439.D	2	10/22/21	CV	n/a	n/a	V2P3322
FA89990-5 [a]	2P82417.D	2	10/22/21	CV	n/a	n/a	V2P3322

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

FA89990-1, FA89990-2, FA89990-3, FA89990-4, FA89990-5, FA89990-6, FA89990-7, FA89990-8, FA89990-9

CAS No.	Compound	FA89990-5 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		250	266	106	250	259	104	3	50-147/21
71-43-2	Benzene	ND		50	57.2	114	50	57.4	115	0	81-122/14
75-27-4	Bromodichloromethane	ND		50	55.7	111	50	56.0	112	1	79-123/19
75-25-2	Bromoform	ND		50	45.5	91	50	49.5	99	8	66-123/21
78-93-3	2-Butanone (MEK)	ND		250	261	104	250	255	102	2	56-143/18
75-15-0	Carbon Disulfide	ND		50	49.5	99	50	49.7	99	0	66-148/23
56-23-5	Carbon Tetrachloride	ND		50	56.6	113	50	59.5	119	5	76-136/23
108-90-7	Chlorobenzene	ND		50	49.9	100	50	50.4	101	1	82-124/14
75-00-3	Chloroethane	ND		50	59.6	119	50	57.7	115	3	62-144/20
67-66-3	Chloroform	ND		50	53.9	108	50	54.9	110	2	80-124/15
124-48-1	Dibromochloromethane	ND		50	45.6	91	50	47.0	94	3	78-122/19
75-34-3	1,1-Dichloroethane	ND		50	58.2	116	50	59.1	118	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		50	54.9	110	50	53.2	106	3	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	61.2	122	50	60.1	120	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	8.0		50	64.3	113	50	64.4	113	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		50	55.9	112	50	55.2	110	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	54.6	109	50	54.4	109	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		50	53.6	107	50	55.3	111	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	50.6	101	50	49.8	100	2	80-120/22
100-41-4	Ethylbenzene	ND		50	49.0	98	50	48.7	97	1	81-121/14
591-78-6	2-Hexanone	ND		250	242	97	250	231	92	5	61-129/18
74-83-9	Methyl Bromide	ND		50	50.1	100	50	52.7	105	5	59-143/19
74-87-3	Methyl Chloride	ND		50	49.9	100	50	50.3	101	1	50-159/19
75-09-2	Methylene Chloride	ND		50	47.4	95	50	49.5	99	4	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	240	96	250	231	92	4	66-122/16
100-42-5	Styrene	ND		50	49.9	100	50	51.1	102	2	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	46.3	93	50	44.5	89	4	72-120/14
127-18-4	Tetrachloroethylene	123		50	165	84	50	165	84	0	76-135/16
108-88-3	Toluene	ND		50	48.8	98	50	49.2	98	1	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		50	56.7	113	50	57.2	114	1	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	47.5	95	50	47.0	94	1	76-119/14
79-01-6	Trichloroethylene	36.9		50	96.1	118	50	96.4	119	0	81-126/15
75-01-4	Vinyl Chloride	ND		50	54.1	108	50	52.9	106	2	69-159/18
1330-20-7	Xylene (total)	ND		150	151	101	150	151	101	0	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-5MS	2P82437.D	2	10/22/21	CV	n/a	n/a	V2P3322
FA89990-5MSD	2P82439.D	2	10/22/21	CV	n/a	n/a	V2P3322
FA89990-5 [a]	2P82417.D	2	10/22/21	CV	n/a	n/a	V2P3322

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

FA89990-1, FA89990-2, FA89990-3, FA89990-4, FA89990-5, FA89990-6, FA89990-7, FA89990-8, FA89990-9

CAS No.	Surrogate Recoveries	MS	MSD	FA89990-5	Limits
1868-53-7	Dibromofluoromethane	101%	103%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	100%	79-125%
2037-26-5	Toluene-D8	94%	93%	95%	85-112%
460-00-4	4-Bromofluorobenzene	99%	97%	97%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-10MS	C0151295.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10MSD	C0151296.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10 [a]	C0151277.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA89990-10, FA89990-11, FA89990-13, FA89990-14, FA89990-15, FA89990-16, FA89990-17, FA89990-18, FA89990-19, FA89990-20, FA89990-21, FA89990-22, FA89990-23, FA89990-24, FA89990-25, FA89990-26

CAS No.	Compound	FA89990-10 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		125	77.8	62	125	73.0	58	6	50-147/21
71-43-2	Benzene	ND		25	28.8	115	25	26.1	104	10	81-122/14
75-27-4	Bromodichloromethane	ND		25	28.3	113	25	26.1	104	8	79-123/19
75-25-2	Bromoform	ND		25	23.8	95	25	21.4	86	11	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	84.4	68	125	74.5	60	12	56-143/18
75-15-0	Carbon Disulfide	ND		25	24.4	98	25	22.4	90	9	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	30.6	122	25	27.4	110	11	76-136/23
108-90-7	Chlorobenzene	ND		25	27.5	110	25	24.9	100	10	82-124/14
75-00-3	Chloroethane	ND		25	26.4	106	25	24.9	100	6	62-144/20
67-66-3	Chloroform	ND		25	27.6	110	25	26.4	106	4	80-124/15
124-48-1	Dibromochloromethane	ND		25	26.5	106	25	24.0	96	10	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	30.7	123*	25	28.2	113	8	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	26.4	106	25	24.4	98	8	75-125/14
75-35-4	1,1-Dichloroethylene	1.7		25	31.4	119	25	29.2	110	7	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.2		25	31.7	122*	25	29.8	114	6	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	29.3	117	25	27.2	109	7	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	28.1	112	25	26.5	106	6	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.8	107	25	25.0	100	7	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.3	109	25	24.1	96	12	80-120/22
100-41-4	Ethylbenzene	ND		25	28.0	112	25	25.0	100	11	81-121/14
591-78-6	2-Hexanone	ND		125	87.0	70	125	80.2	64	8	61-129/18
74-83-9	Methyl Bromide	2.5	J	25	32.2	119	25	31.0	114	4	59-143/19
74-87-3	Methyl Chloride	ND		25	20.7	83	25	20.6	82	0	50-159/19
75-09-2	Methylene Chloride	ND		25	24.8	99	25	21.9	88	12	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	90.3	72	125	82.0	66	10	66-122/16
100-42-5	Styrene	ND		25	27.0	108	25	24.9	100	8	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.3	89	25	19.4	78	14	72-120/14
127-18-4	Tetrachloroethylene	85.9		25	126	160* [b]	25	127	164* [b]	1	76-135/16
108-88-3	Toluene	0.42	J	25	28.3	112	25	26.5	104	7	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	29.1	116	25	27.4	110	6	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	25.4	102	25	23.0	92	10	76-119/14
79-01-6	Trichloroethylene	ND		25	29.2	117	25	28.0	112	4	81-126/15
75-01-4	Vinyl Chloride	ND		25	27.3	109	25	24.8	99	10	69-159/18
1330-20-7	Xylene (total)	ND		75	83.3	111	75	75.3	100	10	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-10MS	C0151295.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10MSD	C0151296.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10 [a]	C0151277.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA89990-10, FA89990-11, FA89990-13, FA89990-14, FA89990-15, FA89990-16, FA89990-17, FA89990-18, FA89990-19, FA89990-20, FA89990-21, FA89990-22, FA89990-23, FA89990-24, FA89990-25, FA89990-26

CAS No.	Surrogate Recoveries	MS	MSD	FA89990-10	Limits
1868-53-7	Dibromofluoromethane	100%	104%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	100%	79-125%
2037-26-5	Toluene-D8	99%	98%	95%	85-112%
460-00-4	4-Bromofluorobenzene	101%	99%	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: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89927-3MS	1A39143.D	2	10/27/21	CF	n/a	n/a	V1A1618
FA89927-3MSD	1A39145.D	2	10/27/21	CF	n/a	n/a	V1A1618
FA89927-3	1A39137.D	2	10/26/21	CF	n/a	n/a	V1A1618

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

FA89990-6

CAS No.	Compound	FA89927-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND		50	45.9	92	50	45.1	90	2	78-120/15

CAS No.	Surrogate Recoveries	MS	MSD	FA89927-3	Limits
1868-53-7	Dibromofluoromethane	97%	98%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	101%	79-125%
2037-26-5	Toluene-D8	105%	105%	105%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-12MS	C0151334.D	5	10/27/21	LV	n/a	n/a	VC6116
FA89990-12MSD	C0151335.D	5	10/27/21	LV	n/a	n/a	VC6116
FA89990-12 [a]	C0151315.D	1	10/26/21	LV	n/a	n/a	VC6116

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

FA89990-12

CAS No.	Compound	FA89990-12 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	591	95	625	588	94	1	50-147/21
71-43-2	Benzene	ND		125	118	94	125	120	96	2	81-122/14
75-27-4	Bromodichloromethane	ND		125	108	86	125	118	94	9	79-123/19
75-25-2	Bromoform	ND		125	108	86	125	111	89	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	603	96	625	610	98	1	56-143/18
75-15-0	Carbon Disulfide	ND		125	101	81	125	102	82	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	123	98	125	127	102	3	76-136/23
108-90-7	Chlorobenzene	ND		125	109	87	125	111	89	2	82-124/14
75-00-3	Chloroethane	ND		125	119	95	125	135	108	13	62-144/20
67-66-3	Chloroform	ND		125	113	90	125	116	93	3	80-124/15
124-48-1	Dibromochloromethane	ND		125	107	86	125	108	86	1	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	125	100	125	126	101	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	111	89	125	115	92	4	75-125/14
75-35-4	1,1-Dichloroethylene	0.41	J	125	119	95	125	124	99	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	120	96	125	126	101	5	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	121	97	125	123	98	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	116	93	125	114	91	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	115	92	125	112	90	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	1.4	1*	125	117	94	195*	80-120/22
100-41-4	Ethylbenzene	ND		125	113	90	125	117	94	3	81-121/14
591-78-6	2-Hexanone	ND		625	587	94	625	595	95	1	61-129/18
74-83-9	Methyl Bromide	ND		125	33.8	27*	125	52.6	42*	44*	59-143/19
74-87-3	Methyl Chloride	ND		125	98.2	79	125	116	93	17	50-159/19
75-09-2	Methylene Chloride	ND		125	103	82	125	105	84	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	534	85	625	544	87	2	66-122/16
100-42-5	Styrene	ND		125	108	86	125	113	90	5	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	105	84	125	106	85	1	72-120/14
127-18-4	Tetrachloroethylene	31.3		125	171	112	125	182	121	6	76-135/16
108-88-3	Toluene	0.49	J	125	112	89	125	114	91	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	119	95	125	119	95	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	111	89	125	111	89	0	76-119/14
79-01-6	Trichloroethylene	ND		125	121	97	125	116	93	4	81-126/15
75-01-4	Vinyl Chloride	ND		125	117	94	125	137	110	16	69-159/18
1330-20-7	Xylene (total)	ND		375	338	90	375	351	94	4	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA89990
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-12MS	C0151334.D	5	10/27/21	LV	n/a	n/a	VC6116
FA89990-12MSD	C0151335.D	5	10/27/21	LV	n/a	n/a	VC6116
FA89990-12 [a]	C0151315.D	1	10/26/21	LV	n/a	n/a	VC6116

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

FA89990-12

CAS No.	Surrogate Recoveries	MS	MSD	FA89990-12	Limits
1868-53-7	Dibromofluoromethane	100%	99%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	101%	79-125%
2037-26-5	Toluene-D8	98%	102%	96%	85-112%
460-00-4	4-Bromofluorobenzene	100%	103%	103%	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.

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60656814/TASK 1A

SGS Job Number: FA90040

Sampling Dates: 10/19/21 - 10/20/21



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: **115**

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), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, UT, VT, WA, WV

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FA90040

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60656814/TASK 1A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA90040-1	10/19/21	00:00	RMMR	10/21/21	AQ	Trip Blank Water	TRIP BLANK 3
FA90040-2	10/19/21	00:00	RMMR	10/21/21	AQ	Trip Blank Water	TRIP BLANK 4
FA90040-3	10/19/21	16:20	RMMR	10/21/21	AQ	Ground Water	MW-24
FA90040-4	10/19/21	16:20	RMMR	10/21/21	AQ	Ground Water	MW-24-A
FA90040-5	10/19/21	15:18	RMMR	10/21/21	AQ	Ground Water	MW-1
FA90040-6	10/19/21	15:10	RMMR	10/21/21	AQ	Ground Water	MW-5
FA90040-7	10/19/21	16:10	RMMR	10/21/21	AQ	Ground Water	MW-8
FA90040-8	10/20/21	08:57	RMMR	10/21/21	AQ	Ground Water	MW-21D
FA90040-9	10/20/21	08:55	RMMR	10/21/21	AQ	Ground Water	MW-34D
FA90040-10	10/20/21	09:35	RMMR	10/21/21	AQ	Ground Water	MW-2
FA90040-11	10/20/21	09:40	RMMR	10/21/21	AQ	Ground Water	MW-35D
FA90040-12	10/20/21	10:15	RMMR	10/21/21	AQ	Ground Water	MW-21

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: FA90040

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60656814/TASK 1A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA90040-13	10/20/21	10:20	RMMR	10/21/21	AQ	Ground Water	MW-33D
FA90040-14	10/20/21	10:55	RMMR	10/21/21	AQ	Ground Water	MW-7
FA90040-15	10/20/21	11:10	RMMR	10/21/21	AQ	Ground Water	MW-36D
FA90040-16	10/20/21	11:40	RMMR	10/21/21	AQ	Ground Water	AQUEOUS IDW
FA90040-17	10/20/21	12:05	RMMR	10/21/21	AQ	Surface Water	SW-01-LC
FA90040-18	10/20/21	12:20	RMMR	10/21/21	AQ	Surface Water	SW-04-TLC
FA90040-19	10/20/21	13:00	RMMR	10/21/21	AQ	Surface Water	SW-02-LC
FA90040-20	10/20/21	13:10	RMMR	10/21/21	AQ	Surface Water	SW-03-HMB

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FA90040

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date** 11/5/2021 2:58:13 PM

On 10/21/2021, 18 Sample(s), 2 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of FA90040 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A1618

Sample(s) FA89927-3MS, FA89927-3MSD were used as the QC samples indicated.

FA90040-4 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-4 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-4: Sample was not preserved to a pH < 2.

FA90040-5: Sample was not preserved to a pH < 2.

FA90040-6 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-6 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-6: Sample was not preserved to a pH < 2.

FA90040-7: Sample was not preserved to a pH < 2.

FA90040-8: Sample was not preserved to a pH < 2.

FA90040-11 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-11 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-11: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V1A1620

Sample(s) JD33705-6MS, JD33705-6MSD were used as the QC samples indicated.

FA90040-16: Sample re-analyzed beyond hold time; reported results are considered minimum values. Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V2A1618

Sample(s) FA90040-12MS, FA90040-12MSD were used as the QC samples indicated.

FA90040-12 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-12 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-12: Sample was not preserved to a pH < 2.

FA90040-13 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-13 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-13: Sample was not preserved to a pH < 2.

FA90040-14 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-14 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-14: Sample was not preserved to a pH < 2.

FA90040-15 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-15 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-15: Sample was not preserved to a pH < 2.

FA90040-16 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-16 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-16: Sample was not preserved to a pH < 2.

FA90040-17 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-17 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-17: Sample was not preserved to a pH < 2.

FA90040-18 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-18 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-18: Sample was not preserved to a pH < 2.

FA90040-19 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.

FA90040-19 for Methyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-19: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V2P3323

Sample(s) FA89845-2MS, FA89845-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzene, Xylene (total), Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

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

RPD(s) for MSD for Ethylbenzene, Methyl Bromide are outside control limits for sample FA89845-2MSD. Probable cause is due to sample non-homogeneity.

FA90040-5: Sample was not preserved to a pH < 2.

FA90040-7: Sample was not preserved to a pH < 2.

FA90040-8: Sample was not preserved to a pH < 2.

FA90040-9: Sample was not preserved to a pH < 2.

FA90040-10: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VC6115

Sample(s) FA89990-10MS, FA89990-10MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethane, cis-1,2-Dichloroethylene, Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

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

FA90040-1: Sample was not preserved to a pH < 2.

FA90040-2: Sample was not preserved to a pH < 2.

FA90040-3: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VC6117

Sample(s) JD33536-3MS, JD33536-3MSD were used as the QC samples indicated.

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 interference.

For Sample(s) FA90040-20 are associated with an CCV that has a recovery for Methyl Bromide outside low control limit.

For Sample(s) FA90040-20 are associated with an CCV that has a recovery for Methyl Chloride outside hight control limit.

FA90040-20: Sample was not preserved to a pH < 2.

FA90040-20 for Methyl Bromide: Associated CCV outside of control limits low.

FA90040-20 for Vinyl Chloride: Associated CCV outside of control limits high, sample was ND.

FA90040-20 for Methyl Chloride: Associated CCV outside of control limits high.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP87963

Sample(s) FA89967-1MS, FA89967-1MSD were used as the QC samples indicated.

For Sample(s) FA90040-16 are associated with an CCV that has a recovery for Hexachlorocyclopentadiene, Pentachlorophenol outside low control limit.

FA90040-16 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low.

FA90040-16 for Pentachlorophenol: Associated CCV outside of control limits low.

OP87963-BS for Phenol-d5: Outside control limits.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP39781

Sample(s) FA90040-16DUP, FA90040-16MS, FA90040-16MSD, FA90040-16PS, FA90040-16SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony, Nickel are outside control limits for sample MP39781-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Chromium, Nickel are outside control limits for sample MP39781-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP39784

Sample(s) FA90183-1FDUP, FA90183-1FMS, FA90183-1FMSD, FA90183-1FSDL were used as the QC samples for metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____
Ariel Hartney, Client Services (signature on file)

Summary of Hits

Job Number: FA90040
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/21 thru 10/20/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA90040-1	**TRIP BLANK 3**					
Methyl Bromide [a]		2.6 J	5.0	2.0	ug/l	SW846 8260D
Toluene [a]		5.5	1.0	0.30	ug/l	SW846 8260D
FA90040-2	**TRIP BLANK 4**					
Toluene [a]		8.5	1.0	0.30	ug/l	SW846 8260D
FA90040-3	**MW-24**					
Tetrachloroethylene [a]		1230	25	5.4	ug/l	SW846 8260D
FA90040-4	**MW-24-A**					
cis-1,2-Dichloroethylene [a]		11.7 J	20	5.5	ug/l	SW846 8260D
Tetrachloroethylene [a]		1390	20	4.3	ug/l	SW846 8260D
FA90040-5	**MW-1**					
cis-1,2-Dichloroethylene [a]		5.2	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		108	2.5	0.54	ug/l	SW846 8260D
Toluene [a]		1.6	1.0	0.30	ug/l	SW846 8260D
Trichloroethylene [a]		8.6	1.0	0.35	ug/l	SW846 8260D
FA90040-6	**MW-5**					
Tetrachloroethylene [a]		1.4	1.0	0.22	ug/l	SW846 8260D
FA90040-7	**MW-8**					
cis-1,2-Dichloroethylene [a]		10.4	2.5	0.69	ug/l	SW846 8260D
Tetrachloroethylene [a]		315	5.0	1.1	ug/l	SW846 8260D
Toluene [a]		1.3 J	2.5	0.75	ug/l	SW846 8260D
Trichloroethylene [a]		50.1	2.5	0.86	ug/l	SW846 8260D
FA90040-8	**MW-21D**					
1,1-Dichloroethylene [a]		2.0	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		1.1	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		114	2.5	0.54	ug/l	SW846 8260D
Toluene [a]		2.1	1.0	0.30	ug/l	SW846 8260D
Trichloroethylene [a]		0.69 J	1.0	0.35	ug/l	SW846 8260D

Summary of Hits

Job Number: FA90040
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/21 thru 10/20/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA90040-9	**MW-34D**					
Toluene [a]		1.2	1.0	0.30	ug/l	SW846 8260D
FA90040-10	**MW-2**					
Tetrachloroethylene [a]		1.1	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		2.1	1.0	0.30	ug/l	SW846 8260D
FA90040-11	**MW-35D**					
Toluene [a]		1.2	1.0	0.30	ug/l	SW846 8260D
FA90040-12	**MW-21**					
cis-1,2-Dichloroethylene [a]		464	200	55	ug/l	SW846 8260D
Tetrachloroethylene [a]		14500	200	43	ug/l	SW846 8260D
Trichloroethylene [a]		263	200	69	ug/l	SW846 8260D
FA90040-13	**MW-33D**					
Toluene [a]		3.7	1.0	0.30	ug/l	SW846 8260D
FA90040-14	**MW-7**					
Tetrachloroethylene [a]		0.82 J	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		1.6	1.0	0.30	ug/l	SW846 8260D
FA90040-15	**MW-36D**					
Toluene [a]		4.1	1.0	0.30	ug/l	SW846 8260D
FA90040-16	**AQUEOUS IDW**					
cis-1,2-Dichloroethylene [a]		12.8	5.0	1.4	ug/l	SW846 8260D
Tetrachloroethylene [b]		553	10	2.2	ug/l	SW846 8260D
Toluene [a]		2.0 J	5.0	1.5	ug/l	SW846 8260D
Trichloroethylene [a]		5.5	5.0	1.7	ug/l	SW846 8260D
Antimony		1.9 J	6.0	1.0	ug/l	SW846 6010D
Chromium		3.0 J	10	1.0	ug/l	SW846 6010D
Nickel		0.90 J	40	0.40	ug/l	SW846 6010D
Zinc		18.1 J	20	4.4	ug/l	SW846 6010D

Summary of Hits

Job Number: FA90040
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/19/21 thru 10/20/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA90040-17	**SW-01-LC**					
Tetrachloroethylene [a]		2.8	1.0	0.22	ug/l	SW846 8260D
FA90040-18	**SW-04-TLC**					
No hits reported in this sample.						
FA90040-19	**SW-02-LC**					
No hits reported in this sample.						
FA90040-20	**SW-03-HMB**					
Chloroform [a]		0.84 J	1.0	0.30	ug/l	SW846 8260D
Methyl Chloride [c]		0.84 J	2.0	0.50	ug/l	SW846 8260D

