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

864 234 3000 tel
864 234 3069 fax

March 27, 2024

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MAR 28 2024
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 2023 Semi-Annual Groundwater Monitoring Report
Delavan Spray Technologies Site
Bamberg, South Carolina
SCDHEC VCC Number 13-4762-RP
SCDHEC File Number 51778
AECOM Project Number 60707644

Dear Ms. Devlin:

AECOM Technical Services, Inc. (AECOM) has prepared one (1) hard copy and one (1) electronic copy of the Fall 2023 Semi-Annual Groundwater Monitoring Report for the Delavan Spray Technologies Site. This report is being submitted to the Department in accordance with the Remedial Investigation Work Plan (Hart & Hickman, August 1, 2013) and Voluntary Clean-up Contract (VCC) number 13-4762-RP, which was signed on July 3, 2013.

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

Sincerely,

AECOM Technical Services, Inc.

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
Todd McLeod – Delavan Spray Technologies
Project File 60314964\60656814\60681452\60707644

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SITE ASSESSMENT,
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REVITALIZATION

Fall 2023 Semi-Annual Groundwater Monitoring Report

Delavan Spray Technologies Site

4334 Main Highway
US Highway 301 South
Bamberg, South Carolina
VCC 13-4762-RP

Prepared by:
AECOM Technical Services, Inc.
10 Patewood Drive
Building 6, Suite 500
Greenville, South Carolina 29615

March 2024

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FALL 2023 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:

Jacob Wortkoetter
AECOM Engineer

March 27, 2024
Date

Ian J. Ros, PE
AECOM Remediation Engineer

March 27, 2024
Date

Reviewed by:

LESLEE J. ALEXANDER REGISTERED No. 2433 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

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

March 27, 2024
Date

Conan Fitzgerald
AECOM Project Manager

March 27, 2024
Date

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1. Introduction

AECOM Technical Services, Inc. (AECOM) has prepared this *Fall 2023 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 2023 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 [H&H], 2013) approved by SCDHEC October 22, 2013.

In Accordance with the *Interim Removal Action Work Plan* (AECOM, June 2021) that was submitted and approved by SCDHEC in correspondence dated June 28, 2021, installation of the soil vapor extraction (SVE) system was completed in June 2022. Additional details of the SVE remediation system (SVE system) construction and installation were provided in the *Construction Completion Report* submitted on August 11, 2022 (AECOM, August 2022). Ongoing operations and performance of the SVE system are documented in this report.

This report is organized as follows:

- **Section 2.0** provides a brief overview of the Site;
- **Section 3.0** describes the semi-annual sampling activities;
- **Section 4.0** presents the semi-annual results;
- **Section 5.0** provides a summary of the SVE system operation and performance since implementation;
- **Section 6.0** summarizes conclusions based on the groundwater sampling results and SVE system performance; and
- **Section 7.0** provides cited references.

2. 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 (H&H, 2003). 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, 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 (H&H, 2006). Post-injection monitoring was conducted by H&H between 2005 and 2007. The results indicated that chlorinated compound concentrations were reduced in Site groundwater (H&H, 2007). 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's 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 (ft) 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 completed 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, February 2020). In nine (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 (2) additional residential wells in November 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 2019). Three additional GAC treatment units were installed in October 2019 and verification sampling was completed in November 2019 (AECOM, February 2020).

Following completion of the limestone aquifer delineation field work, 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 2023 event 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", 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 an SVE system at the Site was submitted and approved by SCDHEC in correspondence dated June 28, 2021. Installation of the horizontal extraction wells for the SVE system was completed in late September 2021. The system was installed in 2022, with formal startup in June 2022. These activities were documented in the *Construction Completion Report (CCR) – SVE System* (AECOM, August 2022).

In November of 2021, per the request of the SCDHEC during the June 1 call, AECOM submitted a site wide Feasibility Study (FS) Report (AECOM, November 2021). Following their review, SCDHEC requested the FS Report be revised to include the off-site groundwater impacts. The Feasibility Study report was revised to an *On-Site Focused FS*, submitted to SCHDEC on February 7, 2023, and a separate *FS Work Plan for Off-Site Areas* was submitted to SCDHEC on February 14, 2023. The *FS Work Plan for Off-Site Areas* was approved by SCDHEC in a comment letter dated July 24, 2023 and the *On-Site Focused FS* was approved by SCDHEC in a comment letter dated September 26, 2023.