(a) Sample was not preserved to a pH < 2.
(b) Sample re-analyzed beyond hold time; reported results are considered minimum values. Sample was not preserved to a pH < 2.
(c) Sample was not preserved to a pH < 2. Associated CCV outside of control limits high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK 3		
Lab Sample ID:	FA90040-1	**Date Sampled:**	10/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/21
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]	C0151275.D	1	10/25/21 13:41	LV	n/a	n/a	VC6115
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	2.6	5.0	2.0	ug/l	J
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	5.5	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:	FA90040-1	**Date Sampled:**	10/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/21
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	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

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

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:	FA90040-2	**Date Sampled:**	10/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/21
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]	C0151276.D	1	10/25/21 14:06	LV	n/a	n/a	VC6115
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	5.0	2.0	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	8.5	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:	FA90040-2	**Date Sampled:**	10/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/21/21
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	98%		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-24		
Lab Sample ID:	FA90040-3	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	C0151294.D	25	10/25/21 21:37	LV	n/a	n/a	VC6115
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	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	ND	25	6.9	ug/l	
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	ND	130	50	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	1230	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:	FA90040-3	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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:	FA90040-4	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	1A39117.D	20	10/26/21 17:51	CF	n/a	n/a	V1A1618
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	500	200	ug/l	
71-43-2	Benzene	ND	20	6.2	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.8	ug/l	
75-25-2	Bromoform	ND	20	8.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	40	ug/l	
75-15-0	Carbon Disulfide	ND	40	11	ug/l	
56-23-5	Carbon Tetrachloride	ND	20	7.1	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane [b]	ND	40	13	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
124-48-1	Dibromochloromethane	ND	20	5.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	6.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	6.2	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	6.4	ug/l	
156-59-2	cis-1,2-Dichloroethylene	11.7	20	5.5	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	20	4.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	8.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.8	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.3	ug/l	
100-41-4	Ethylbenzene	ND	20	7.1	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
74-83-9	Methyl Bromide	ND	100	40	ug/l	
74-87-3	Methyl Chloride [c]	ND	40	10	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	20	ug/l	
100-42-5	Styrene	ND	20	4.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
127-18-4	Tetrachloroethylene	1390	20	4.3	ug/l	
108-88-3	Toluene	ND	20	6.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	9.3	ug/l	
79-01-6	Trichloroethylene	ND	20	6.9	ug/l	

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

Report of Analysis

Client Sample ID:	MW-24-A		
Lab Sample ID:	FA90040-4	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	20	8.2	ug/l	
1330-20-7	Xylene (total)	ND	60	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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-1		
Lab Sample ID:	FA90040-5	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2P82479.D	1	10/25/21 22:44	CF	n/a	n/a	V2P3323
Run #2 [a]	1A39119.D	2.5	10/26/21 18:21	CF	n/a	n/a	V1A1618

	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	5.2	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	5.0	2.0	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	108 [b]	2.5	0.54	ug/l	
108-88-3	Toluene	1.6	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	8.6	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:	FA90040-5	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	93%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	100%	79-125%
2037-26-5	Toluene-D8	99%	105%	85-112%
460-00-4	4-Bromofluorobenzene	102%	97%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA90040-6	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	1A39111.D	1	10/26/21 16:22	CF	n/a	n/a	V1A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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-5		
Lab Sample ID:	FA90040-6	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		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 Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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-8		
Lab Sample ID:	FA90040-7	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2P82483.D	2.5	10/25/21 23:48	CF	n/a	n/a	V2P3323
Run #2 [a]	1A39121.D	5	10/26/21 18:50	CF	n/a	n/a	V1A1618

	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	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	10.4	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	13	5.0	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	315 [b]	5.0	1.1	ug/l	
108-88-3	Toluene	1.3	2.5	0.75	ug/l	J
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	50.1	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:	FA90040-7	**Date Sampled:**	10/19/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	94%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	101%	79-125%
2037-26-5	Toluene-D8	102%	105%	85-112%
460-00-4	4-Bromofluorobenzene	98%	96%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-21D		
Lab Sample ID:	FA90040-8	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2P82485.D	1	10/26/21 00:20	CF	n/a	n/a	V2P3323
Run #2 [a]	1A39123.D	2.5	10/26/21 19:20	CF	n/a	n/a	V1A1618

	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	2.0	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.1	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	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	114 [b]	2.5	0.54	ug/l	
108-88-3	Toluene	2.1	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	0.69	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-21D		
Lab Sample ID:	FA90040-8	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	94%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	100%	79-125%
2037-26-5	Toluene-D8	99%	105%	85-112%
460-00-4	4-Bromofluorobenzene	102%	96%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-34D		
Lab Sample ID:	FA90040-9	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2P82487.D	1	10/26/21 00:52	CF	n/a	n/a	V2P3323
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	5.0	2.0	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	1.2	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:	FA90040-9	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA90040-10	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2P82489.D	1	10/26/21 01:24	CF	n/a	n/a	V2P3323
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	5.0	2.0	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	1.1	1.0	0.22	ug/l	
108-88-3	Toluene	2.1	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:	FA90040-10	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	94%		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	100%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-35D		
Lab Sample ID:	FA90040-11	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	1A39141.D	1	10/26/21 23:47	CF	n/a	n/a	V1A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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	1.2	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:	FA90040-11	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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-21		
Lab Sample ID:	FA90040-12	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2A39128.D	200	10/26/21 20:34	CF	n/a	n/a	V2A1618
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	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 [b]	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	464	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	1000	400	ug/l	
74-87-3	Methyl Chloride [c]	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	14500	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	263	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:	FA90040-12	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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-33D		
Lab Sample ID:	FA90040-13	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2A39130.D	1	10/26/21 21:04	CF	n/a	n/a	V2A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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	3.7	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-33D		
Lab Sample ID:	FA90040-13	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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-7		
Lab Sample ID:	FA90040-14	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2A39132.D	1	10/26/21 21:34	CF	n/a	n/a	V2A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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	0.82	1.0	0.22	ug/l	J
108-88-3	Toluene	1.6	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:	FA90040-14	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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-36D		
Lab Sample ID:	FA90040-15	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2A39134.D	1	10/26/21 22:03	CF	n/a	n/a	V2A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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	4.1	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:	FA90040-15	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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:	AQUEOUS IDW		
Lab Sample ID:	FA90040-16	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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]	2A39136.D	5	10/26/21 22:33	CF	n/a	n/a	V2A1618
Run #2 [b]	1A39237.D	10	10/28/21 18:01	CF	n/a	n/a	V1A1620

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane [c]	ND	10	3.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	12.8	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	25	10	ug/l	
74-87-3	Methyl Chloride [d]	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	553 [e]	10	2.2	ug/l	
108-88-3	Toluene	2.0	5.0	1.5	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	5.5	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:	AQUEOUS IDW		
Lab Sample ID:	FA90040-16	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	92%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	101%	79-125%
2037-26-5	Toluene-D8	106%	104%	85-112%
460-00-4	4-Bromofluorobenzene	99%	94%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample re-analyzed beyond hold time; reported results are considered minimum values. Sample was not preserved to a pH < 2.
(c) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(d) Associated CCV outside of control limits high, sample was ND.
(e) 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:	FA90040-16	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	X078284.D	1	10/22/21 18:28	WH	10/22/21 10:00	OP87963	SX3158
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	48	9.6	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.8	0.57	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	0.61	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	0.80	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	0.71	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	4.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	1.9	ug/l	
95-48-7	2-Methylphenol	ND	4.8	0.54	ug/l	
	3&4-Methylphenol	ND	4.8	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	0.82	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	0.71	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	0.77	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.73	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.75	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.75	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.79	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.82	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.59	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.8	0.81	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.8	0.96	ug/l	
86-74-8	Carbazole	ND	4.8	0.58	ug/l	
106-47-8	4-Chloroaniline	ND	4.8	0.61	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.78	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	0.73	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:	FA90040-16	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	0.52	ug/l	
218-01-9	Chrysene	ND	4.8	0.82	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.77	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.58	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	0.62	ug/l	
84-66-2	Diethyl Phthalate	ND	4.8	0.96	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.8	0.96	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.8	0.96	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	0.69	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	0.96	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	ND	4.8	0.67	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene [a]	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	0.69	ug/l	
78-59-1	Isophorone	ND	4.8	0.75	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.58	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	0.85	ug/l	
100-01-6	4-Nitroaniline	ND	4.8	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.90	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	4.8	0.64	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	0.78	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.83	ug/l	
129-00-0	Pyrene	ND	4.8	0.66	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	23%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		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:	FA90040-16	**Date Sampled:**	10/20/21
Matrix:	AQ - Ground Water	**Date Received:**	10/21/21
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	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

(a) Associated CCV outside of control limits low.

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: FA90040-16
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/20/21
Date Received: 10/21/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.9 J	6.0	1.0	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Arsenic	1.3 U	10	1.3	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.20 U	4.0	0.20	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Cadmium	0.20 U	5.0	0.20	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Chromium	3.0 J	10	1.0	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Copper	1.0 U	25	1.0	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Lead	1.1 U	5.0	1.1	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Mercury	0.030 U	0.50	0.030	ug/l	1	10/27/21	10/27/21	JC	SW846 7470A [1]	SW846 7470A [4]
Nickel	0.90 J	40	0.40	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Selenium	2.9 U	10	2.9	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Silver	0.70 U	10	0.70	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Thallium	1.4 U	10	1.4	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]
Zinc	18.1 J	20	4.4	ug/l	1	10/27/21	10/27/21	LM	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA18167
(2) Instrument QC Batch: MA18170
(3) Prep QC Batch: MP39781
(4) Prep QC Batch: MP39784

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:	FA90040-17	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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]	2A39138.D	1	10/26/21 23:03	CF	n/a	n/a	V2A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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	2.8	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:	SW-01-LC		
Lab Sample ID:	FA90040-17	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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:	SW-04-TLC		
Lab Sample ID:	FA90040-18	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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]	2A39140.D	1	10/26/21 23:32	CF	n/a	n/a	V2A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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:	FA90040-18	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(c) Associated CCV outside of control limits high, sample was ND.

Report of Analysis

Client Sample ID:	SW-02-LC		
Lab Sample ID:	FA90040-19	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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]	2A39142.D	1	10/27/21 00:02	CF	n/a	n/a	V2A1618
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	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	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:	FA90040-19	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); however sample is ND.
(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:	SW-03-HMB		
Lab Sample ID:	FA90040-20	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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]	C0151345.D	1	10/27/21 13:42	LV	n/a	n/a	VC6117
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	0.84	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 [b]	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride [c]	0.84	2.0	0.50	ug/l	J
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:	FA90040-20	**Date Sampled:**	10/20/21
Matrix:	AQ - Surface Water	**Date Received:**	10/21/21
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 [d]	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	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

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

FA90040

AECOM Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
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 Rockwell

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
1	Trip Blank #3	19-Oct-2021			X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
2	Trip Blank #4	19-Oct-2021			X			X			7 DAY HOLDING TIME	
3	MW-24	19-Oct-2021	1620			X		X				
4	MW-24-a	19-Oct-2021	1620			X		X				
5	MW-1	19-Oct-2021	1518			X		X				
6	MW-5	19-Oct-2021	1510			X		X				
7	MW-8	19-Oct-2021	1610			X		X				
8	MW-210	20-Oct-2021	0859			X		X				
9	MW-340	20-Oct-2021	0855			X		X				
10	MW-2	20-Oct-2021	0935			X		X				
11	MW-350	20-Oct-2021	0940			X		X				
12	MW-21	20-Oct-2021	1015			X		X				
13	MW-330	20-Oct-2021	1020			X		X				
14	MW-7	20-Oct-2021	1055			X		X				
15	MW-360	20-Oct-2021	1110			X		X				

Sample Analysis Requested

Quality Assurance Samples

INITIAL ASSESSMENT

LABEL VERIFICATION

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-2021	1830	[illegible]	10/21/21	10:15
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: Fed Ex
Analytical Lab: Accutest
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

1.2 IRY

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

5.1.5

FA90040: Chain of Custody
Page 1 of 3

FA90040

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
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 Rockwell

Project Manager: Leslee Alexander

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOCs 8260D	TCL SVOCs (8270E)	PM 13	COMMENTS	Cooler ID
16	Aqueous IDW	20-Oct-2021	1140		X		Groundwater	X	X	X	ALL VOC'S ARE UNPRESERVED	
17	SW-01-LC	20-Oct-2021	1205		X		Surface Water	X			7 DAY HOLDING TIME	
18	SW-04-TLC	20-Oct-2021	1220		X			X				
19	SW-02-LC	20-Oct-2021	1300		X			X				
20	SW-03-HMB	20-Oct-2021	1310		X			X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	10-20-2021	1830	[illegible]	10/21/21	10:15
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped:	XXXX
Method of Shipment:	Fed Ex	Airbill #:	
Analytical Lab:	Accutest	Location:	Orlando FLA
Lab Recipient:		Date:	Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

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

FA90040: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA90040 **Client:** UTC **Project:** UTC DELAVAN SPRAY TECHNOLOGIES SITE,

Date / Time Received: 10/21/2021 10:15:00 AM **Delivery Method:** **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.2);

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: jeffreyj Date: 10/21/2021 10:15:00 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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-MB	C0151274.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA90040-1, FA90040-2, FA90040-3

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	5.0	2.0	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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-MB	C0151274.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA90040-1, FA90040-2, FA90040-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3323-MB	2P82453.D	1	10/25/21	CF	n/a	n/a	V2P3323

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

FA90040-5, FA90040-7, FA90040-8, FA90040-9, FA90040-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3323-MB	2P82453.D	1	10/25/21	CF	n/a	n/a	V2P3323

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

FA90040-5, FA90040-7, FA90040-8, FA90040-9, FA90040-10

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1618-MB	1A39101.D	1	10/26/21	CF	n/a	n/a	V1A1618

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

FA90040-4, FA90040-5, FA90040-6, FA90040-7, FA90040-8, FA90040-11

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	5.0	2.0	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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1618-MB	1A39101.D	1	10/26/21	CF	n/a	n/a	V1A1618

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

FA90040-4, FA90040-5, FA90040-6, FA90040-7, FA90040-8, FA90040-11

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1618-MB	2A39102.D	1	10/26/21	CF	n/a	n/a	V2A1618

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

FA90040-12, FA90040-13, FA90040-14, FA90040-15, FA90040-16, FA90040-17, FA90040-18, FA90040-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1618-MB	2A39102.D	1	10/26/21	CF	n/a	n/a	V2A1618

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

FA90040-12, FA90040-13, FA90040-14, FA90040-15, FA90040-16, FA90040-17, FA90040-18, FA90040-19

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6117-MB	C0151343.D	1	10/27/21	LV	n/a	n/a	VC6117

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

FA90040-20

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	5.0	2.0	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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6117-MB	C0151343.D	1	10/27/21	LV	n/a	n/a	VC6117

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

FA90040-20

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	96%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.94	120	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1620-MB	1A39213.D	1	10/28/21	CF	n/a	n/a	V1A1620

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

FA90040-16

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	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-BS	C0151271.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA90040-1, FA90040-2, FA90040-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	99.2	79	50-147
71-43-2	Benzene	25	25.3	101	81-122
75-27-4	Bromodichloromethane	25	23.9	96	79-123
75-25-2	Bromoform	25	23.0	92	66-123
78-93-3	2-Butanone (MEK)	125	104	83	56-143
75-15-0	Carbon Disulfide	25	22.0	88	66-148
56-23-5	Carbon Tetrachloride	25	26.4	106	76-136
108-90-7	Chlorobenzene	25	23.1	92	82-124
75-00-3	Chloroethane	25	23.6	94	62-144
67-66-3	Chloroform	25	23.8	95	80-124
124-48-1	Dibromochloromethane	25	22.5	90	78-122
75-34-3	1,1-Dichloroethane	25	26.3	105	81-122
107-06-2	1,2-Dichloroethane	25	22.9	92	75-125
75-35-4	1,1-Dichloroethylene	25	25.3	101	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.9	104	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	24.4	98	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.2	97	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.6	98	80-120
100-41-4	Ethylbenzene	25	24.1	96	81-121
591-78-6	2-Hexanone	125	104	83	61-129
74-83-9	Methyl Bromide	25	22.4	90	59-143
74-87-3	Methyl Chloride	25	24.3	97	50-159
75-09-2	Methylene Chloride	25	22.0	88	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	97.4	78	66-122
100-42-5	Styrene	25	23.0	92	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	21.3	85	72-120
127-18-4	Tetrachloroethylene	25	26.6	106	76-135
108-88-3	Toluene	25	23.1	92	80-120
71-55-6	1,1,1-Trichloroethane	25	24.9	100	75-130
79-00-5	1,1,2-Trichloroethane	25	23.2	93	76-119
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-01-4	Vinyl Chloride	25	24.9	100	69-159
1330-20-7	Xylene (total)	75	72.7	97	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6115-BS	C0151271.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA90040-1, FA90040-2, FA90040-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	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%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3323-BS	2P82449.D	1	10/25/21	CF	n/a	n/a	V2P3323

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

FA90040-5, FA90040-7, FA90040-8, FA90040-9, FA90040-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	132	106	50-147
71-43-2	Benzene	25	28.4	114	81-122
75-27-4	Bromodichloromethane	25	28.4	114	79-123
75-25-2	Bromoform	25	26.4	106	66-123
78-93-3	2-Butanone (MEK)	125	131	105	56-143
75-15-0	Carbon Disulfide	25	25.0	100	66-148
56-23-5	Carbon Tetrachloride	25	29.1	116	76-136
108-90-7	Chlorobenzene	25	27.0	108	82-124
75-00-3	Chloroethane	25	21.5	86	62-144
67-66-3	Chloroform	25	27.5	110	80-124
124-48-1	Dibromochloromethane	25	25.7	103	78-122
75-34-3	1,1-Dichloroethane	25	29.0	116	81-122
107-06-2	1,2-Dichloroethane	25	26.4	106	75-125
75-35-4	1,1-Dichloroethylene	25	30.0	120	78-137
156-59-2	cis-1,2-Dichloroethylene	25	28.5	114	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.4	110	76-127
78-87-5	1,2-Dichloropropane	25	26.7	107	76-124
10061-01-5	cis-1,3-Dichloropropene	25	28.3	113	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.8	107	80-120
100-41-4	Ethylbenzene	25	26.0	104	81-121
591-78-6	2-Hexanone	125	125	100	61-129
74-83-9	Methyl Bromide	25	25.2	101	59-143
74-87-3	Methyl Chloride	25	21.6	86	50-159
75-09-2	Methylene Chloride	25	23.5	94	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	126	101	66-122
100-42-5	Styrene	25	25.7	103	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.2	97	72-120
127-18-4	Tetrachloroethylene	25	25.1	100	76-135
108-88-3	Toluene	25	26.0	104	80-120
71-55-6	1,1,1-Trichloroethane	25	29.2	117	75-130
79-00-5	1,1,2-Trichloroethane	25	24.8	99	76-119
79-01-6	Trichloroethylene	25	27.5	110	81-126
75-01-4	Vinyl Chloride	25	23.2	93	69-159
1330-20-7	Xylene (total)	75	79.8	106	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3323-BS	2P82449.D	1	10/25/21	CF	n/a	n/a	V2P3323

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

FA90040-5, FA90040-7, FA90040-8, FA90040-9, FA90040-10

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1618-BS	1A39097.D	1	10/26/21	CF	n/a	n/a	V1A1618

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

FA90040-4, FA90040-5, FA90040-6, FA90040-7, FA90040-8, FA90040-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	97.8	78	50-147
71-43-2	Benzene	25	22.2	89	81-122
75-27-4	Bromodichloromethane	25	22.3	89	79-123
75-25-2	Bromoform	25	22.7	91	66-123
78-93-3	2-Butanone (MEK)	125	104	83	56-143
75-15-0	Carbon Disulfide	25	18.5	74	66-148
56-23-5	Carbon Tetrachloride	25	23.2	93	76-136
108-90-7	Chlorobenzene	25	25.1	100	82-124
75-00-3	Chloroethane	25	25.8	103	62-144
67-66-3	Chloroform	25	21.7	87	80-124
124-48-1	Dibromochloromethane	25	22.4	90	78-122
75-34-3	1,1-Dichloroethane	25	23.4	94	81-122
107-06-2	1,2-Dichloroethane	25	21.2	85	75-125
75-35-4	1,1-Dichloroethylene	25	23.5	94	78-137
156-59-2	cis-1,2-Dichloroethylene	25	22.2	89	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.3	89	76-127
78-87-5	1,2-Dichloropropane	25	22.2	89	76-124
10061-01-5	cis-1,3-Dichloropropene	25	21.7	87	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	80-120
100-41-4	Ethylbenzene	25	24.9	100	81-121
591-78-6	2-Hexanone	125	117	94	61-129
74-83-9	Methyl Bromide	25	23.5	94	59-143
74-87-3	Methyl Chloride	25	31.2	125	50-159
75-09-2	Methylene Chloride	25	19.2	77	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	116	93	66-122
100-42-5	Styrene	25	25.8	103	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	72-120
127-18-4	Tetrachloroethylene	25	24.9	100	76-135
108-88-3	Toluene	25	24.5	98	80-120
71-55-6	1,1,1-Trichloroethane	25	22.9	92	75-130
79-00-5	1,1,2-Trichloroethane	25	24.0	96	76-119
79-01-6	Trichloroethylene	25	22.2	89	81-126
75-01-4	Vinyl Chloride	25	29.3	117	69-159
1330-20-7	Xylene (total)	75	76.0	101	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1618-BS	1A39097.D	1	10/26/21	CF	n/a	n/a	V1A1618

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

FA90040-4, FA90040-5, FA90040-6, FA90040-7, FA90040-8, FA90040-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1618-BS	2A39098.D	1	10/26/21	CF	n/a	n/a	V2A1618

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

FA90040-12, FA90040-13, FA90040-14, FA90040-15, FA90040-16, FA90040-17, FA90040-18, FA90040-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	110	88	50-147
71-43-2	Benzene	25	23.4	94	81-122
75-27-4	Bromodichloromethane	25	22.7	91	79-123
75-25-2	Bromoform	25	23.6	94	66-123
78-93-3	2-Butanone (MEK)	125	107	86	56-143
75-15-0	Carbon Disulfide	25	20.7	83	66-148
56-23-5	Carbon Tetrachloride	25	24.8	99	76-136
108-90-7	Chlorobenzene	25	26.4	106	82-124
75-00-3	Chloroethane	25	22.1	88	62-144
67-66-3	Chloroform	25	23.1	92	80-124
124-48-1	Dibromochloromethane	25	23.7	95	78-122
75-34-3	1,1-Dichloroethane	25	24.8	99	81-122
107-06-2	1,2-Dichloroethane	25	22.2	89	75-125
75-35-4	1,1-Dichloroethylene	25	24.9	100	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.0	96	76-127
78-87-5	1,2-Dichloropropane	25	23.0	92	76-124
10061-01-5	cis-1,3-Dichloropropene	25	21.4	86	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	80-120
100-41-4	Ethylbenzene	25	26.5	106	81-121
591-78-6	2-Hexanone	125	125	100	61-129
74-83-9	Methyl Bromide	25	23.4	94	59-143
74-87-3	Methyl Chloride	25	31.9	128	50-159
75-09-2	Methylene Chloride	25	19.5	78	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	121	97	66-122
100-42-5	Styrene	25	25.0	100	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	25.1	100	72-120
127-18-4	Tetrachloroethylene	25	26.3	105	76-135
108-88-3	Toluene	25	26.1	104	80-120
71-55-6	1,1,1-Trichloroethane	25	23.7	95	75-130
79-00-5	1,1,2-Trichloroethane	25	24.9	100	76-119
79-01-6	Trichloroethylene	25	23.4	94	81-126
75-01-4	Vinyl Chloride	25	29.3	117	69-159
1330-20-7	Xylene (total)	75	80.9	108	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1618-BS	2A39098.D	1	10/26/21	CF	n/a	n/a	V2A1618

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

FA90040-12, FA90040-13, FA90040-14, FA90040-15, FA90040-16, FA90040-17, FA90040-18, FA90040-19

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	107%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6117-BS	C0151340.D	1	10/27/21	LV	n/a	n/a	VC6117

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

FA90040-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	127	102	50-147
71-43-2	Benzene	25	24.8	99	81-122
75-27-4	Bromodichloromethane	25	23.5	94	79-123
75-25-2	Bromoform	25	22.3	89	66-123
78-93-3	2-Butanone (MEK)	125	131	105	56-143
75-15-0	Carbon Disulfide	25	22.2	89	66-148
56-23-5	Carbon Tetrachloride	25	25.3	101	76-136
108-90-7	Chlorobenzene	25	23.0	92	82-124
75-00-3	Chloroethane	25	27.1	108	62-144
67-66-3	Chloroform	25	24.3	97	80-124
124-48-1	Dibromochloromethane	25	21.5	86	78-122
75-34-3	1,1-Dichloroethane	25	26.0	104	81-122
107-06-2	1,2-Dichloroethane	25	22.6	90	75-125
75-35-4	1,1-Dichloroethylene	25	26.6	106	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.5	98	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.7	103	76-127
78-87-5	1,2-Dichloropropane	25	24.1	96	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.9	100	75-118
10061-02-6	trans-1,3-Dichloropropene	25	22.9	92	80-120
100-41-4	Ethylbenzene	25	23.7	95	81-121
591-78-6	2-Hexanone	125	125	100	61-129
74-83-9	Methyl Bromide	25	17.7	71	59-143
74-87-3	Methyl Chloride	25	28.5	114	50-159
75-09-2	Methylene Chloride	25	21.4	86	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	112	90	66-122
100-42-5	Styrene	25	22.7	91	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	21.5	86	72-120
127-18-4	Tetrachloroethylene	25	24.4	98	76-135
108-88-3	Toluene	25	23.2	93	80-120
71-55-6	1,1,1-Trichloroethane	25	24.5	98	75-130
79-00-5	1,1,2-Trichloroethane	25	22.1	88	76-119
79-01-6	Trichloroethylene	25	24.3	97	81-126
75-01-4	Vinyl Chloride	25	29.2	117	69-159
1330-20-7	Xylene (total)	75	70.8	94	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC6117-BS	C0151340.D	1	10/27/21	LV	n/a	n/a	VC6117

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

FA90040-20

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A1620-BS	1A39209.D	1	10/28/21	CF	n/a	n/a	V1A1620

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

FA90040-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethylene	25	25.7	103	76-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-10MS	C0151295.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10MSD	C0151296.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10 [a]	C0151277.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA90040-1, FA90040-2, FA90040-3

CAS No.	Compound	FA89990-10 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		125	77.8	62	125	73.0	58	6	50-147/21
71-43-2	Benzene	ND		25	28.8	115	25	26.1	104	10	81-122/14
75-27-4	Bromodichloromethane	ND		25	28.3	113	25	26.1	104	8	79-123/19
75-25-2	Bromoform	ND		25	23.8	95	25	21.4	86	11	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	84.4	68	125	74.5	60	12	56-143/18
75-15-0	Carbon Disulfide	ND		25	24.4	98	25	22.4	90	9	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	30.6	122	25	27.4	110	11	76-136/23
108-90-7	Chlorobenzene	ND		25	27.5	110	25	24.9	100	10	82-124/14
75-00-3	Chloroethane	ND		25	26.4	106	25	24.9	100	6	62-144/20
67-66-3	Chloroform	ND		25	27.6	110	25	26.4	106	4	80-124/15
124-48-1	Dibromochloromethane	ND		25	26.5	106	25	24.0	96	10	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	30.7	123*	25	28.2	113	8	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	26.4	106	25	24.4	98	8	75-125/14
75-35-4	1,1-Dichloroethylene	1.7		25	31.4	119	25	29.2	110	7	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.2		25	31.7	122*	25	29.8	114	6	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	29.3	117	25	27.2	109	7	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	28.1	112	25	26.5	106	6	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.8	107	25	25.0	100	7	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.3	109	25	24.1	96	12	80-120/22
100-41-4	Ethylbenzene	ND		25	28.0	112	25	25.0	100	11	81-121/14
591-78-6	2-Hexanone	ND		125	87.0	70	125	80.2	64	8	61-129/18
74-83-9	Methyl Bromide	2.5	J	25	32.2	119	25	31.0	114	4	59-143/19
74-87-3	Methyl Chloride	ND		25	20.7	83	25	20.6	82	0	50-159/19
75-09-2	Methylene Chloride	ND		25	24.8	99	25	21.9	88	12	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	90.3	72	125	82.0	66	10	66-122/16
100-42-5	Styrene	ND		25	27.0	108	25	24.9	100	8	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.3	89	25	19.4	78	14	72-120/14
127-18-4	Tetrachloroethylene	85.9		25	126	160* [b]	25	127	164* [b]	1	76-135/16
108-88-3	Toluene	0.42	J	25	28.3	112	25	26.5	104	7	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	29.1	116	25	27.4	110	6	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	25.4	102	25	23.0	92	10	76-119/14
79-01-6	Trichloroethylene	ND		25	29.2	117	25	28.0	112	4	81-126/15
75-01-4	Vinyl Chloride	ND		25	27.3	109	25	24.8	99	10	69-159/18
1330-20-7	Xylene (total)	ND		75	83.3	111	75	75.3	100	10	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89990-10MS	C0151295.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10MSD	C0151296.D	1	10/25/21	LV	n/a	n/a	VC6115
FA89990-10 [a]	C0151277.D	1	10/25/21	LV	n/a	n/a	VC6115

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

FA90040-1, FA90040-2, FA90040-3

CAS No.	Surrogate Recoveries	MS	MSD	FA89990-10	Limits
1868-53-7	Dibromofluoromethane	100%	104%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	100%	79-125%
2037-26-5	Toluene-D8	99%	98%	95%	85-112%
460-00-4	4-Bromofluorobenzene	101%	99%	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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89845-2MS	2P82491.D	50	10/26/21	CF	n/a	n/a	V2P3323
FA89845-2MSD	2P82492.D	50	10/26/21	CF	n/a	n/a	V2P3323
FA89845-2	2P82459.D	50	10/25/21	CF	n/a	n/a	V2P3323

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

FA90040-5, FA90040-7, FA90040-8, FA90040-9, FA90040-10

CAS No.	Compound	FA89845-2 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		6250	5970	96	6250	6140	98	3	50-147/21
71-43-2	Benzene	706		1250	2270	125*	1250	2070	109	9	81-122/14
75-27-4	Bromodichloromethane	ND		1250	1290	103	1250	1300	104	1	79-123/19
75-25-2	Bromoform	ND		1250	1330	106	1250	1250	100	6	66-123/21
78-93-3	2-Butanone (MEK)	ND		6250	5550	89	6250	5630	90	1	56-143/18
75-15-0	Carbon Disulfide	ND		1250	1090	87	1250	1110	89	2	66-148/23
56-23-5	Carbon Tetrachloride	ND		1250	1260	101	1250	1290	103	2	76-136/23
108-90-7	Chlorobenzene	ND		1250	1360	109	1250	1300	104	5	82-124/14
75-00-3	Chloroethane	ND		1250	1190	95	1250	1330	106	11	62-144/20
67-66-3	Chloroform	ND		1250	1280	102	1250	1240	99	3	80-124/15
124-48-1	Dibromochloromethane	ND		1250	1240	99	1250	1280	102	3	78-122/19
75-34-3	1,1-Dichloroethane	ND		1250	1340	107	1250	1310	105	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		1250	1240	99	1250	1180	94	5	75-125/14
75-35-4	1,1-Dichloroethylene	ND		1250	1370	110	1250	1330	106	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1290	103	1250	1230	98	5	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1240	99	1250	1230	98	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		1250	1240	99	1250	1200	96	3	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1240	99	1250	1200	96	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1260	101	1250	1250	100	1	80-120/22
100-41-4	Ethylbenzene	3250		1250	6310	245* [a]	1250	5080	146* [a]	22*	81-121/14
591-78-6	2-Hexanone	ND		6250	6040	97	6250	6060	97	0	61-129/18
74-83-9	Methyl Bromide	ND		1250	869	70	1250	1080	86	22*	59-143/19
74-87-3	Methyl Chloride	ND		1250	965	77	1250	1090	87	12	50-159/19
75-09-2	Methylene Chloride	ND		1250	1140	91	1250	1150	92	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		6250	6020	96	6250	6040	97	0	66-122/16
100-42-5	Styrene	ND		1250	1350	108	1250	1300	104	4	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1240	99	1250	1270	102	2	72-120/14
127-18-4	Tetrachloroethylene	ND		1250	1210	97	1250	1190	95	2	76-135/16
108-88-3	Toluene	215		1250	1570	108	1250	1470	100	7	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		1250	1320	106	1250	1270	102	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		1250	1190	95	1250	1180	94	1	76-119/14
79-01-6	Trichloroethylene	ND		1250	1210	97	1250	1210	97	0	81-126/15
75-01-4	Vinyl Chloride	ND		1250	1070	86	1250	1180	94	10	69-159/18
1330-20-7	Xylene (total)	4490		3750	10500	160*	3750	9250	127*	13	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89845-2MS	2P82491.D	50	10/26/21	CF	n/a	n/a	V2P3323
FA89845-2MSD	2P82492.D	50	10/26/21	CF	n/a	n/a	V2P3323
FA89845-2	2P82459.D	50	10/25/21	CF	n/a	n/a	V2P3323

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

FA90040-5, FA90040-7, FA90040-8, FA90040-9, FA90040-10

CAS No.	Surrogate Recoveries	MS	MSD	FA89845-2	Limits
1868-53-7	Dibromofluoromethane	97%	99%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	102%	96%	79-125%
2037-26-5	Toluene-D8	101%	100%	99%	85-112%
460-00-4	4-Bromofluorobenzene	96%	99%	101%	83-118%

(a) 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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89927-3MS	1A39143.D	2	10/27/21	CF	n/a	n/a	V1A1618
FA89927-3MSD	1A39145.D	2	10/27/21	CF	n/a	n/a	V1A1618
FA89927-3	1A39137.D	2	10/26/21	CF	n/a	n/a	V1A1618

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

FA90040-4, FA90040-5, FA90040-6, FA90040-7, FA90040-8, FA90040-11

CAS No.	Compound	FA89927-3 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		250	199	80	250	189	76	5	50-147/21
71-43-2	Benzene	ND		50	45.7	91	50	44.6	89	2	81-122/14
75-27-4	Bromodichloromethane	ND		50	44.2	88	50	43.2	86	2	79-123/19
75-25-2	Bromoform	ND		50	45.2	90	50	44.9	90	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		250	212	85	250	203	81	4	56-143/18
75-15-0	Carbon Disulfide	ND		50	36.0	72	50	35.3	71	2	66-148/23
56-23-5	Carbon Tetrachloride	ND		50	45.5	91	50	44.9	90	1	76-136/23
108-90-7	Chlorobenzene	ND		50	51.9	104	50	50.1	100	4	82-124/14
75-00-3	Chloroethane	ND		50	50.0	100	50	52.9	106	6	62-144/20
67-66-3	Chloroform	ND		50	44.9	90	50	43.7	87	3	80-124/15
124-48-1	Dibromochloromethane	ND		50	45.1	90	50	44.4	89	2	78-122/19
75-34-3	1,1-Dichloroethane	ND		50	47.7	95	50	47.0	94	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		50	43.2	86	50	42.5	85	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	47.8	96	50	47.1	94	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		50	45.9	92	50	45.1	90	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.1	J	50	46.4	91	50	44.9	88	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	45.4	91	50	43.1	86	5	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		50	40.9	82	50	40.5	81	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	49.9	100	50	48.8	98	2	80-120/22
100-41-4	Ethylbenzene	ND		50	51.1	102	50	49.6	99	3	81-121/14
591-78-6	2-Hexanone	ND		250	240	96	250	232	93	3	61-129/18
74-83-9	Methyl Bromide	ND		50	45.2	90	50	47.6	95	5	59-143/19
74-87-3	Methyl Chloride	ND		50	63.7	127	50	62.6	125	2	50-159/19
75-09-2	Methylene Chloride	ND		50	41.3	83	50	39.5	79	4	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	235	94	250	231	92	2	66-122/16
100-42-5	Styrene	ND		50	52.7	105	50	50.9	102	3	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	49.2	98	50	47.7	95	3	72-120/14
127-18-4	Tetrachloroethylene	ND		50	49.2	98	50	47.7	95	3	76-135/16
108-88-3	Toluene	ND		50	50.0	100	50	48.5	97	3	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		50	46.5	93	50	44.8	90	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.7	97	50	48.4	97	1	76-119/14
79-01-6	Trichloroethylene	ND		50	45.0	90	50	43.3	87	4	81-126/15
75-01-4	Vinyl Chloride	ND		50	60.8	122	50	58.9	118	3	69-159/18
1330-20-7	Xylene (total)	ND		150	156	104	150	151	101	3	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA89927-3MS	1A39143.D	2	10/27/21	CF	n/a	n/a	V1A1618
FA89927-3MSD	1A39145.D	2	10/27/21	CF	n/a	n/a	V1A1618
FA89927-3	1A39137.D	2	10/26/21	CF	n/a	n/a	V1A1618

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

FA90040-4, FA90040-5, FA90040-6, FA90040-7, FA90040-8, FA90040-11

CAS No.	Surrogate Recoveries	MS	MSD	FA89927-3	Limits
1868-53-7	Dibromofluoromethane	97%	98%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	101%	79-125%
2037-26-5	Toluene-D8	105%	105%	105%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA90040-12MS	2A39144.D	200	10/27/21	CF	n/a	n/a	V2A1618
FA90040-12MSD	2A39146.D	200	10/27/21	CF	n/a	n/a	V2A1618
FA90040-12 [a]	2A39128.D	200	10/26/21	CF	n/a	n/a	V2A1618

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

FA90040-12, FA90040-13, FA90040-14, FA90040-15, FA90040-16, FA90040-17, FA90040-18, FA90040-19

CAS No.	Compound	FA90040-12 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	22000	88	25000	21800	87	1	50-147/21
71-43-2	Benzene	ND		5000	4560	91	5000	4590	92	1	81-122/14
75-27-4	Bromodichloromethane	ND		5000	4400	88	5000	4430	89	1	79-123/19
75-25-2	Bromoform	ND		5000	4570	91	5000	4670	93	2	66-123/21
78-93-3	2-Butanone (MEK)	ND		25000	21300	85	25000	21300	85	0	56-143/18
75-15-0	Carbon Disulfide	ND		5000	3740	75	5000	3770	75	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		5000	4710	94	5000	4530	91	4	76-136/23
108-90-7	Chlorobenzene	ND		5000	5120	102	5000	5090	102	1	82-124/14
75-00-3	Chloroethane	ND		5000	5430	109	5000	5360	107	1	62-144/20
67-66-3	Chloroform	ND		5000	4490	90	5000	4480	90	0	80-124/15
124-48-1	Dibromochloromethane	ND		5000	4500	90	5000	4630	93	3	78-122/19
75-34-3	1,1-Dichloroethane	ND		5000	4780	96	5000	4880	98	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		5000	4350	87	5000	4340	87	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		5000	4720	94	5000	4720	94	0	78-137/18
156-59-2	cis-1,2-Dichloroethylene	464		5000	5050	92	5000	4990	91	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		5000	4570	91	5000	4600	92	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		5000	4510	90	5000	4530	91	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		5000	4010	80	5000	4040	81	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		5000	4760	95	5000	4880	98	2	80-120/22
100-41-4	Ethylbenzene	ND		5000	5080	102	5000	4960	99	2	81-121/14
591-78-6	2-Hexanone	ND		25000	24500	98	25000	24700	99	1	61-129/18
74-83-9	Methyl Bromide	ND		5000	3600	72	5000	4300	86	18	59-143/19
74-87-3	Methyl Chloride	ND		5000	6610	132	5000	6780	136	3	50-159/19
75-09-2	Methylene Chloride	ND		5000	3850	77	5000	3900	78	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25000	24000	96	25000	24400	98	2	66-122/16
100-42-5	Styrene	ND		5000	4880	98	5000	4770	95	2	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		5000	4790	96	5000	4980	100	4	72-120/14
127-18-4	Tetrachloroethylene	14500		5000	20500	120	5000	19900	108	3	76-135/16
108-88-3	Toluene	ND		5000	5030	101	5000	5010	100	0	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		5000	4560	91	5000	4580	92	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		5000	4980	100	5000	5010	100	1	76-119/14
79-01-6	Trichloroethylene	263		5000	4850	92	5000	4820	91	1	81-126/15
75-01-4	Vinyl Chloride	ND		5000	6040	121	5000	6110	122	1	69-159/18
1330-20-7	Xylene (total)	ND		15000	15500	103	15000	15100	101	3	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA90040-12MS	2A39144.D	200	10/27/21	CF	n/a	n/a	V2A1618
FA90040-12MSD	2A39146.D	200	10/27/21	CF	n/a	n/a	V2A1618
FA90040-12 [a]	2A39128.D	200	10/26/21	CF	n/a	n/a	V2A1618

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

FA90040-12, FA90040-13, FA90040-14, FA90040-15, FA90040-16, FA90040-17, FA90040-18, FA90040-19

CAS No.	Surrogate Recoveries	MS	MSD	FA90040-12	Limits
1868-53-7	Dibromofluoromethane	97%	96%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	96%	100%	79-125%
2037-26-5	Toluene-D8	106%	107%	107%	85-112%
460-00-4	4-Bromofluorobenzene	99%	101%	99%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD33536-3MS	C0151364.D	1	10/27/21	LV	n/a	n/a	VC6117
JD33536-3MSD	C0151365.D	1	10/27/21	LV	n/a	n/a	VC6117
JD33536-3	C0151358.D	1	10/27/21	LV	n/a	n/a	VC6117

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

FA90040-20

CAS No.	Compound	JD33536-3 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		125	118	94	125	117	94	1	50-147/21
71-43-2	Benzene	ND		25	22.4	90	25	22.1	88	1	81-122/14
75-27-4	Bromodichloromethane	ND		25	21.6	86	25	22.1	88	2	79-123/19
75-25-2	Bromoform	ND		25	20.4	82	25	20.5	82	0	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	115	92	125	115	92	0	56-143/18
75-15-0	Carbon Disulfide	ND		25	19.0	76	25	18.9	76	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	23.0	92	25	23.9	96	4	76-136/23
108-90-7	Chlorobenzene	ND		25	20.4	82	25	20.8	83	2	82-124/14
75-00-3	Chloroethane	ND		25	24.7	99	25	24.6	98	0	62-144/20
67-66-3	Chloroform	ND		25	21.8	87	25	22.0	88	1	80-124/15
124-48-1	Dibromochloromethane	ND		25	19.9	80	25	20.1	80	1	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	24.0	96	25	23.9	96	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	21.4	86	25	21.5	86	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	23.0	92	25	23.1	92	0	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.6	94	25	22.6	90	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	23.1	92	25	23.6	94	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	21.9	88	25	21.8	87	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	20.8	83	25	21.1	84	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	20.8	83	25	20.8	83	0	80-120/22
100-41-4	Ethylbenzene	ND		25	21.4	86	25	21.4	86	0	81-121/14
591-78-6	2-Hexanone	ND		125	113	90	125	113	90	0	61-129/18
74-83-9	Methyl Bromide	ND		25	12.7	51*	25	14.6	58*	14	59-143/19
74-87-3	Methyl Chloride	ND		25	22.3	89	25	23.7	95	6	50-159/19
75-09-2	Methylene Chloride	ND		25	19.6	78	25	19.3	77	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	103	82	125	104	83	1	66-122/16
100-42-5	Styrene	ND		25	20.6	82	25	20.3	81	1	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	20.0	80	25	20.7	83	3	72-120/14
127-18-4	Tetrachloroethylene	ND		25	19.9	80	25	20.6	82	3	76-135/16
108-88-3	Toluene	ND		25	21.2	85	25	21.1	84	0	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	22.7	91	25	22.8	91	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	20.2	81	25	20.5	82	1	76-119/14
79-01-6	Trichloroethylene	ND		25	22.6	90	25	21.6	86	5	81-126/15
75-01-4	Vinyl Chloride	ND		25	26.1	104	25	25.7	103	2	69-159/18
1330-20-7	Xylene (total)	ND		75	63.4	85	75	64.4	86	2	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD33536-3MS	C0151364.D	1	10/27/21	LV	n/a	n/a	VC6117
JD33536-3MSD	C0151365.D	1	10/27/21	LV	n/a	n/a	VC6117
JD33536-3	C0151358.D	1	10/27/21	LV	n/a	n/a	VC6117