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, August 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 (ft bgs). 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. Groundwater Monitoring Procedures

Fall 2023 semi-annual sampling activities were completed by AECOM personnel during November 6-8, 2023. Monitoring activities were conducted in accordance with the schedule and procedures documented in the *Revised Sampling and Analysis Plan* (SAP; AECOM, September 2022).

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 passive diffusion bag (PDB) or HydraSleeve® sampling techniques. Groundwater indicator parameters were collected from 32 monitoring wells (parameters could not be collected from MW-20 due to insufficient water volume). All 33 groundwater samples were submitted for analysis of VOCs;
- 10 monitoring wells: MW-3D, MW13-D, MW-14D, MW-21D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, and MW-32DR were sampled for Monitored Natural Attenuation (MNA) parameters in accordance with the *FS Work Plan for Off-Site Areas* (AECOM February 2023);
- Surface water samples were collected from four (4) locations:
    - Halfmoon Branch at the intersection with Main Highway (US Highway 301);
    - Lemon Creek at the intersection with Main Highway (US Highway 301);
    - Lemon Creek at the intersection with Broxton Bridge Road (US Highway 601); and
    - Lemon Creek at the intersection with Carlisle Street (State Rd S-5-77);

In addition, groundwater samples were collected from 9 residential wells in conjunction with this event (**Figure 4**). Two residential wells were not functional at the 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 November 6, 2023, 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.

Polyethylene PDBs were installed in small diameter (<2 inch) wells MW-19, MW-20, and MW-37 and Hydra Sleeve® devices were installed in the remaining monitoring wells after groundwater samples were collected during the spring 2023 semi-annual monitoring event. Each PDB/ HydraSleeve® was attached to a new nylon or polyethylene rope with a stainless steel weight attached. The devices were lowered into the wells and installed within the screen interval and at least 1-2 ft above the bottom of the well. The sampling devices were left to equilibrate in the wells until samples were collected on November 8, 2023. PDBs/ HydraSleeves® were sampled by slowly transferring the water from the device through the dedicated discharge device (if included) or through a small discharge hole and directly into the laboratory-provide sample containers.

Any water remaining in the PDB/ HydraSleeve® after sample collection was transferred to the measurement cup for the water quality meter. Groundwater quality indicator parameters of pH, specific conductance, dissolved oxygen, oxidation-reduction potential (ORP), turbidity, and temperature were measured with the water quality meter and recorded on the Field Screening Results form, which is included in **Appendix B**.

Surface water samples were collected with a peristaltic pump and field parameters at the time of sampling were recorded on the Field Screening Results form that is 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 quality assurance (QA) / quality control (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. As part of the *FS Work Plan for Off-Site Areas,* select monitoring wells were analyzed for MNA parameters including iron and manganese by USEPA Method 6010D; ferric iron and ferrous iron by Method SM3500 Fe B-11; chloride, nitrate, and sulfate by USEPA Method 9056A; sulfide by Method SM4500 S2 F-11; acetylene, ethane, ethene, and methane by Method RSK-175. The monitoring well groundwater and surface water 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. Results