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

FA90040-20

CAS No.	Surrogate Recoveries	MS	MSD	JD33536-3	Limits
1868-53-7	Dibromofluoromethane	99%	101%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	98%	79-125%
2037-26-5	Toluene-D8	99%	100%	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	99%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD33705-6MS	1A39255.D	10	10/28/21	CF	n/a	n/a	V1A1620
JD33705-6MSD	1A39257.D	10	10/28/21	CF	n/a	n/a	V1A1620
JD33705-6	1A39231.D	2	10/28/21	CF	n/a	n/a	V1A1620

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

FA90040-16

CAS No.	Compound	JD33705-6 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	ND		250	248	99	250	246	98	1	76-135/16

CAS No.	Surrogate Recoveries	MS	MSD	JD33705-6	Limits
1868-53-7	Dibromofluoromethane	98%	97%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	103%	79-125%
2037-26-5	Toluene-D8	106%	105%	104%	85-112%
460-00-4	4-Bromofluorobenzene	100%	99%	94%	83-118%

* = 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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-MB	X078280.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

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: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-MB	X078280.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

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	46%	14-67%
4165-62-2	Phenol-d5	34%	10-50%

Method Blank Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-MB	X078280.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	66%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-BS	X078279.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	31.1	31	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	42.0	84	54-103
95-57-8	2-Chlorophenol	50	40.2	80	52-98
120-83-2	2,4-Dichlorophenol	50	41.4	83	53-103
105-67-9	2,4-Dimethylphenol	50	38.6	77	43-90
51-28-5	2,4-Dinitrophenol	100	69.8	70	44-112
534-52-1	4,6-Dinitro-o-cresol	100	85.5	86	66-121
95-48-7	2-Methylphenol	50	38.8	78	43-90
	3&4-Methylphenol	100	82.4	82	36-88
88-75-5	2-Nitrophenol	50	40.7	81	53-102
100-02-7	4-Nitrophenol	100	43.9	44	18-62
87-86-5	Pentachlorophenol	100	69.0	69	61-115
108-95-2	Phenol	50	27.4	55	19-56
95-95-4	2,4,5-Trichlorophenol	50	41.6	83	62-109
88-06-2	2,4,6-Trichlorophenol	50	39.4	79	59-107
83-32-9	Acenaphthene	50	40.2	80	61-107
208-96-8	Acenaphthylene	50	42.0	84	60-104
120-12-7	Anthracene	50	40.8	82	65-108
56-55-3	Benzo(a)anthracene	50	42.2	84	66-111
50-32-8	Benzo(a)pyrene	50	40.2	80	62-107
205-99-2	Benzo(b)fluoranthene	50	42.9	86	65-114
191-24-2	Benzo(g,h,i)perylene	50	41.6	83	66-116
207-08-9	Benzo(k)fluoranthene	50	43.6	87	65-114
100-51-6	Benzyl Alcohol	50	34.4	69	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	43.0	86	65-109
85-68-7	Butyl Benzyl Phthalate	50	43.7	87	65-112
86-74-8	Carbazole	50	43.1	86	59-113
106-47-8	4-Chloroaniline	50	39.1	78	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	41.5	83	51-102
111-44-4	bis(2-Chloroethyl)ether	50	41.5	83	53-100
108-60-1	2,2'-Oxybis(1-chloropropane)	50	42.1	84	45-106
91-58-7	2-Chloronaphthalene	50	40.6	81	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	42.3	85	62-105
218-01-9	Chrysene	50	43.7	87	66-111
53-70-3	Dibenzo(a,h)anthracene	50	42.8	86	66-119
132-64-9	Dibenzofuran	50	41.2	82	61-106

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-BS	X078279.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	37.5	75	48-97
541-73-1	1,3-Dichlorobenzene	50	38.2	76	45-95
106-46-7	1,4-Dichlorobenzene	50	37.3	75	45-98
91-94-1	3,3'-Dichlorobenzidine	50	39.7	79	46-117
84-66-2	Diethyl Phthalate	50	42.1	84	64-108
131-11-3	Dimethyl Phthalate	50	42.1	84	63-106
84-74-2	Di-n-butyl Phthalate	50	42.5	85	65-107
117-84-0	Di-n-octyl Phthalate	50	40.7	81	62-118
121-14-2	2,4-Dinitrotoluene	50	43.9	88	61-110
606-20-2	2,6-Dinitrotoluene	50	40.6	81	63-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.8	86	61-117
206-44-0	Fluoranthene	50	40.2	80	63-106
86-73-7	Fluorene	50	41.7	83	62-108
118-74-1	Hexachlorobenzene	50	40.5	81	63-108
87-68-3	Hexachlorobutadiene	50	38.8	78	42-102
77-47-4	Hexachlorocyclopentadiene	50	31.2	62	39-102
67-72-1	Hexachloroethane	50	39.3	79	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.9	82	64-119
78-59-1	Isophorone	50	43.4	87	43-87
91-57-6	2-Methylnaphthalene	50	39.5	79	51-102
91-20-3	Naphthalene	50	39.5	79	47-100
88-74-4	2-Nitroaniline	50	46.1	92	54-128
99-09-2	3-Nitroaniline	50	39.6	79	56-106
100-01-6	4-Nitroaniline	50	39.3	79	55-120
98-95-3	Nitrobenzene	50	40.5	81	50-104
621-64-7	N-Nitrosodi-n-propylamine	50	41.7	83	52-104
86-30-6	N-Nitrosodiphenylamine	50	41.3	83	64-108
85-01-8	Phenanthrene	50	41.5	83	66-110
129-00-0	Pyrene	50	42.8	86	64-113
120-82-1	1,2,4-Trichlorobenzene	50	37.7	75	45-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	14-67%
4165-62-2	Phenol-d5	54%* [a]	10-50%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-BS	X078279.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	80%	33-118%
4165-60-0	Nitrobenzene-d5	79%	42-108%
321-60-8	2-Fluorobiphenyl	77%	40-106%
1718-51-0	Terphenyl-d14	82%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-MS	X078285.D	1	10/22/21	WH	10/22/21	OP87963	SX3158
OP87963-MSD	X078286.D	1	10/22/21	WH	10/22/21	OP87963	SX3158
FA89967-1	X078281.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Compound	FA89967-1 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		196	69.8	36	196	66.2	34	5	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		98	80.9	83	98	67.2	69	19	54-103/23
95-57-8	2-Chlorophenol	ND		98	69.4	71	98	60.1	61	14	52-98/25
120-83-2	2,4-Dichlorophenol	ND		98	78.7	80	98	69.1	70	13	53-103/26
105-67-9	2,4-Dimethylphenol	ND		98	76.3	78	98	64.9	66	16	43-90/27
51-28-5	2,4-Dinitrophenol	ND		196	142	72	196	130	66	9	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		196	174	89	196	161	82	8	66-121/23
95-48-7	2-Methylphenol	ND		98	72.1	74	98	58.3	59	21	43-90/28
	3&4-Methylphenol	ND		196	149	76	196	121	62	21	36-88/28
88-75-5	2-Nitrophenol	ND		98	77.6	79	98	67.9	69	13	53-102/29
100-02-7	4-Nitrophenol	ND		196	84.2	43	196	79.1	40	6	18-62/33
87-86-5	Pentachlorophenol	ND		196	141	72	196	125	64	12	61-115/26
108-95-2	Phenol	ND		98	41.8	43	98	33.5	34	22	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		98	78.1	80	98	68.6	70	13	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		98	76.2	78	98	68.7	70	10	59-107/23
83-32-9	Acenaphthene	ND		98	80.8	82	98	69.7	71	15	61-107/22
208-96-8	Acenaphthylene	ND		98	84.0	86	98	73.3	75	14	60-104/22
120-12-7	Anthracene	ND		98	85.5	87	98	75.0	77	13	65-108/20
56-55-3	Benzo(a)anthracene	ND		98	87.1	89	98	78.4	80	11	66-111/22
50-32-8	Benzo(a)pyrene	ND		98	80.1	82	98	72.4	74	10	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		98	85.5	87	98	76.8	78	11	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		98	82.6	84	98	74.7	76	10	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		98	89.3	91	98	79.2	81	12	65-114/24
100-51-6	Benzyl Alcohol	ND		98	68.5	70	98	59.9	61	13	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		98	87.6	89	98	76.6	78	13	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		98	89.8	92	98	79.5	81	12	65-112/24
86-74-8	Carbazole	ND		98	87.8	90	98	79.3	81	10	59-113/21
106-47-8	4-Chloroaniline	ND		98	72.8	74	98	64.4	66	12	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		98	80.5	82	98	71.3	73	12	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		98	84.5	86	98	70.8	72	18	53-100/27
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		98	84.5	86	98	71.3	73	17	45-106/26
91-58-7	2-Chloronaphthalene	ND		98	80.4	82	98	69.2	71	15	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		98	84.7	86	98	73.8	75	14	62-105/20
218-01-9	Chrysene	ND		98	89.4	91	98	80.4	82	11	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		98	86.1	88	98	72.0	73	18	66-119/24
132-64-9	Dibenzofuran	ND		98	81.8	83	98	72.5	74	12	61-106/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-MS	X078285.D	1	10/22/21	WH	10/22/21	OP87963	SX3158
OP87963-MSD	X078286.D	1	10/22/21	WH	10/22/21	OP87963	SX3158
FA89967-1	X078281.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Compound	FA89967-1 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		98	76.9	78	98	64.8	66	17	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		98	77.7	79	98	65.8	67	17	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		98	75.3	77	98	63.5	65	17	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		98	74.7	76	98	69.7	71	7	46-117/29
84-66-2	Diethyl Phthalate	ND		98	85.6	87	98	74.8	76	13	64-108/21
131-11-3	Dimethyl Phthalate	ND		98	84.2	86	98	73.6	75	13	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		98	88.7	90	98	79.1	81	11	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		98	83.3	85	98	74.2	76	12	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		98	90.1	92	98	79.6	81	12	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		98	82.4	84	98	72.8	74	12	63-108/21
117-81-7	bis(2-Ethylhexyl)phthalate	ND		98	89.1	91	98	78.6	80	13	61-117/23
206-44-0	Fluoranthene	ND		98	84.0	86	98	74.2	76	12	63-106/21
86-73-7	Fluorene	ND		98	83.6	85	98	72.6	74	14	62-108/20
118-74-1	Hexachlorobenzene	ND		98	82.8	84	98	73.6	75	12	63-108/22
87-68-3	Hexachlorobutadiene	ND		98	77.3	79	98	64.9	66	17	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		98	59.9	61	98	52.6	54	13	39-102/29
67-72-1	Hexachloroethane	ND		98	79.2	81	98	70.0	71	12	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		98	84.5	86	98	75.0	77	12	64-119/24
78-59-1	Isophorone	ND		98	85.5	87	98	76.5	78	11	43-87/25
91-57-6	2-Methylnaphthalene	ND		98	77.8	79	98	65.6	67	17	51-102/26
91-20-3	Naphthalene	ND		98	78.5	80	98	66.7	68	16	47-100/29
88-74-4	2-Nitroaniline	ND		98	91.0	93	98	81.6	83	11	54-128/24
99-09-2	3-Nitroaniline	ND		98	77.2	79	98	69.9	71	10	56-106/27
100-01-6	4-Nitroaniline	ND		98	80.3	82	98	71.5	73	12	55-120/24
98-95-3	Nitrobenzene	ND		98	79.9	81	98	68.1	69	16	50-104/28
621-64-7	N-Nitrosodi-n-propylamine	ND		98	85.4	87	98	79.1	81	8	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		98	86.2	88	98	75.8	77	13	64-108/23
85-01-8	Phenanthrene	ND		98	85.6	87	98	76.3	78	11	66-110/21
129-00-0	Pyrene	ND		98	87.6	89	98	79.0	81	10	64-113/23
120-82-1	1,2,4-Trichlorobenzene	ND		98	74.6	76	98	63.8	65	16	45-97/28

CAS No.	Surrogate Recoveries	MS	MSD	FA89967-1	Limits
367-12-4	2-Fluorophenol	46%	41%	22%	14-67%
4165-62-2	Phenol-d5	39%	32%	17%	10-50%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA90040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP87963-MS	X078285.D	1	10/22/21	WH	10/22/21	OP87963	SX3158
OP87963-MSD	X078286.D	1	10/22/21	WH	10/22/21	OP87963	SX3158
FA89967-1	X078281.D	1	10/22/21	WH	10/22/21	OP87963	SX3158

The QC reported here applies to the following samples: **Method:** SW846 8270E

FA90040-16

CAS No.	Surrogate Recoveries	MS	MSD	FA89967-1	Limits
118-79-6	2,4,6-Tribromophenol	81%	72%	59%	33-118%
4165-60-0	Nitrobenzene-d5	78%	67%	57%	42-108%
321-60-8	2-Fluorobiphenyl	76%	68%	59%	40-106%
1718-51-0	Terphenyl-d14	84%	76%	63%	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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39781
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:				10/27/21		10/27/21	
Metal	RL	IDL	MDL	MB raw	MB final	MB raw	MB final
Aluminum	200	14	14				
Antimony	6.0	1	1	2.2	<6.0	1.5	<6.0
Arsenic	10	1.3	1.3	-0.40	<10	-0.90	<10
Barium	200	1	1				
Beryllium	4.0	.2	.2	0.10	<4.0	0.0	<4.0
Cadmium	5.0	.2	.2	-0.10	<5.0	-0.10	<5.0
Calcium	1000	50	50				
Chromium	10	1	1	0.20	<10	0.90	<10
Cobalt	50	.2	.2				
Copper	25	1	1	0.0	<25	0.70	<25
Iron	300	17	17				
Lead	5.0	1	1.1	0.10	<5.0	1.0	<5.0
Magnesium	5000	35	35				
Manganese	15	.5	1				
Molybdenum	50	.3	.3				
Nickel	40	.4	.4	0.0	<40	0.20	<40
Potassium	10000	200	200				
Selenium	10	2.4	2.9	0.80	<10	-0.20	<10
Silver	10	.7	.7	-0.20	<10	-0.30	<10
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.1	1.4	-1.0	<10	-2.7	<10
Tin	50	.9	1				
Titanium	10	.5	1				
Vanadium	50	.5	.6				
Zinc	20	3	4.4	2.9	<20	6.0	<20

Associated samples MP39781: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39781
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:			10/27/21					10/27/21	
Metal	FA90040-16 Original	DUP	RPD	QC Limits	FA90040-16 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	1.9	0.0	200.0(a)	0-20	1.9	485	500	96.6	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	2020	2000	101.0	80-120
Barium	anr								
Beryllium	0.0	0.0	NC	0-20	0.0	48.6	50	97.2	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	49.3	50	98.6	80-120
Calcium	anr								
Chromium	3.0	3.3	9.5	0-20	3.0	200	200	98.5	80-120
Cobalt	anr								
Copper	0.0	0.0	NC	0-20	0.0	245	250	98.0	80-120
Iron	anr								
Lead	0.0	0.0	NC	0-20	0.0	481	500	96.2	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	0.90	0.70	25.0 (a)	0-20	0.90	506	500	101.0	80-120
Potassium	anr								
Selenium	0.0	0.0	NC	0-20	0.0	1920	2000	96.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	49.6	50	99.2	80-120
Sodium	anr								
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1960	2000	98.0	80-120
Tin									
Titanium									
Vanadium	anr								
Zinc	18.1	18.5	2.2	0-20	18.1	509	500	98.2	80-120

Associated samples MP39781: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39781
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/27/21

Metal	FA90040-16 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	1.9	471	500	93.8	2.9	20
Arsenic	0.0	1940	2000	97.0	4.0	20
Barium	anr					
Beryllium	0.0	48.4	50	96.8	0.4	20
Cadmium	0.0	47.6	50	95.2	3.5	20
Calcium	anr					
Chromium	3.0	198	200	97.5	1.0	20
Cobalt	anr					
Copper	0.0	243	250	97.2	0.8	20
Iron	anr					
Lead	0.0	466	500	93.2	3.2	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	0.90	485	500	96.8	4.2	20
Potassium	anr					
Selenium	0.0	1840	2000	92.0	4.3	20
Silver	0.0	49.0	50	98.0	1.2	20
Sodium	anr					
Strontium						
Thallium	0.0	1900	2000	95.0	3.1	20
Tin						
Titanium						
Vanadium	anr					
Zinc	18.1	493	500	95.0	3.2	20

Associated samples MP39781: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39781
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/27/21

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	472	500	94.4	80-120
Arsenic	1940	2000	97.0	80-120
Barium	anr			
Beryllium	48.4	50	96.8	80-120
Cadmium	47.8	50	95.6	80-120
Calcium	anr			
Chromium	196	200	98.0	80-120
Cobalt	anr			
Copper	242	250	96.8	80-120
Iron	anr			
Lead	465	500	93.0	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	487	500	97.4	80-120
Potassium	anr			
Selenium	1850	2000	92.5	80-120
Silver	48.3	50	96.6	80-120
Sodium	anr			
Strontium				
Thallium	1890	2000	94.5	80-120
Tin				
Titanium				
Vanadium	anr			
Zinc	484	500	96.8	80-120

Associated samples MP39781: FA90040-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39781
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/27/21

Metal	FA90040-16 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	1.90	0.00	100.0(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	3.00	0.00	100.0(a)	0-10
Cobalt	anr			
Copper	0.00	0.00	NC	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	0.900	0.00	100.0(a)	0-10
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Thallium	0.00	6.20	NC	0-10
Tin				
Titanium				
Vanadium	anr			
Zinc	18.1	18.5	2.2	0-10

Associated samples MP39781: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39781
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/27/21

Metal	Sample ml	Final ml	FA90040-16 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	1.9	1.862	99.8	0.2	5	100	97.9	80-120
Arsenic	9.8	10			101.2	0.2	5	100	101.2	80-120
Barium										
Beryllium	9.8	10			50.1	0.2	2.5	50	100.2	80-120
Cadmium	9.8	10			50.1	0.2	2.5	50	100.2	80-120
Calcium										
Chromium	9.8	10	3	2.94	54.2	0.2	2.5	50	102.5	80-120
Cobalt										
Copper	9.8	10			100.5	0.2	5	100	100.5	80-120
Iron										
Lead	9.8	10			48.9	0.2	2.5	50	97.8	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10	.9	.882	102.2	0.2	5	100	101.3	80-120
Potassium										
Selenium	9.8	10			94	0.2	5	100	94.0	80-120
Silver	9.8	10			49.1	0.2	2.5	50	98.2	80-120
Sodium										
Strontium										
Thallium	9.8	10			93.6	0.2	5	100	93.6	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	18.1	17.738	266.6	0.2	12.5	250	99.5	80-120

Associated samples MP39781: FA90040-16

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39784 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date:					10/27/21		10/27/21
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Mercury	0.50	.03	.03	0.013	<0.50	0.031	<0.50

Associated samples MP39784: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39784 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/27/21 10/27/21

Metal	FA90183-1F Original	DUP	RPD	QC Limits	FA90183-1F Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	3.0	3	100.0	80-120

Associated samples MP39784: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39784 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/27/21

Metal	FA90183-1F Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.9	3	96.7	3.4	20

Associated samples MP39784: FA90040-16

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: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39784 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/27/21

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.0	3	100.0	80-120

Associated samples MP39784: FA90040-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA90040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP39784 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/27/21

Metal	FA90183-1F Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP39784: FA90040-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(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 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 FA89990 were collected from October 18-19, 2021 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

Detections of toluene in any sample (except Trip Blank 1 and Trip Blank 2) were qualified "/B/T" due to the presence of the analyte in the sample and associated trip blank samples.

Results of trans-1,3-dichloropropene and methyl bromide were qualified "/M/m" due to recovery below the established criteria of 40-160% in the associated matrix spike sample (1 and 27%, respectively). These qualifiers indicate the results should be considered biased low.

Results of trans-1,3-dichloropropene and methyl bromide were qualified "/M/D" due to the relative percent difference between the associated matrix spike and matrix spike duplicate samples exceeding the established criteria of 35% (195 and 44%, respectively). 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 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 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 FA90040 were collected from October 19-20, 2021 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

Detections of toluene in any sample (except Trip Blank 3 and Trip Blank 4) were qualified "/B/T" due to the presence of the analyte in the sample and associated trip blank samples.

Detections of methyl bromide in any sample (except Trip Blank) were qualified "/B/T" due to the presence of the analyte in the sample and associated trip blank sample.