4.1 Groundwater Flow

Water level measurements were collected on November 6, 2023 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 2023 water levels within the shallow aquifer zone occurred between 131.21 and 136.63 ft in elevation. Shallow water level elevations were 2.87 ft lower on average than those collected during the spring 2023 groundwater monitoring event (April 2023). Compared to shallow aquifer zone water levels measured during the Fall 2022 groundwater monitoring event (October 2022), October 2022 water levels on average were 0.59 ft lower than November 2023. These differences are likely attributable to precipitation differences during these time periods. Shallow flow patterns resulting from the fall 2023 water level measurements were generally similar to those observed previously at the Site. The equal potential lines indicate groundwater flow beneath the Facility varies between southwestward and north eastward flow directions, with a local groundwater depression outside the Facility building at monitoring well MW-1, MW-3, MW-8, and MW-21. This phenomenon was previously recognized in the *RI Work Plan* (H&H, August 2013) and characterized as a "groundwater trough", a feature that has been observed to extend to MW-1 and MW-3 during previous field investigation efforts. The variances in groundwater elevation and flow directions in this portion of the Site could be the result of preferential flow pathways resulting from higher permeability zones due to local facies changes or induced drainage from the sanitary sewer line or incised drainage ditch, which forms the northern boundary of the Facility. However, the primary shallow horizontal groundwater flow direction is inferred to be toward the west, toward Halfmoon Branch, which is consistent with findings from previous investigations conducted at the Site.

Based on the November 2023 water level elevations within the deeper limestone aquifer zone, the potentiometric surface occurred between 128.26 and 133.79 ft in elevation (**Figure 6**). Groundwater elevations in November 2023 were on average 1.02 ft lower than those measured during the spring 2023 groundwater monitoring event (April 2023) and were on average 0.41 ft higher than those collected during the fall 2022 groundwater monitoring event (October 2022). From the equal potential lines, the inferred horizontal groundwater flow direction is to the south-southwest in the Site vicinity and then to the south/southeast in the southern portion of the monitoring well network. The observed groundwater flow in November 2023 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 all measured well pairs that are not in the immediate vicinity of Half Moon Branch (e.g., MW-3/MW-3D, MW-9/MW-9D, MW-10/MW-10D, MW-14/MW14-D, and MW-21/MW-21D), and ranged from 2.03E-02 feet per foot (ft/ft) at MW-10/MW-10D to 5.16E-02 ft/ft at MW-21/MW-21D. The shallow to deeper gradient near Half Moon Branch was an upward gradient (5.61E-02) at MW-15/MW-15D and downward gradient –(4.91E-03) at MW-16/MW-16D. For the deeper limestone aquifer / deep sandstone aquifer well pair, the gradient was upward (5.97E-04) at MW-3D/MW-3D1 and downward (7.50E-04) at MW-15D/MW-15D1.

4.2 Groundwater Quality

Groundwater quality indicator parameters, including pH, specific conductance, dissolved oxygen and ORP were measured in the field during groundwater sampling. 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**. MNA data collected as part of the *FS Work Plan for Off-Site Areas* are summarized in **Table 5**; however these results are not discussed in this report. An analysis of the MNA data will be included in the forthcoming FS for the off-Site areas.

Shallow Aquifer Zone Monitoring Wells

VOCs

In the 17 groundwater samples collected from shallow aquifer zone groundwater during the fall 2023 semi-annual monitoring, eight (8) VOCs (PCE, TCE, cis-1,2-DCE, 1,1-DCE, toluene, ethylbenzene, methylene chloride, and acetone) were detected (**Table 4**). With the exception of acetone, ethylbenzene, and toluene, all of the detected compounds exceeded their respective MCLs in one or more samples of shallow groundwater. However, the toluene detections were flagged (B) due to detected concentrations in the associated trip blank and are not believed to be Site-related.

PCE was the most frequently detected VOC in shallow aquifer zone groundwater samples (11 detections) and groundwater concentrations exceeded the MCL (5 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 (27,900 µg/L) and MW-21 (8,950 µg/L), which are in the vicinity of the Former Northern PCE Degreaser and the Former PCE UST, respectively. Both wells have been among those with the highest PCE concentrations each sampling event since they were installed in February/March 2014. Elevated but lower concentrations of PCE were detected in shallow aquifer groundwater in MW-24 (1,150 µg/L) along the western property boundary, in MW-9 (59.5 µg/L) and MW-10 (327 µg/L) located in the wooded areas of interest, in MW-8 (184 µg/L) located in the asphalt parking lot northeast of the main Facility building, in MW-3 (85.7 µg/L) downgradient of the Former PCE Secondary Containment Area, in MW-20 (64.7 µg/L) adjacent to the southern Former PCE Degreaser, and in MW-1 (57.6 µg/L) adjacent to the Former PCE Secondary Containment Area. PCE was not detected in any shallow off-site monitoring wells (MW-14, MW-18, MW-27, and MW-28; **Figure 7**).

Detected TCE concentrations that exceeded the MCL occur across a smaller footprint than the PCE impacts and are typically present within the “hot-spots” of the PCE plume (**Figure 8**). TCE concentrations were detected in seven (7) shallow monitoring wells and exceeded the MCL (5 µg/L) in four (4) groundwater samples – MW-8 (57 µg/L), MW-9 (10.6 µg/L), MW-10 (63.2 µg/L), and MW-21 (256 µg/L).

Cis-1,2-DCE was detected in eight (8) shallow monitoring wells and exceeded the MCL (70 µg/L) in two (2) monitoring wells, MW-10 (405 µg/L) and MW-21 (600 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 in one monitoring well, MW-10 (27 µg/L), and the detection was above the MCL for 1,1-DCE (7 µg/L; **Figure 10**).

Methylene Chloride was detected at estimated concentrations (J-flagged) in five (5) shallow monitoring wells and exceeded the MCL (5 µg/L) in all five (5) locations – MW-8 (5.3 JB/B/L µg/L), MW-10 (23.5 J µg/L), MW-19 (1240 JB µg/L), MW-21 (430 JB µg/L), and MW-37 (267 J µg/L; **Figure 11**). The elevated detections of methylene chloride generally coincide with the PCE and TCE plumes in the shallow aquifer beneath the Site (**Figure 7** and **Figure 8**). Two of the detections were B-flagged due to detections of methylene chloride in the associated method blank and one of these (MW-8) was L-flagged as being not site-related per data evaluation guidance.

There were no exceedances of constituents of concern (COCs) in groundwater samples collected in November 2023 from off-Site wells screened in the shallow aquifer zone. Based on the current (November 2023) and recent (October 2020, October 2021, and October 2022) data, the nature and extent of COCs has been delineated in the shallow aquifer beneath the Site.

Indicator Parameters

Groundwater quality indicator parameters were measured for all shallow monitoring wells during groundwater sampling, except for MW-20, which had insufficient water volume for measurement. Water quality readings were recorded on the Field Screening Results form, which is 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 was not within the optimal range for the reductive pathway (<0.5 mg/L) in any shallow monitoring well sampled in November 2023, and exceeds tolerable levels (>5 mg/L) in 8 of the shallow monitoring wells sampled. However, the DO measurements were likely impacted by the switch to PDB sampling methods which prohibit the use of the flow-through cell for water quality measurements. ORP is not within favorable ranges in any shallow monitoring wells except for wells MW-10 and MW-14. The pH was within the optimal range for all 16 of the shallow monitoring wells with field parameters recorded. The 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.)	5.18	7.09	5.83	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	1.87	9.17	5.44	<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)	14.70	153.3	103.3	<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 57.6 µg/L. The PCE concentrations in MW-9 and MW-10 have decreased from their maximums at the time of their installation in December 2003. Since December 2003, the PCE concentration in MW-9 has decreased from a high of 7,500 µg/L to a low 44.9 in April 2022; the current concentration is 59.5 µg/L. The PCE concentration in MW-10 has decreased from 5,800 in December 2003 to a low of 41.4 µg/L in October 2016. The PCE concentration in MW-10 then increased to 1,550 µg/L in October 2018 before decreasing; the current concentration is 327 µg/L. Similarly, the PCE concentration in MW-5 has decreased from a high of 345 µg/L in March 2005 and has been below the MCL for the last eight monitoring events. The most recent (November 2023) PCE concentration in MW5 is 2.1 µg/L.

Other wells, such as MW-3, located immediately downgradient of the Former PCE UST and the Former PCE Secondary Containment Area, exhibit mixed trend results. The PCE concentration in MW-3 has decreased from a high of 391 µg/L in October 2010 to an estimated value of 0.92 J µg/L in April 2015. The PCE concentration in MW-3 then increased to 199 µg/L in April 2017 before decreasing to 77.3 µg/L in October 2017. The current concentration is 85.7 µg/L and is within the range of recent concentrations. 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 then increased to 535 µg/L in October 2022 before decreasing to the current concentration of 184 µg/L, which is the lowest since April 2019 (174 µg/L).