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 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	µg/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-1	4/13/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	0.94 J	<0.55	<4	**46.1**	<0.6	<0.44	0.85 J	<0.82	<1.4
MW-1	10/19/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	5.2	<0.28	<2	**108**	1.6 /B/T	<0.22	**8.6**	<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)
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	µg/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
MW-2	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.71 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.1	2.1 /B/T	<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)
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	µg/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-3	4/13/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	2.8	<0.55	<4	**137**	<0.6	<0.44	2.5	<0.82	<1.4
MW-3	10/19/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	3.1	<0.55	<4	**117**	2 /B/T	<0.44	2.8	<0.82	<1.4
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	µg/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
MW-3D	4/13/2021	µg/L	<1.2	<1.7	3.7 J	<1.6	<1.2	<2.7	<1.5	7.5	<1.4	<10	**179**	<1.5	<1.1	**7.4**	<2	<3.6
MW-3D	10/19/2021	µg/L	<1.2	<1.7	5.3	<1.6	<1.2	<2.7	<1.5	8.2	<1.4	<10	**235**	<1.5	<1.1	**5.7**	<2	<3.6
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	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

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)
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	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-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	µg/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
MW-5	10/19/2021	µg/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
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	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

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)
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	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	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.82 J	1.6 /B/T	<0.22	<0.35	<0.41	<0.72
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	µg/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-8	4/13/2021	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	5.6	<1.4	<10	**224**	<1.5	<1.1	**32.2**	<2	<3.6
MW-8	10/19/2021	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	10.4	<0.69	<5	**315**	1.3 J/B/T	<0.55	**50.1**	<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)
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	µg/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
MW-9	4/13/2021	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	14.4	<1.4	<10	**156**	<1.5	<1.1	**45.6**	<2	<3.6
MW-9	10/18/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	8	<0.55	<4	**123**	<0.6	<0.44	**36.9**	<0.82	<1.4
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	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

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)
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	µg/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
MW-10	4/13/2021	µg/L	<2.5	<3.4	5.7 J	<3.1	<2.4	<5.3	<3	**105**	<2.8	<20	**66.8**	<3	<2.2	**25.2**	<4.1	<7.2
MW-10	10/18/2021	µg/L	<0.5	<0.68	**30.1**	<0.62	<0.48	<1.1	<0.6	**396**	<0.55	<4	**90.8**	0.76 J/B/T	0.48 J	**94.2**	<0.82	<1.4
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	µg/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-10D	4/13/2021	µg/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-10D	10/18/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.82 J/B/T	<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)
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	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-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	µg/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
MW-12D	4/13/2021	µg/L	<0.25	<0.34	1.7	<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	10/19/2021	µg/L	<0.25	<0.34	0.41 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**31.3**	0.49 J/B/T	<0.22	<0.35	<0.41	<0.72
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	µg/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-13D	4/13/2021	µg/L	<0.5	<0.68	1.9 J	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**116**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-13D	10/19/2021	µg/L	<0.5	<0.68	2.4	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**134**	2.1 /B/T	<0.44	<0.69	<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)
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	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	10/19/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.4 /B/T	<0.22	<0.35	<0.41	<0.72
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	µg/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-14D	4/13/2021	µg/L	<0.25	<0.34	1.1	<0.31	<0.24	<0.53	<0.3	0.62 J	<0.28	<2	**54.8**	<0.3	<0.22	0.55 J	<0.41	<0.72
MW-14D	10/19/2021	µg/L	<0.25	<0.34	0.93 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**47.4**	0.6 J/B/T	<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	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

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)
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	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	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	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	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	µg/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	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

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)
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	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	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	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	10/18/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	4.4 /B/T	<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	**37400**	<75	<55	<86	<100	<180
MW-19	7/15/2020	µg/L	<120	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**29800**	<150	<110	<170	<200	<360
MW-19	10/20/2020	µg/L	**263 J**	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**45600**	<150	<110	<170	<200	<360
MW-19	4/12/2021	µg/L	<120	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**53900**	<150	<110	<170	<200	<360
MW-19	10/18/2021	µg/L	**366 J**	<340	<320	<310	<240	<530	<300	<280	<280	<2000	**47500**	<300	<220	<350	<410	<720
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	µg/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
MW-20	4/12/2021	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	<1.4	<1.4	<10	**222**	<1.5	<1.1	3.1 J	<2	<3.6
MW-20	10/18/2021	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	2.1 J	<0.69	<5	**187**	<0.75	<0.55	3.6	<1	<1.8
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	µg/L	<50	<68	<64	<62	<48	<110	<60	**689**	<55	<400	**13900**	<60	<44	**314**	<82	<140
MW-21	4/14/2021	µg/L	<50	<68	<64	<62	<48	<110	<60	**359**	<55	<400	**13600**	<60	<44	**199 J**	<82	<140
MW-21	10/20/2021	µg/L	<50	<68	<64	<62	<48	<110	<60	**464**	<55	<400	**14500**	<60	<44	**263**	<82	<140

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)
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	µg/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-21D	4/14/2021	µg/L	<0.25	<0.34	0.9 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**27.5**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	10/20/2021	µg/L	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**114**	2.1 /B/T	<0.22	0.69 J	<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	µg/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
MW-22D	4/13/2021	µg/L	<0.25	<0.34	1	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**80.7**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-22D	10/19/2021	µg/L	<0.25	<0.34	1.4	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**89.9**	0.49 J/B/T	<0.22	<0.35	<0.41	<0.72
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	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-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	**2270**	<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	µg/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-24	4/13/2021	µg/L	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	16.8 J	<6.9	<50	**1910**	<7.5	<5.5	<8.6	<10	<18
MW-24	10/19/2021	µg/L	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	<6.9	<6.9	<50	**1230**	<7.5	<5.5	<8.6	<10	<18

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)
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	µg/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-25D	4/13/2021	µg/L	<0.5	<0.68	2.1	<0.62	<0.48	<1.1	<0.6	0.8 J	<0.55	<4	**110**	<0.6	<0.44	0.85 J	<0.82	<1.4
MW-25D	10/19/2021	µg/L	<0.5	<0.68	2.5	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**115**	<0.6	<0.44	<0.69	<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	µg/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
MW-26D	4/13/2021	µg/L	<0.25	<0.34	0.95 J	<0.31	<0.24	<0.53	<0.3	0.88 J	<0.28	<2	**53.3**	<0.3	<0.22	0.83 J	<0.41	<0.72
MW-26D	10/19/2021	µg/L	<0.25	<0.34	0.99 J	<0.31	<0.24	<0.53	<0.3	1	<0.28	<2	**52.4**	0.8 J/B/T	<0.22	1.1	<0.41	<0.72
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	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	10/19/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.5 /B/T	<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	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	10/19/2021	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 J/B/T	<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	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-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	µg/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-30D	4/12/2021	µg/L	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**87.7**	<0.3	<0.22	1.2	<0.41	<0.72
MW-30D	10/19/2021	µg/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	1.2	<0.28	<2	**85.9**	0.42 J/B/T	<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)
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	µg/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-31D	4/12/2021	µg/L	<0.62	<0.85	2.6	<0.78	<0.61	<1.3	<0.75	0.47 J	<0.69	<5	**92.2**	<0.75	<0.55	0.43 J	<1	<1.8
MW-31D	10/19/2021	µg/L	<0.5	<0.68	3.4	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**137**	1.1 J/B/T	<0.44	<0.69	<0.82	<1.4
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	µg/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
MW-32DR	4/13/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**16.6**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-32DR	10/19/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**14.3**	0.92 J/B/T	<0.22	<0.35	<0.41	<0.72
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	µg/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-33D	4/12/2021	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-33D	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	3.7 /B/T	<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	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	4/13/2021	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	10/20/2021	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 /B/T	<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	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	4/13/2021	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	10/20/2021	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 /B/T	<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	µg/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-36D	4/13/2021	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-36D	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	4.1 /B/T	<0.22	<0.35	<0.41	<0.72
MW-37	7/16/2020	µg/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	µg/L	104 J	<85	**95.2 J**	<78	<61	<130	<75	<69	<69	<500	**24700**	<75	<55	<86	<100	<180
MW-37	4/12/2021	µg/L	<62	<85	<81	<78	<61	<130	<75	<69	<69	<500	**17400**	<75	<55	<86	<100	<180
MW-37	10/18/2021	µg/L	<62	<85	**93.5 J**	<78	<61	<130	<75	<69	<69	<500	**16200**	98.7 J/B/T	<55	<86	<100	967
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-01-LC	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.1	<0.3	<0.22	<0.35	<0.41	<0.72
SW-01-LC	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.8	<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-02-LC	4/14/2021	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	10/20/2021	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-03-HMB	4/14/2021	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	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	0.84 J	<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-04-TLC	4/14/2021	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	10/20/2021	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

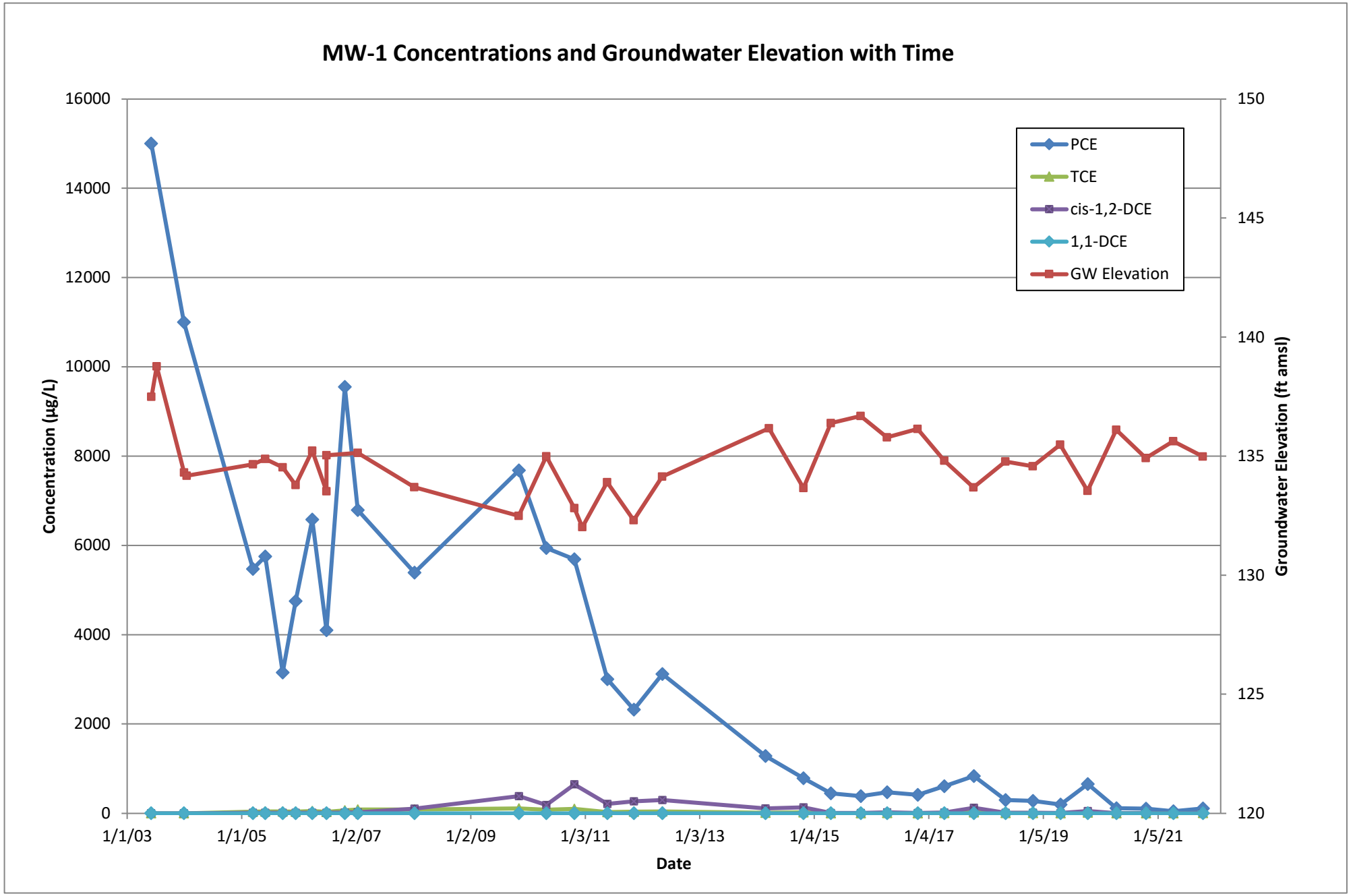
Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
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

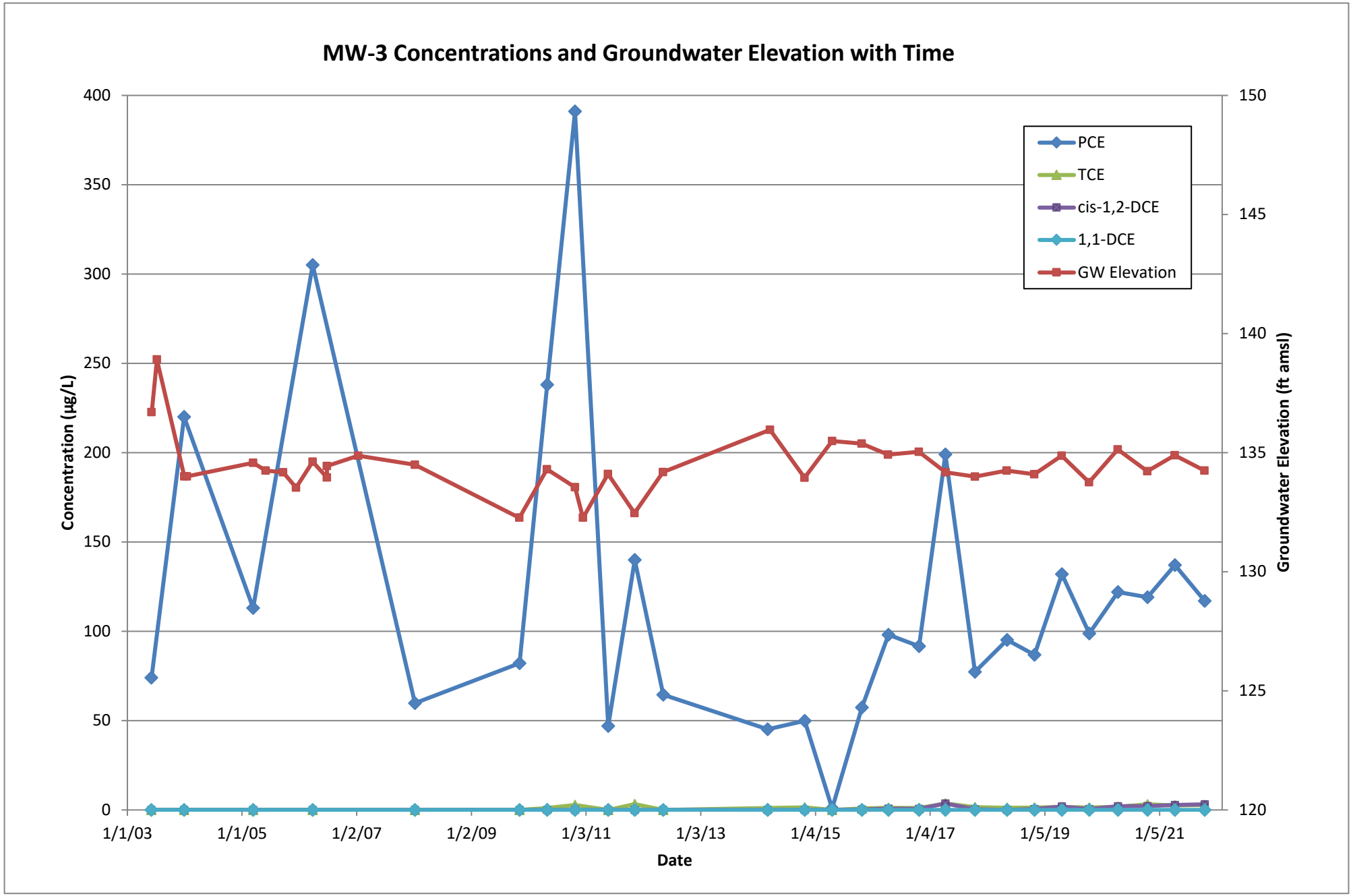
Notes:
µg/L - micrograms per liter NA - Not available/not analyzed NS - No standard

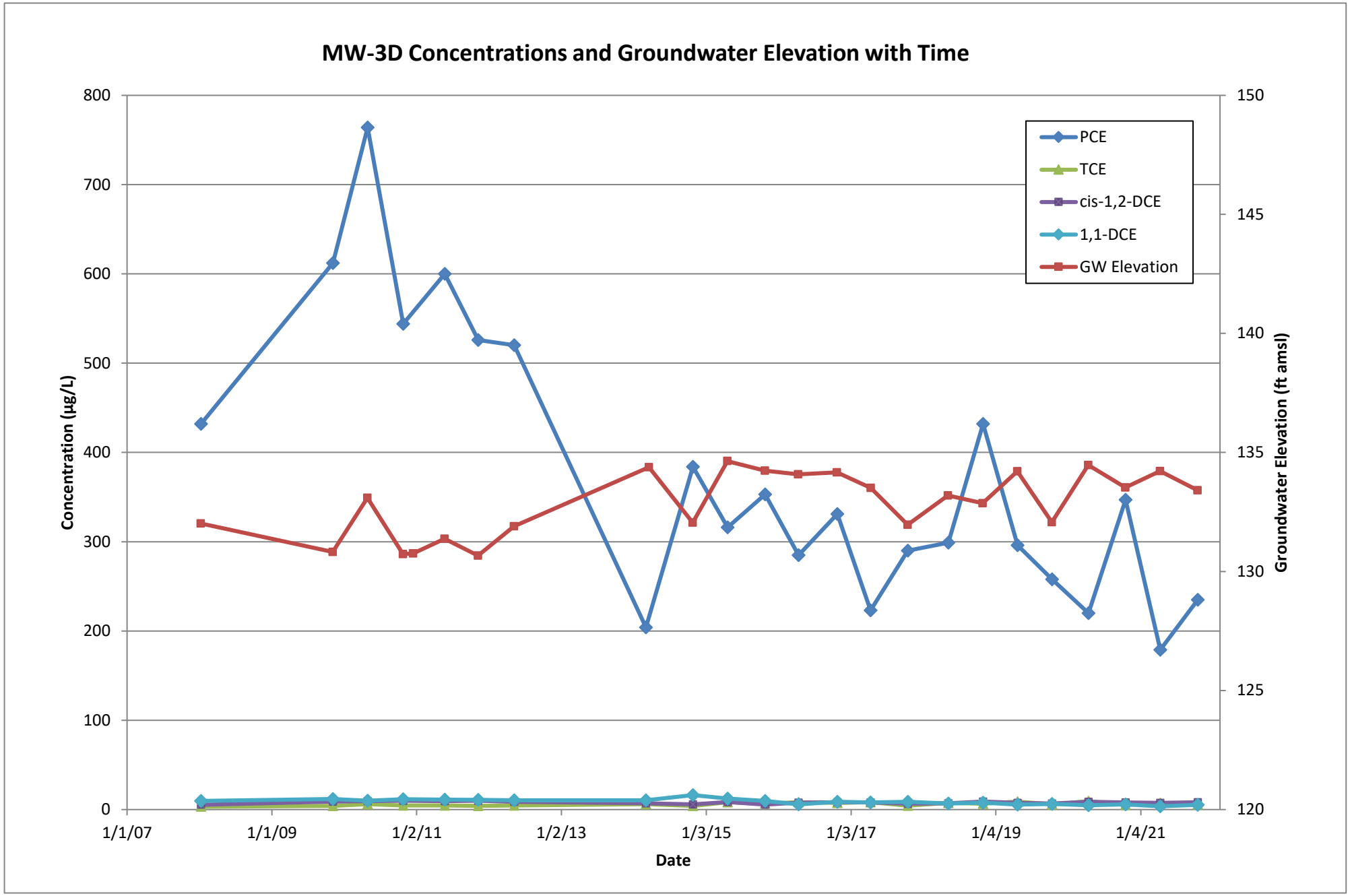
Data Qualifiers:
E - Indicates value exceeds calibration range
J - Estimated concentration above the method detection limit and below the reporting limit.
/J/A - The analyte was positively identified. The quantitation is estimation. Percent difference between the primary and duplicate sample exceeded 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.