Concentrations of PCE in groundwater from MW-19, located near the northern-most Former PCE Degreaser exhibited an increasing trend between March 2014 (14,000 µg/L) and October 2016 (34,600 µg/L). The PCE concentration of MW-19 decreased to 18,700 µg/L in May 2018 but then increased to 53,900 µg/L in April 2021, which is the highest recorded concentration for this monitoring well; the current concentration is 27,900 µg/L. 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; PCE concentrations have since decreased and the current PCE concentration in MW-24 is 1,150 µg/L. The elevated concentrations observed in MW-24 since April 2017 are likely a result of mass migrating from the hot-spot near MW-19. Other wells, such MW-20, which is located near the southern-most Former PCE Degreaser, 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 8,950 µg/L in November 2023. 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 256 µg/L.

Deeper Limestone Aquifer Zone Monitoring Wells

VOCs

In the sixteen (16) groundwater samples collected from the deeper limestone aquifer zone groundwater during November 2023, seven (7) VOCs were detected (PCE, TCE, cis-1,2-DCE, 1,1-DCE, toluene, acetone, and 1,1,1 Trichloroethane (1,1,1 TCA); **Table 4**). Of these compounds, PCE, and TCE exceeded their respective MCLs in one or more samples. The toluene detections were flagged (B) due to detected concentrations in the associated trip blank and are not believed to be Site-related.

PCE was detected in 12 deeper aquifer zone groundwater samples and groundwater concentrations exceeded the MCL (5 µg/L) in 10 of these samples (MW-3D, MW-12D, MW-13D, MW-14D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, and MW-32DR; **Figure 12**). 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 (261 µg/L at MW-3D). PCE concentrations exceeded the MCL (5 µg/L) in on-site down-gradient monitoring wells MW-12D (17.5 µg/L) and MW-13D (70.6 µg/L), and in off-Site down-gradient monitoring wells MW-14D (35.5 µg/L), MW-22D (79.3 µg/L), MW-25D (63.3 µg/L), MW-26D (42.3 µg/L), MW-30D (53.2 µg/L), MW-31D (128 µg/L), and MW-32DR (19.1 µg/L).

TCE concentrations were detected in three (3) samples from the deeper aquifer zone during the Fall 2023 monitoring event. All of the detected concentrations were below the MCL (5 µg/L) except for one sample in on-Site well MW-3D (8.1 µg/L; **Figure 13**). TCE was also detected at estimated concentrations below the MCL in off-Site down-gradient wells MW-26D and MW-30D both (0.73 J).

Cis-1,2-DCE was detected in one (1) sample from the deeper limestone aquifer zone groundwater during the Fall 2023 monitoring event (MW-3D). The detection in MW-3D did not exceed the MCL for cis-1,2-DCE (70 µg/L).

The groundwater contaminant plume in the deeper limestone aquifer is limited to PCE with one small area at MW-3D where the TCE concentration exceeds its MCL. The concentrations of all other constituents are either below their respective MCLs or not detected. Based on this data, 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 Screening Results form, which is included in **Appendix B**. Indicator parameters are also presented in **Table 3** and select parameters are summarized in the inset table below, along with their observed ranges and their optimal ranges for anaerobic biodegradation based on USEPA guidance (1998). Based on this information, measured pH values are optimal in all deeper aquifer monitoring wells except MW-12D, and MW-34D. Dissolved oxygen values were not within the optimal range (<0.5 mg/L) for any deeper aquifer monitoring wells and exceed tolerable levels (>5 mg/L) in all deeper aquifer monitoring wells except for MW-3D, MW-10D, MW-13D, MW-21D, MW-26D, and MW-31D. The DO concentrations were likely impacted by the switch to PDB sampling methods which prohibit the use of the flow through cell for water quality parameters. ORP values measured

in November 2023 are not favorable in the deeper aquifer for reductive dechlorination, but indicate the reductive pathway is possible at 8 of the 16 wells MW-10D, MW-12D, MW-13D, MW-21D, MW-30D, MW-31D, MW-33D, and MW-36D. Observed elevated ORP levels in many areas may inhibit natural degradation of chlorinated VOCs.

Analysis	Minimum	Maximum	Average	Optimal Range for Anaerobic Biodegradation Processes*
pH (S.U.)	7.23	11.60	8.16	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	1.68	8.91	6.24	<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)	-93.7	111.7	33.6	<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 a high value of 140 µg/L in April 2016 and the current PCE concentration, 17.5 µg/L, which is the lowest since May 2011. PCE concentrations in MW-13D decreased from a maximum of 292 µg/L in April 2010 to a low of 56 µg/L in May 2011. PCE concentrations gradually increased in MW-13D to 298 µg/L in October 2016 before decreasing to the current concentration of 70.6 µg/L, which is the lowest since May 2011. 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 present. The November 2023 concentration, 261 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 November 2018 before decreasing to 9.6 µg/L in April 2020. The current PCE concentration in MW-21D, 1.4 µg/L, is similar to concentrations detected since October 2022, which have all been less than the MCL for PCE (5 µg/L).

After the initial sampling of down-gradient well MW-14D, concentrations have remained fairly consistent throughout the monitoring period, ranging from approximately 29 µg/L and 90 µg/L. The current PCE concentration is 35.5 µg/L. In other down-gradient monitoring wells, such as MW-22D (79.3 µg/L in November 2023) and MW-25D (63.3 µg/L in November 2023), PCE concentrations have remained fairly consistent since the wells were installed. Other wells exhibited relatively consistent PCE values until exhibiting a recent decline (e.g., MW-26D declined after October 2019) 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.

A non-parametric trend analysis was performed for Limestone Aquifer wells to better understand concentration trends. Specifically, a Mann-Kendall analysis was applied to the groundwater data using the publicly available GSI

Environmental Inc. software (www.gsi-net.com). The Mann-Kendall test does not require any assumptions as to the statistical distribution of the data (e.g., normal, lognormal, etc.) and can be used with data sets that include irregular sampling intervals and missing data. PCE was utilized as the primary COC. The Mann-Kendall analysis measures the trend in the data where positive values indicate an increase in constituent concentrations over time and negative values indicate a decrease in constituent concentrations over time. The strength of the trend is proportional to the magnitude of the Mann-Kendall Statistic (e.g., large magnitudes generally indicate a strong trend). The software also determines the "Confidence in Trend," which is the statistical probability that the constituent concentration is actually increasing or decreasing. Trends identified with confidence values of 95-100 percent (%) are defined as "Increasing" or "Decreasing". Trends with confidence values of 90-95% are defined as "Probably Increasing" or "Probably Decreasing." Trends with confidence values below 90% are defined as either "No Trend" or "Stable" depending on the determined coefficient of variation, which may be biased subject to the constituent concentration levels and the site hydrogeological conditions.

A total of ten Limestone Aquifer wells were selected for the Mann-Kendall analysis which included three on-Site wells (MW-3D, MW-13D, and MW-21D) and seven off-Site wells (MW-14D, MW-22D, MW-25D, MW-26D, MW-30D, MW-31D, and MW-32DR). The Mann-Kendall analyses are provided in **Appendix E** and a summary of the analyses results is provided in the table below. Concentration changes with time will continue to be plotted in future monitoring reports to validate the Mann-Kendall trend results.