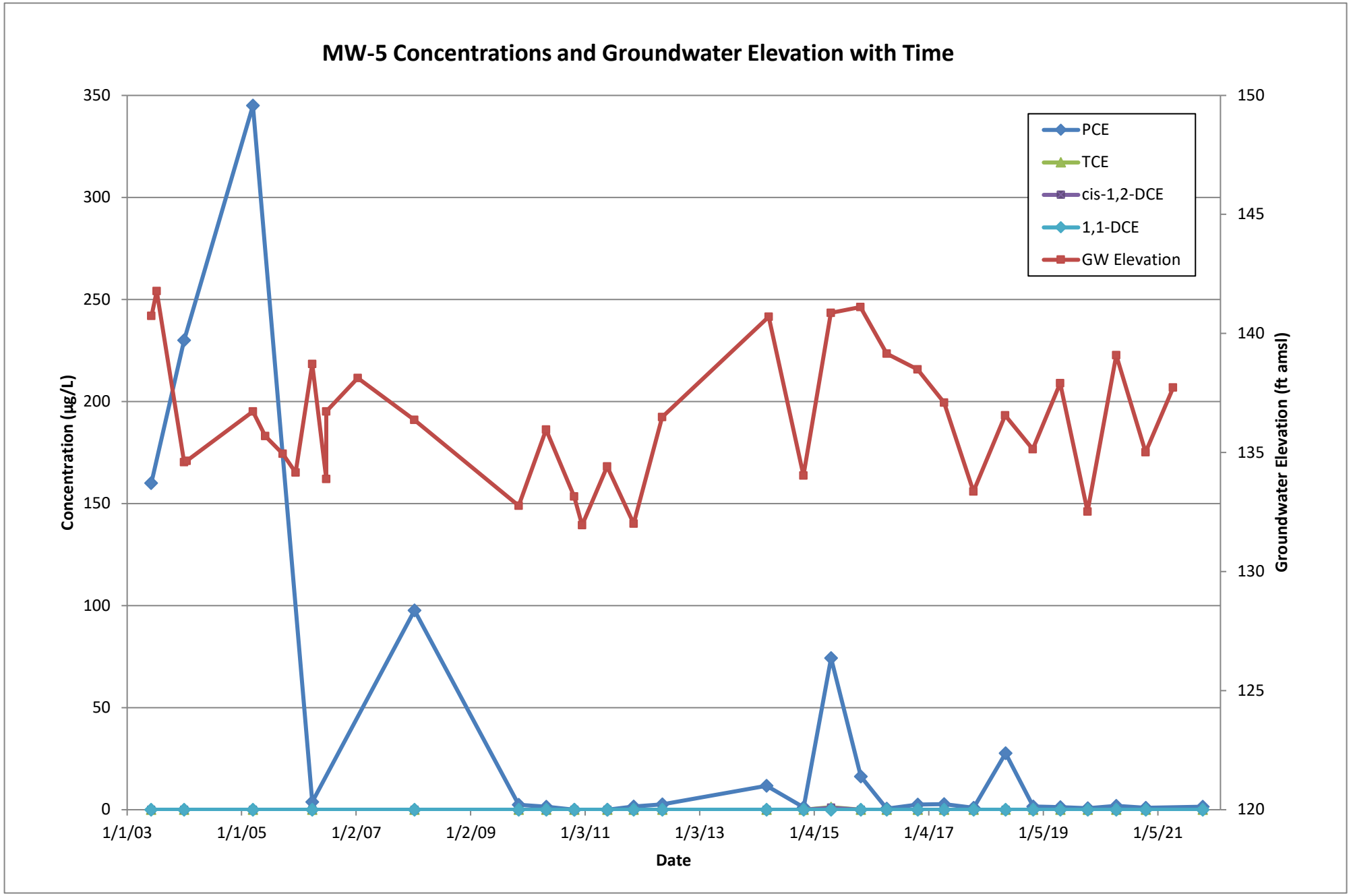
APPENDIX E

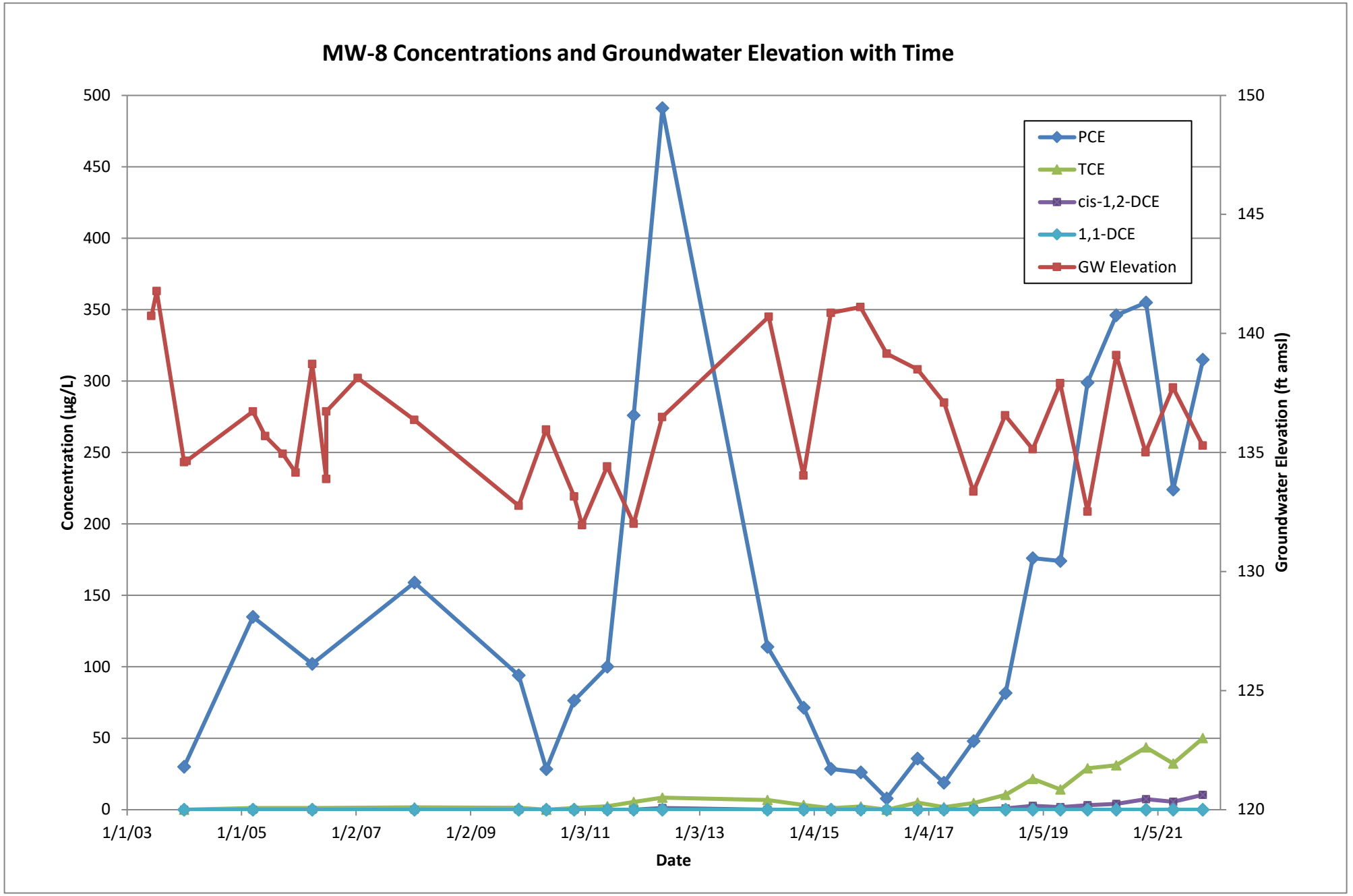
TREND PLOTS

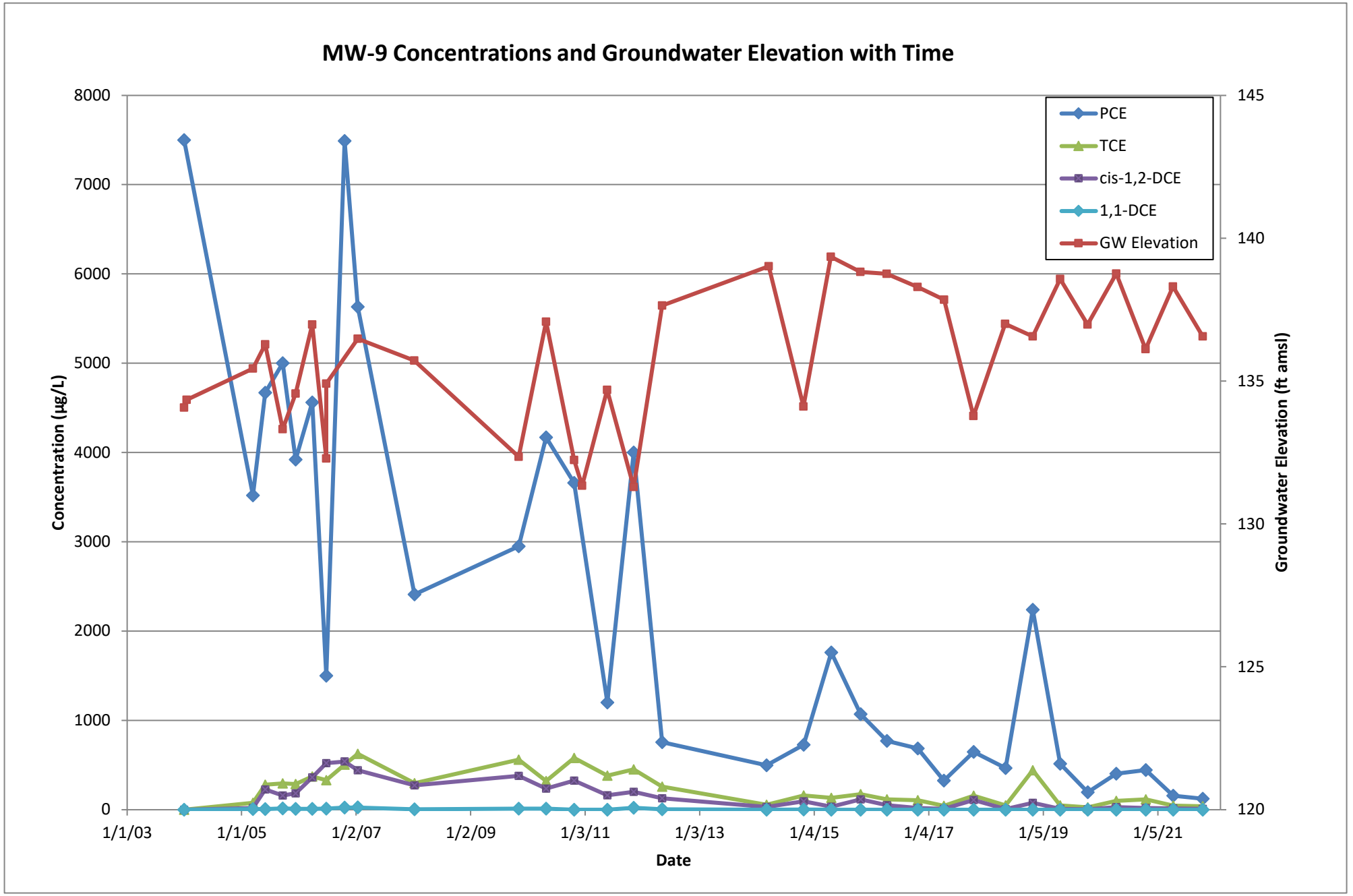

MW-1 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
16000
14000
12000
10000
8000
6000
4000
2000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

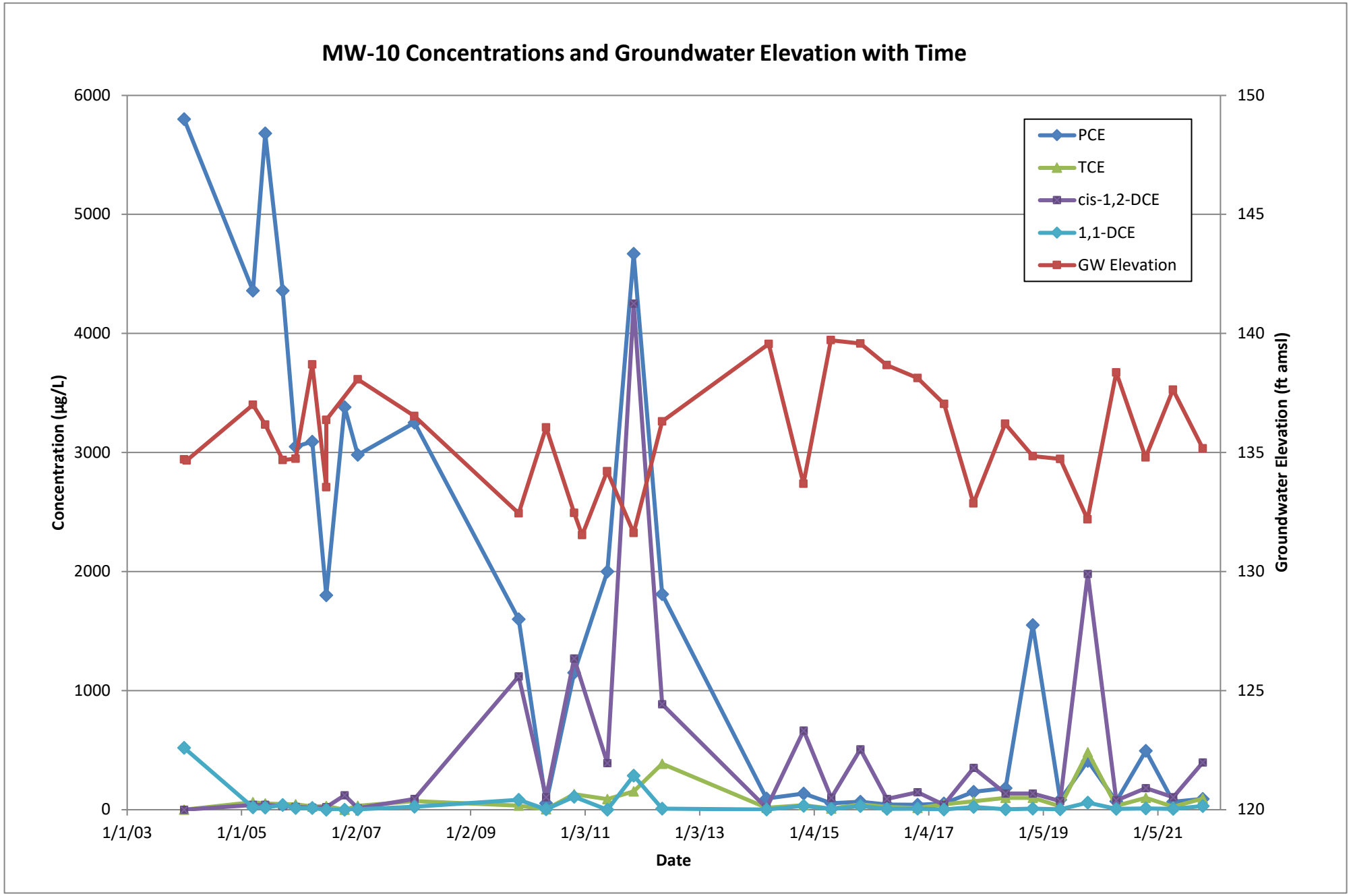

MW-3 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

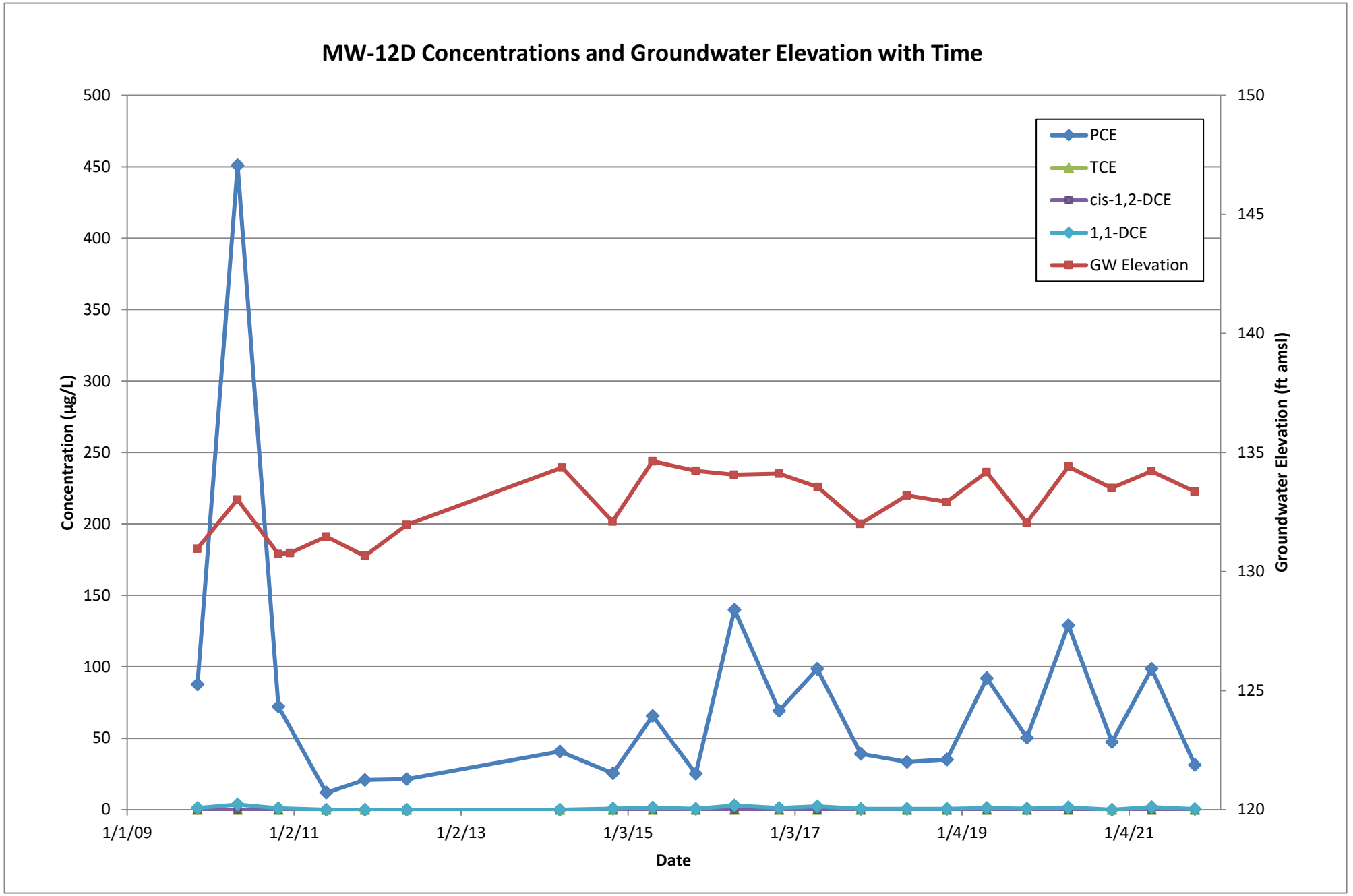

MW-3D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
800
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/07
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21

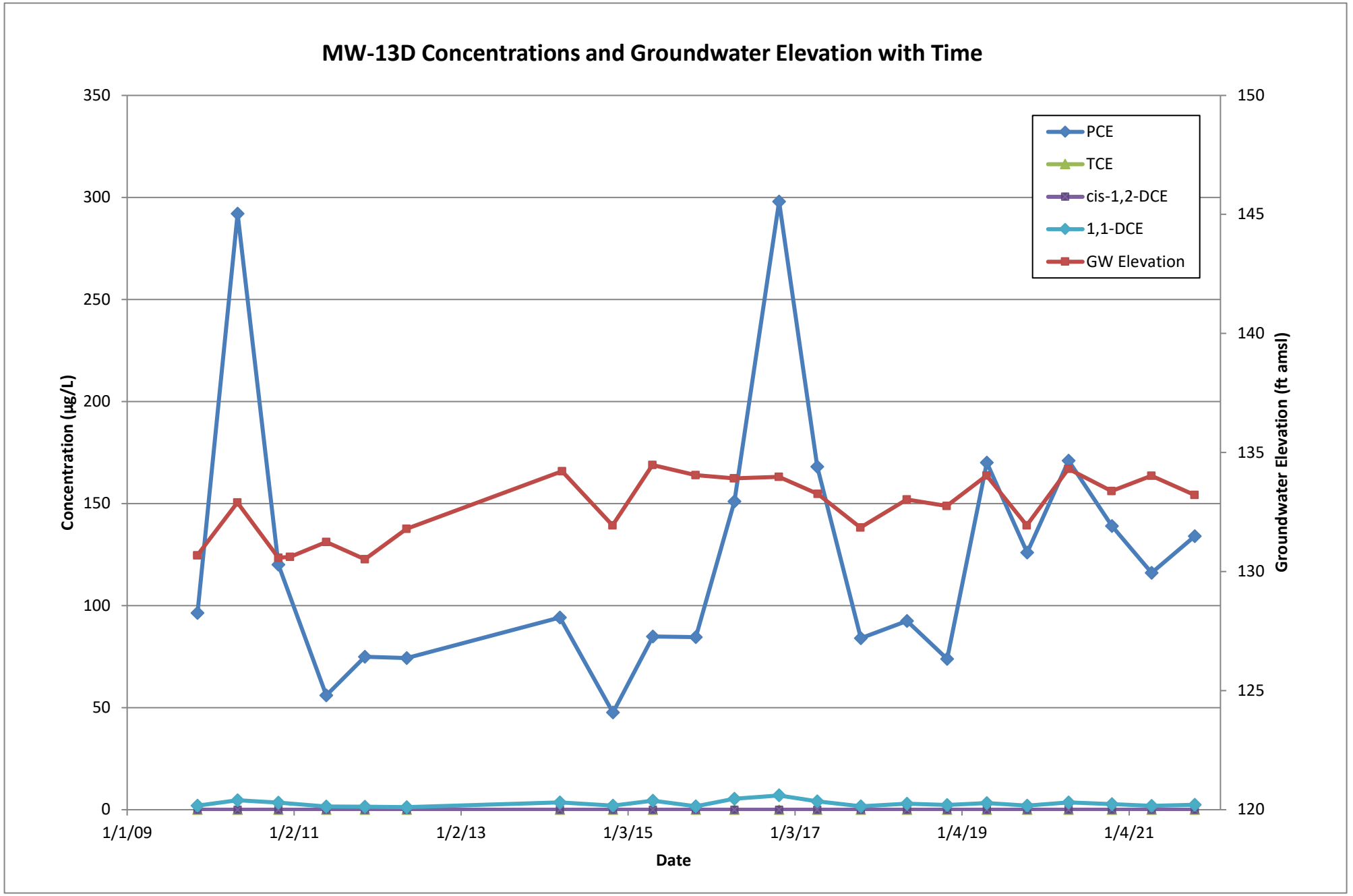

MW-5 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

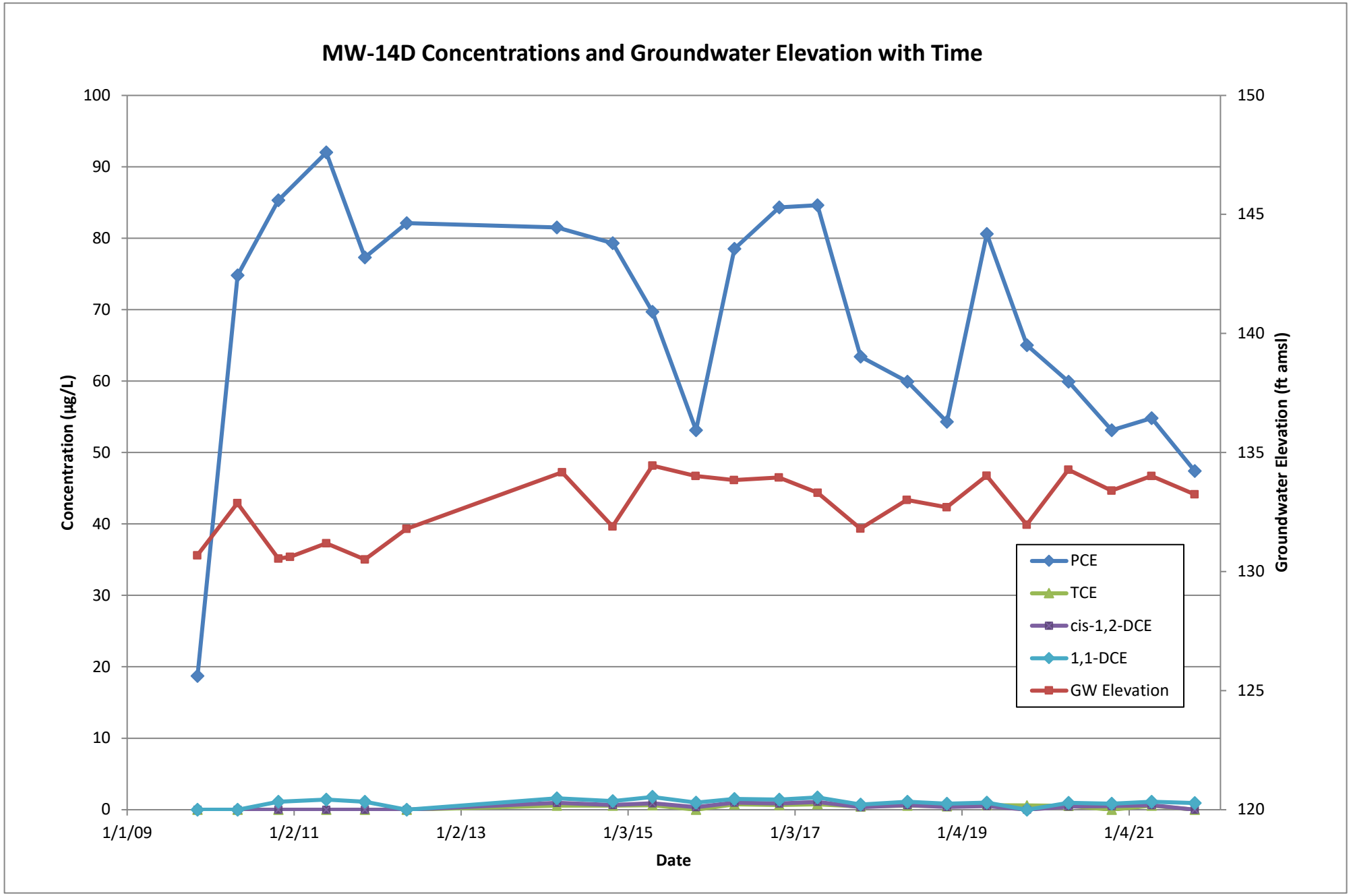

MW-8 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

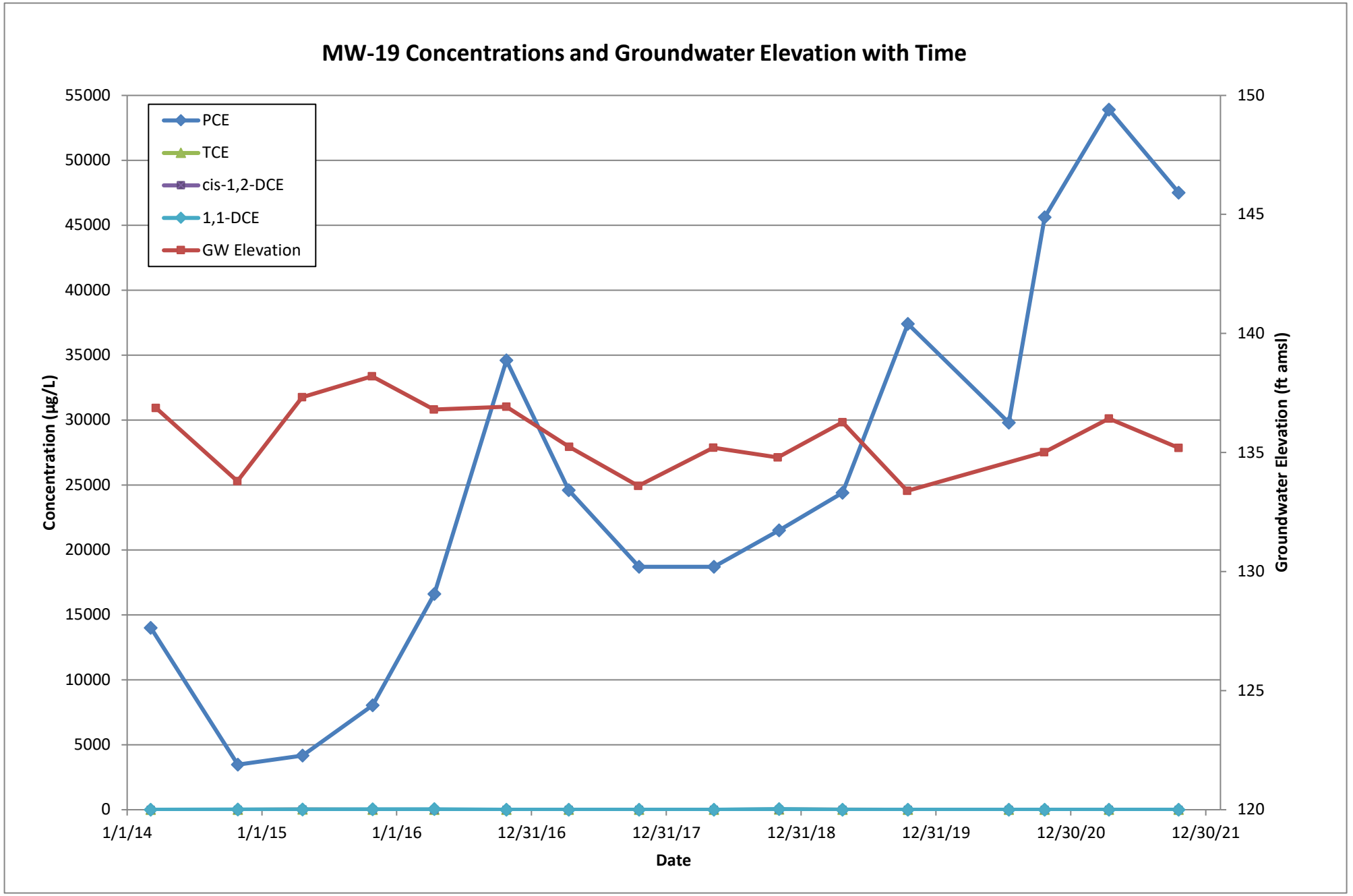

MW-9 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
8000
7000
6000
5000
4000
3000
2000
1000
0
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

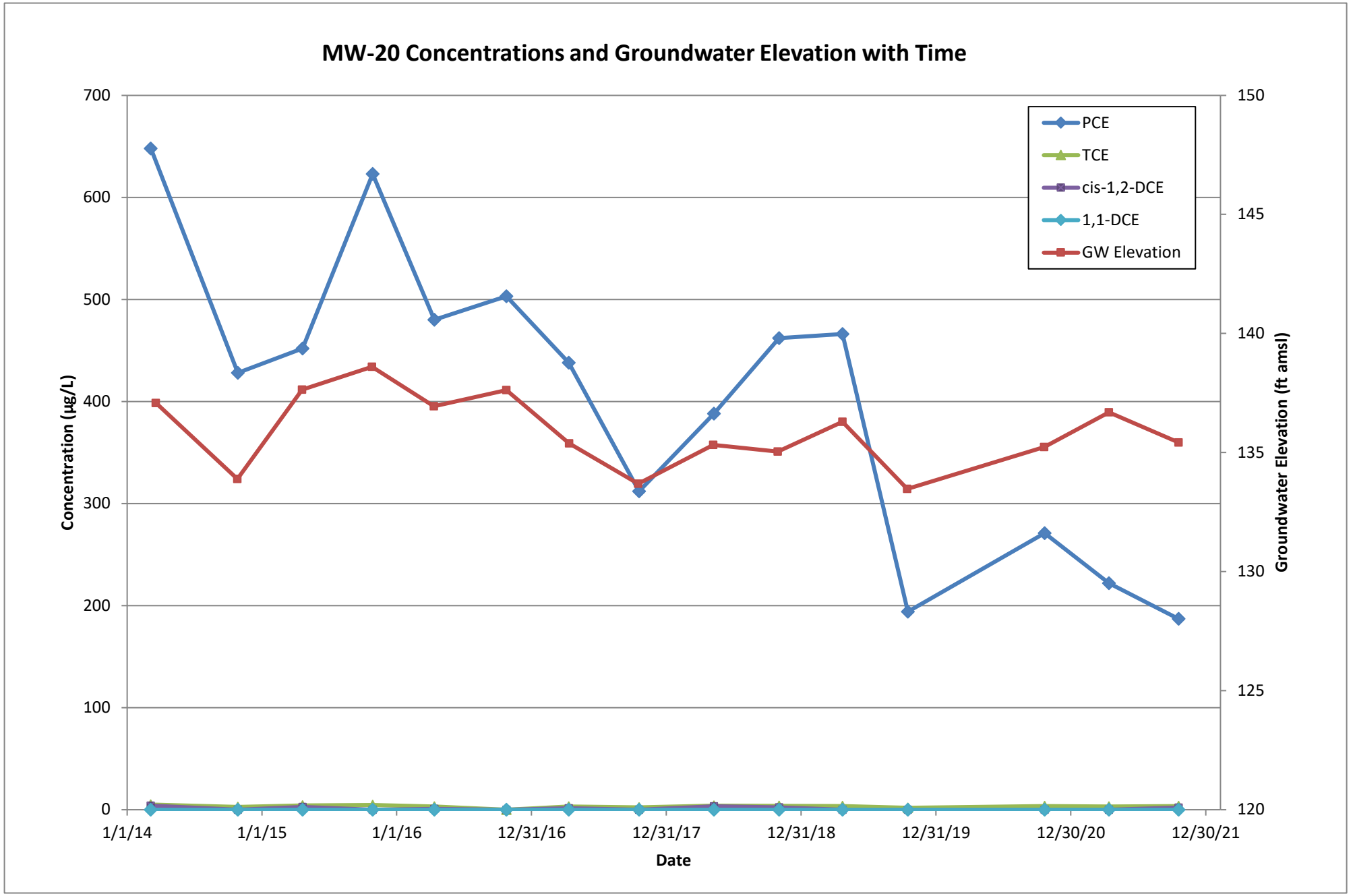

MW-10 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
6000
5000
4000
3000
2000
1000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21

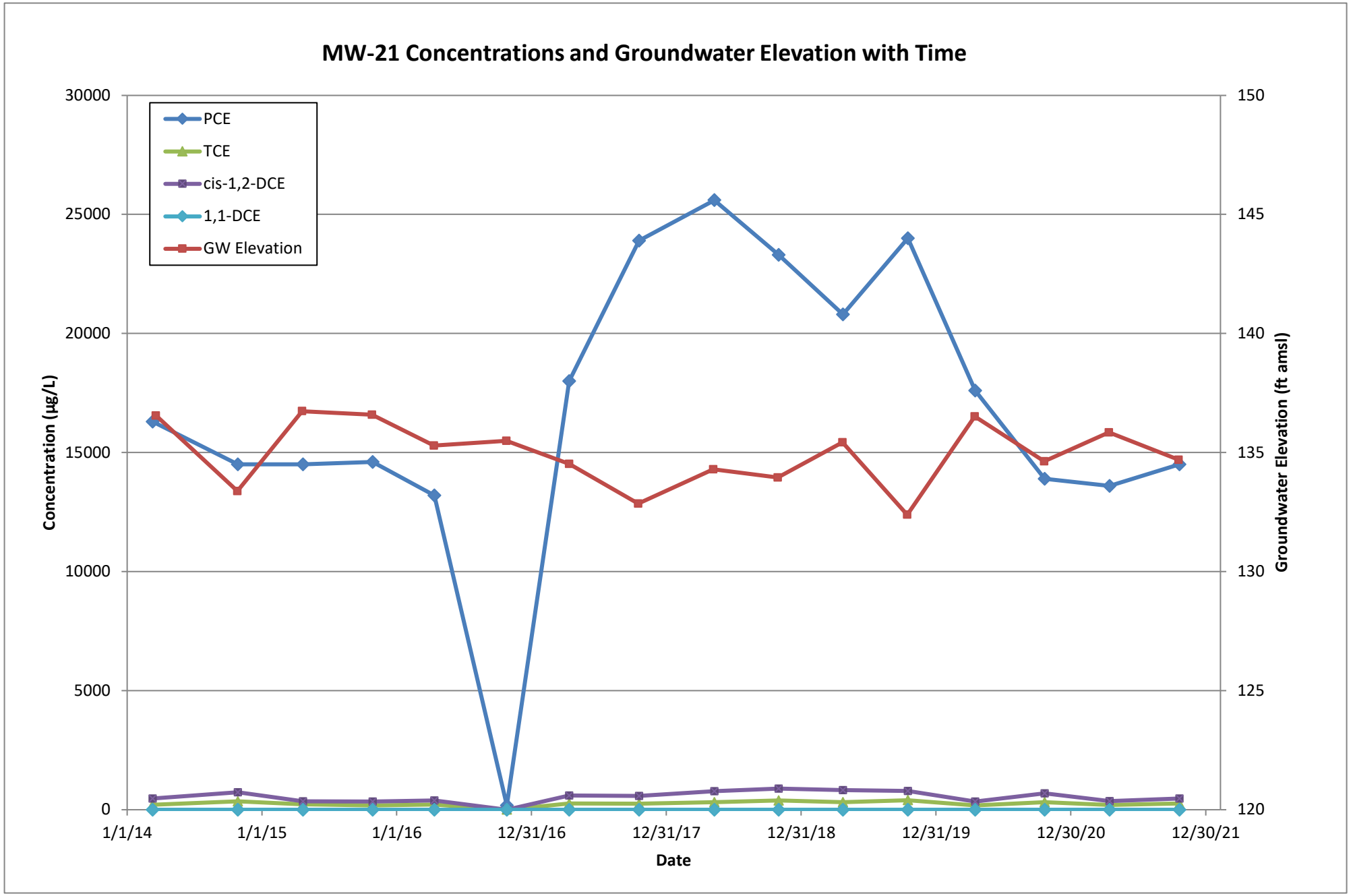

MW-12D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21

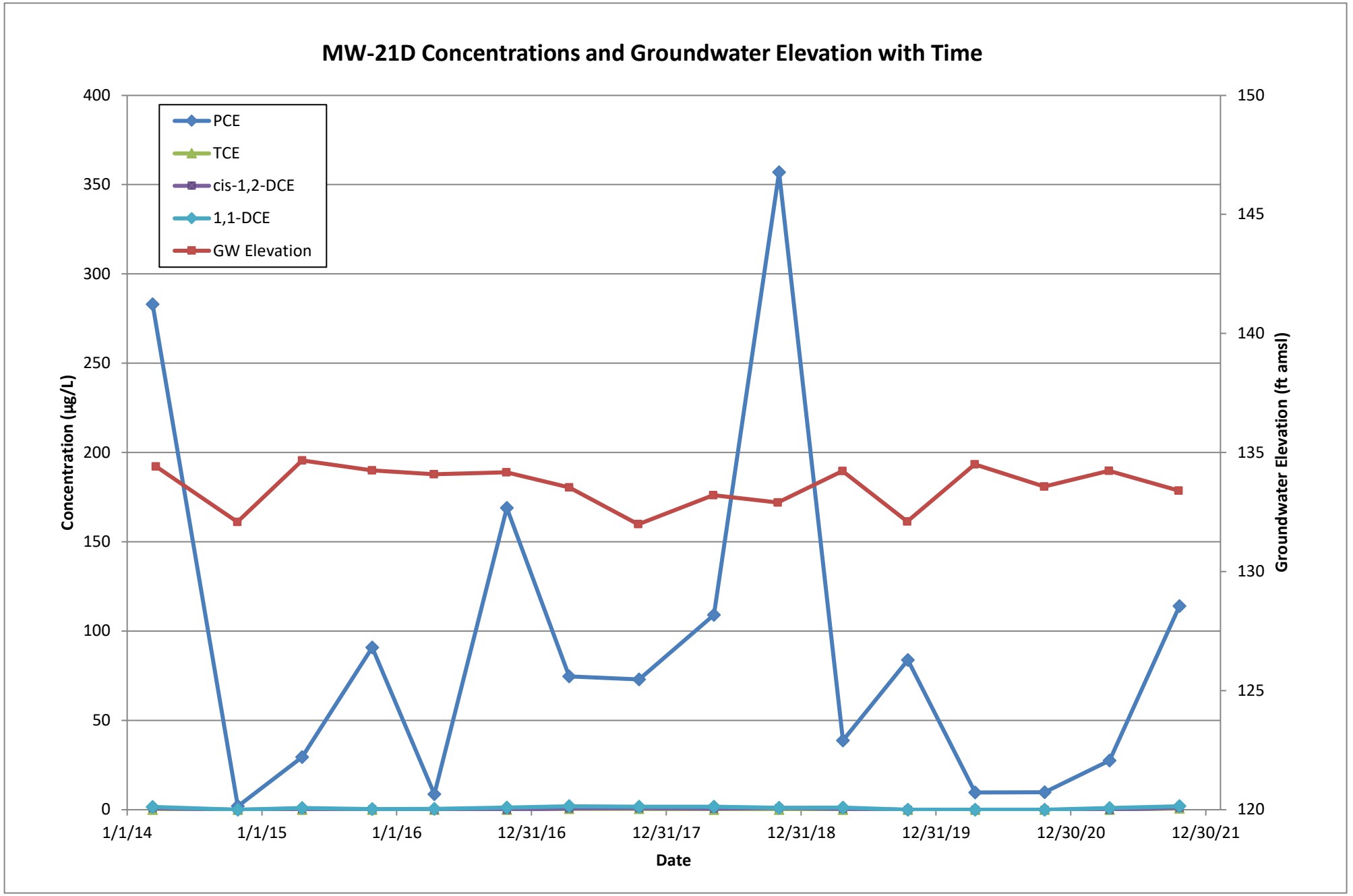

MW-13D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21

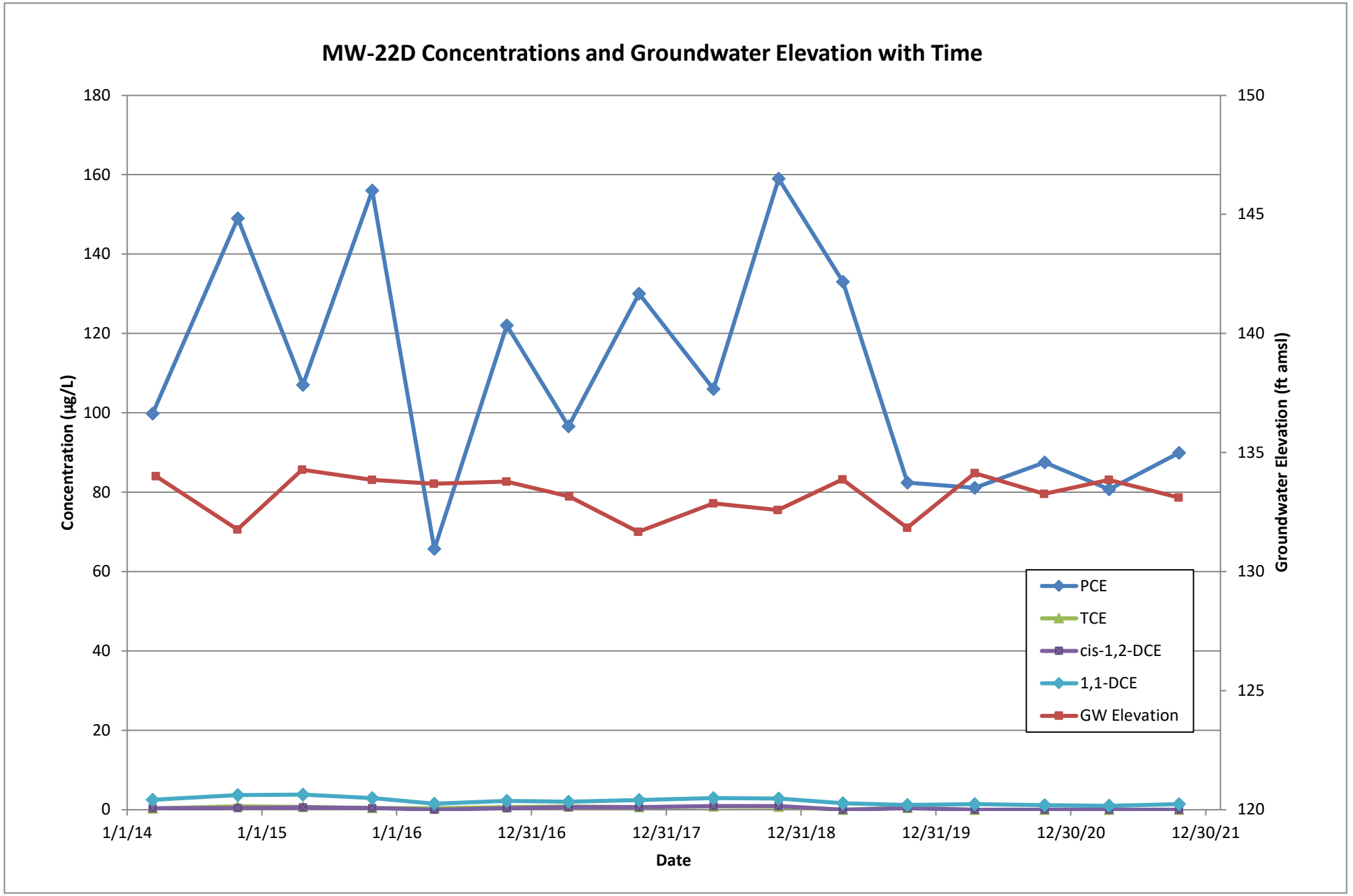

MW-14D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
100
90
80
70
60
50
40
30
20
10
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

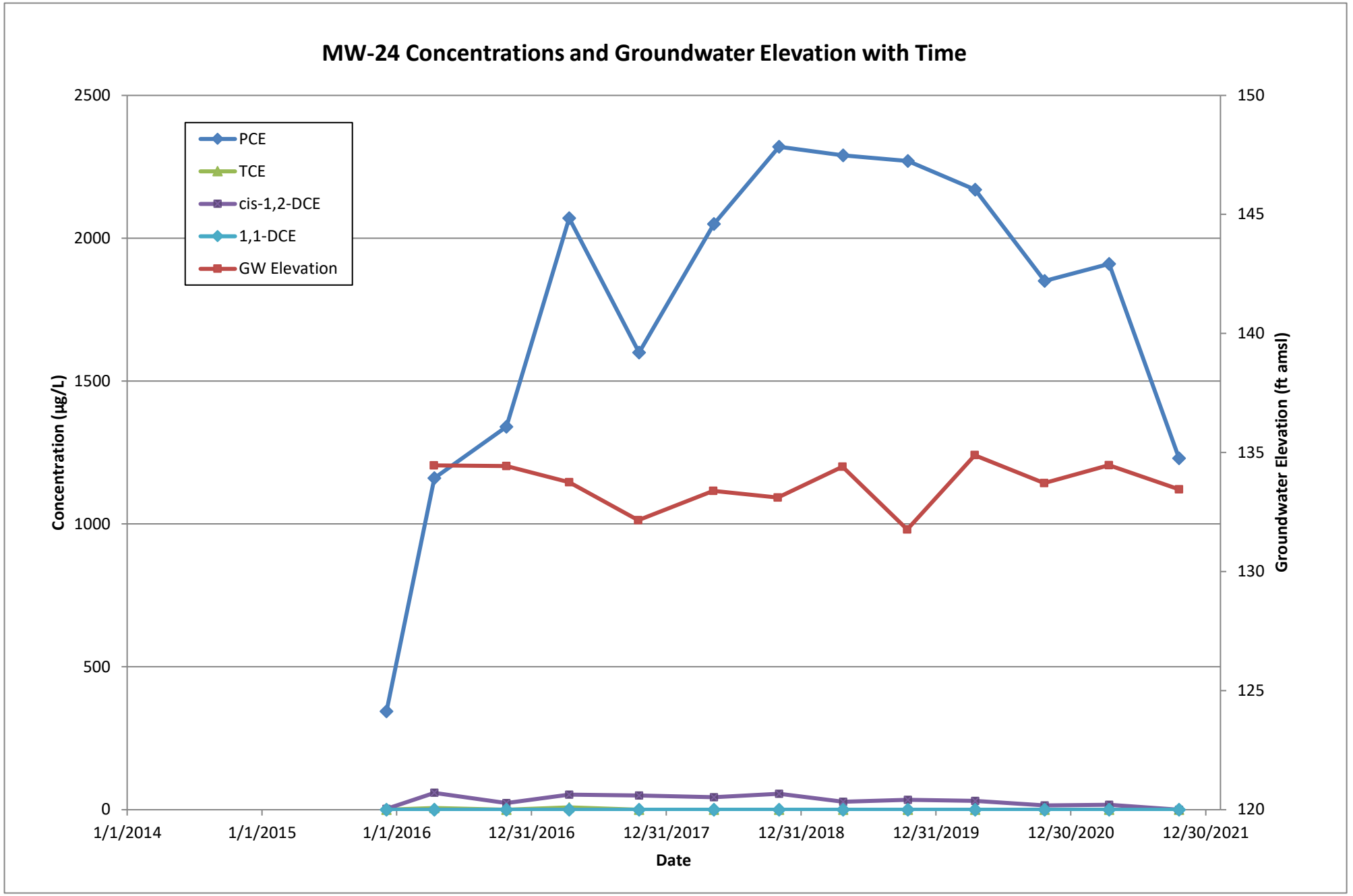

MW-19 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
55000
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21

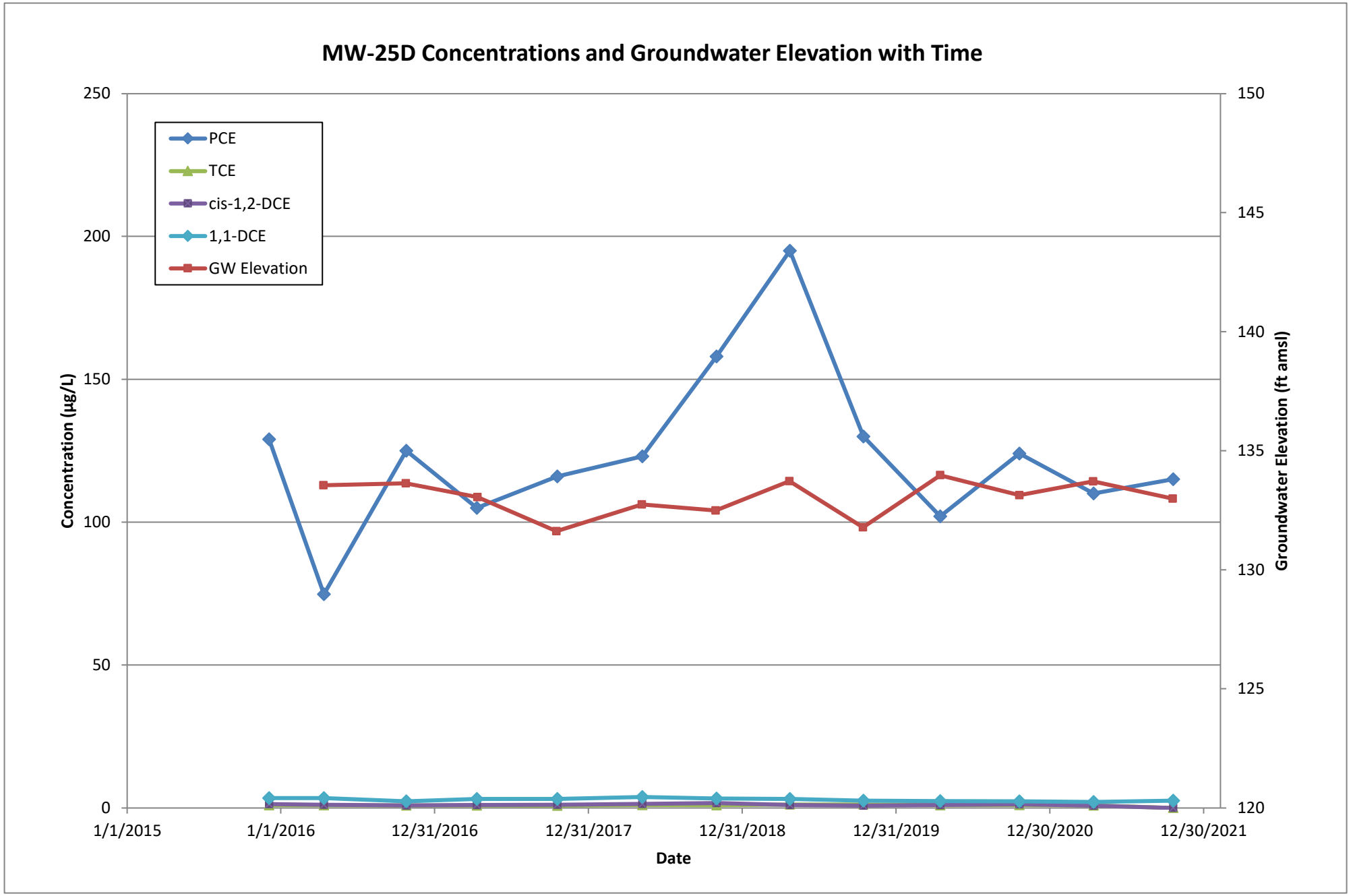

MW-20 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21

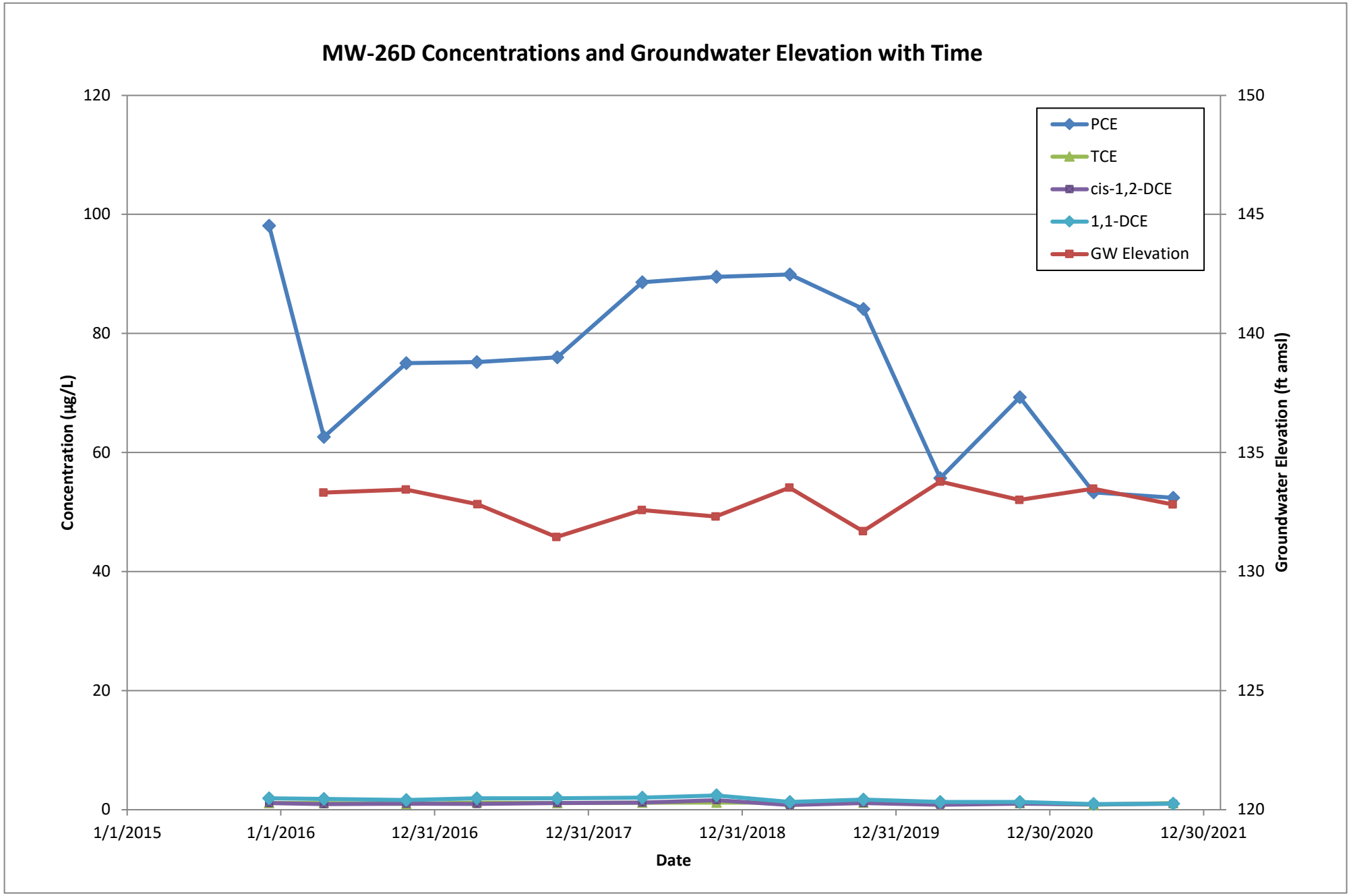

MW-21 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21

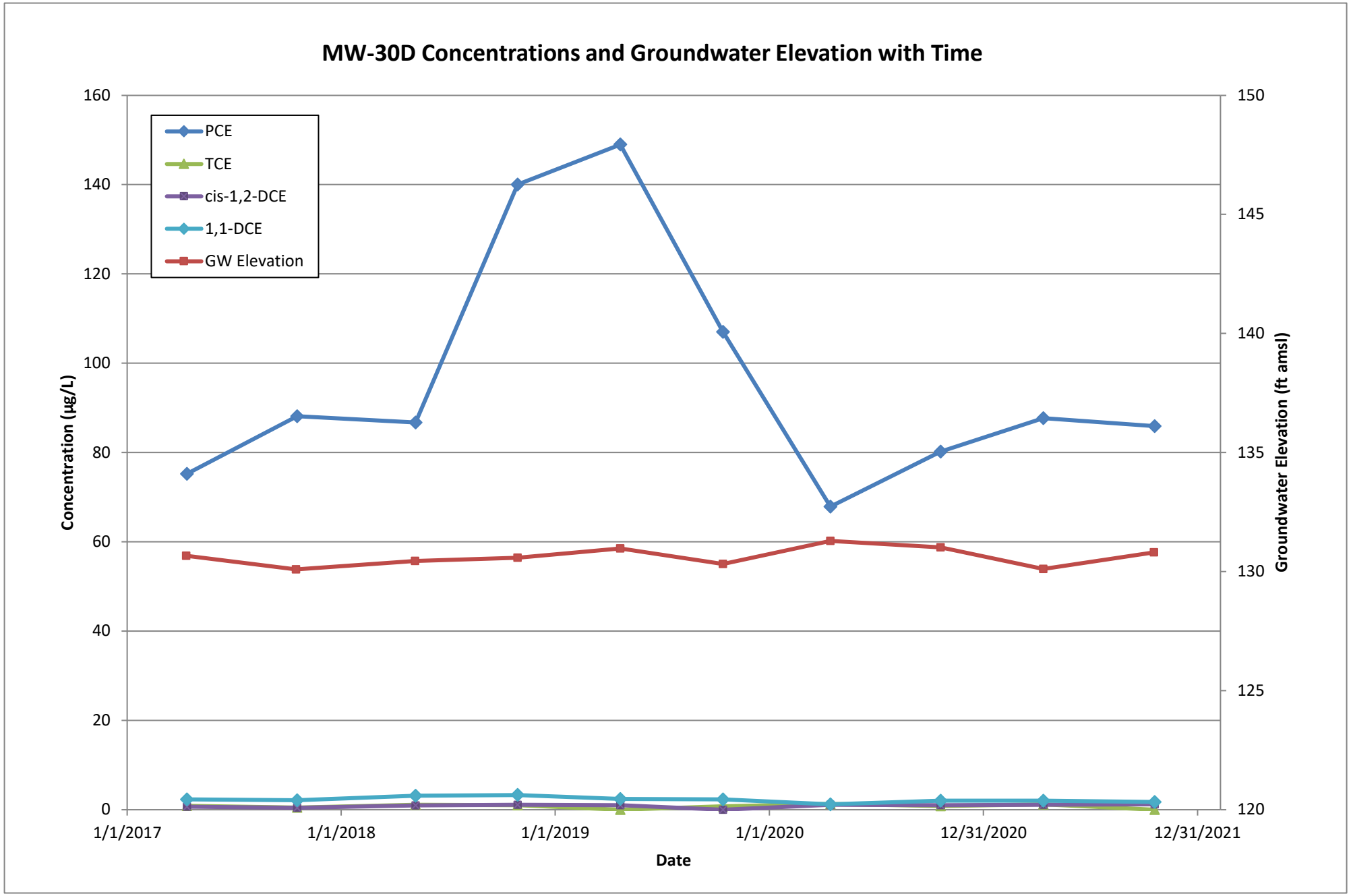

MW-21D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21

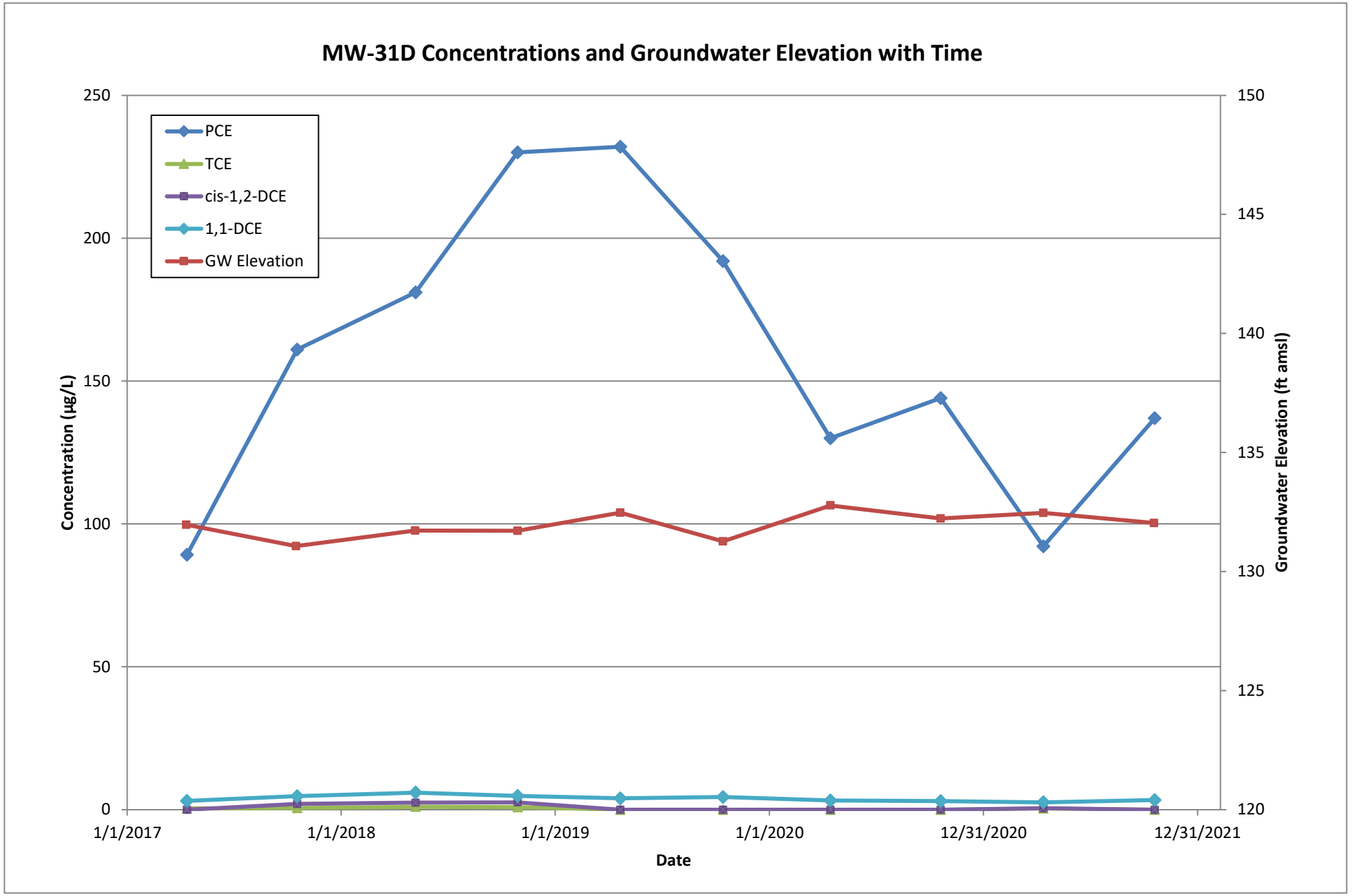

MW-22D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
180
160
140
120
100
80
60
40
20
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

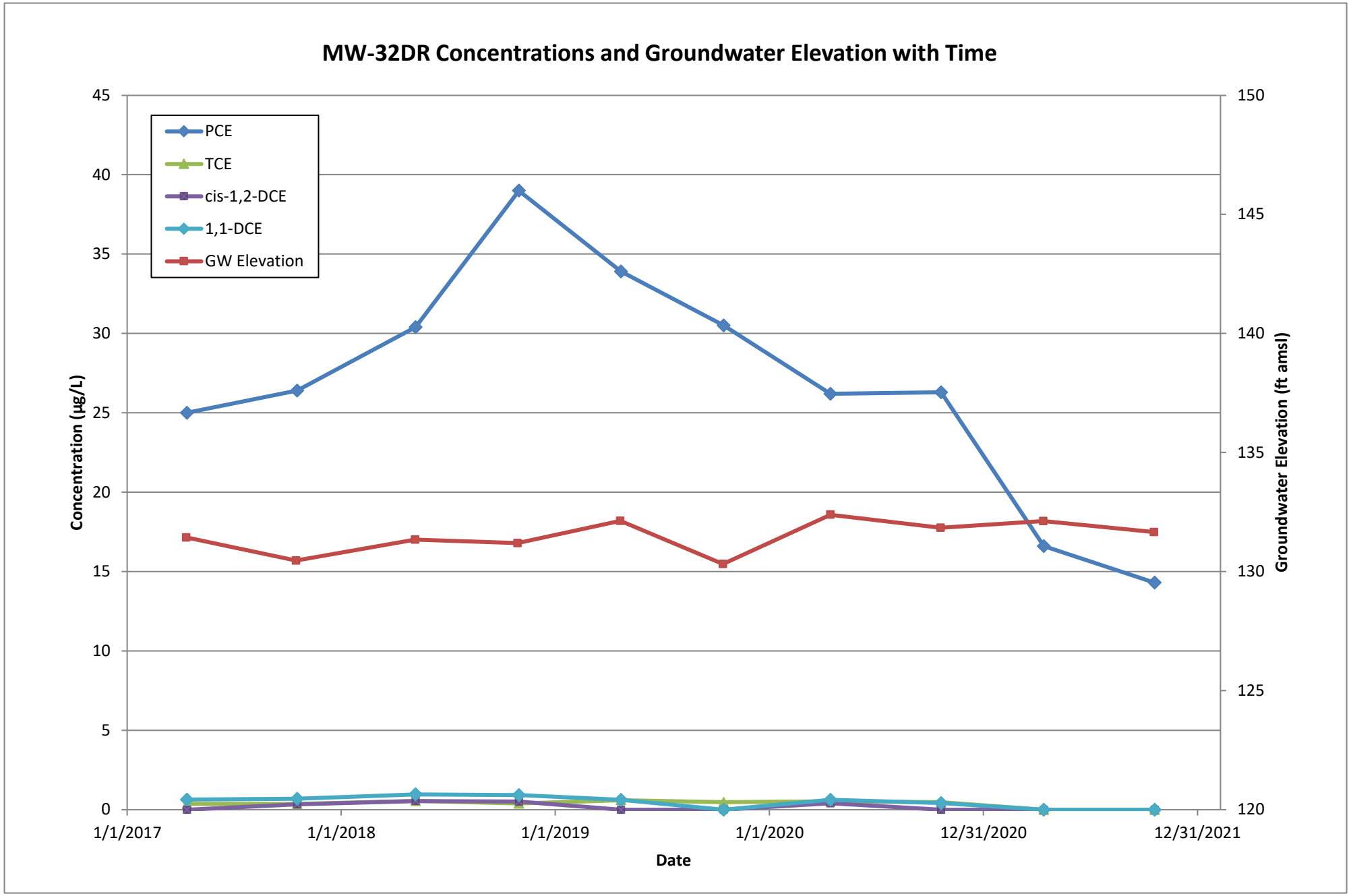

MW-24 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
2500
2000
1500
1000
500
0
150
145
140
135
130
125
120
1/1/2014
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021


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
12/30/2021


MW-26D Concentrations and Groundwater Elevation with Time
120
100
80
60
40
20
0
150
145
140
135
130
125
120
Concentration (µg/L)
Groundwater Elevation (ft amsl)
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
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
12/31/2021


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
12/31/2021


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
12/31/2021