Well ID	Concentration Trend
On-Site	
MW-3D	Decreasing
MW-13D	No Trend
MW-21D	No Trend
Off-Site	
MW-14D	Decreasing
MW-22D	Decreasing
MW-25D	Decreasing
MW-26D	Decreasing
MW-30D	Probably Decreasing
MW-31D	Probably Decreasing
MW-32DR	Decreasing

4.3 Surface Water Quality

Four (4) surface water samples were collected in November 2023 (**Figure 14**) for analysis of VOCs as requested by SCDHEC and discussed in **Section 2.1**. One planned surface water location, SW-04-TLC, was not sampled because the creek was dry at the time of sampling. PCE was detected in two samples: SW-01-LC (1.4 µg/L), collected downgradient of the PCE plume at the intersection of Lemon Creek with Hwy 601, and SW-05-LC (0.7 J µg/L) located approximately 4,000 ft southeast from SW-01-LC along Lemon Creek. The detections were below the MCL for PCE (5 µg/L) and the SCDHEC Water Classification Standards (WCS) for PCE based on consumption of an organism only (3.3 µg/L; SCDHEC, June 2014). No other VOCs were detected in surface water samples in November 2023 (**Table 6**).

The lack of COC detections in upgradient portions of the creeks (i.e., in surface water samples SW-03-HMB and SW-02-LC) coupled with the low detections in the downgradient portion of Lemon Creek (SW-01-LC, SW-05-LC), indicates that deeper aquifer groundwater impacted with PCE concentrations is mixing with shallow aquifer groundwater and discharging to Lemon Creek. This is consistent with the site conceptual model presented in the *Deep Groundwater Delineation Technical Memorandum* (AECOM, June 2020), which was approved by SCHDEC in correspondence dated June 23, 2020.

4.4 Investigation-Derived Waste

Purge water generated during the semi-annual sampling activities was combined with the SVE condensate storage. The SVE condensate is disposed of on an “as needed” basis, dependent on accumulation, by an approved disposal facility under a non-hazardous waste profile.

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 *Revised SAP* (AECOM, September 2022). Quality assurance and 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 Relative Percent Difference (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 all samples were qualified “/B/T” in **Table 4** and **Table 5** due to the presence of the analyte in the associated trip blank sample. As a result, all toluene results are considered not Site-related.

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSD samples were collected at a frequency of one per twenty primary samples and are included in the analytical data packages provided in **Appendix B**; however, these results were not tabulated as the information only pertains to the primary sample with which the MS/MSD is associated. Detections of methylene chloride less than 71 µg/L in samples associated with batch V2P3893 were qualified “/B/L” due to the presence of the analyte in the associated method blank. The parameter is not considered site-related per EPA data evaluation guidance. Detections of acetone were qualified “/J/C” due to recovery of the analyte above established limits in the associated laboratory control sample (156% > 50-150%). These qualifiers indicate the results are over-estimations and should be considered biased high. Results of methyl bromide in sample MW-9 were qualified “/M/D” due to the relative percent difference between the associated matrix spike and matrix spike duplicate samples exceeding the established criteria (39% > 35%). These

qualifiers indicate the 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. SVE System Operation and Performance

SVE was initiated as an interim measure at the Site in June 2022. The primary objectives of the SVE system were to remove COC mass from unsaturated soils and mitigate COCs in soil vapor at the Site, specifically underneath the main manufacturing building footprint.

A total of seven (7) SVE wells (SVE-1 through SVE-7) were installed below the main manufacturing building via horizontal directional drilling (HDD) techniques. The horizontal well screens were installed to a target depth of approximately 6 ft below the building slab within the unsaturated soils. Conveyance piping was installed within trenches to connect the SVE wells to the SVE equipment compound located near the southwest corner of the Site. An as-built drawing illustrating the layout of the SVE system is provided in **Figure 15**. Additional details of the SVE system construction and installation were provided in the *Construction Completion Report* (AECOM, August 2022).

Since the beginning of operation in June 2022, AECOM has been monitoring and evaluating the operation and performance of the SVE system on a monthly basis. To monitor operations of the SVE system, readings including vacuum, discharge flowrate, blower speed, and cumulative runtimes were collected during routine inspections. As of January 29, 2024, the SVE system has operated with an average vacuum of approximately 47 inches of water column (in-WC) which produced an average vacuum of approximately 38 in-WC at the SVE wells. The SVE blower operated at an average speed of approximately 30 Hertz (Hz) which produced an average discharge flowrate of approximately 408 cubic feet per minute (CFM). The SVE system operated with a runtime efficiency of 86 percent to date. The monitoring data tables for the SVE system are provided in **Appendix F**.

To monitor performance of the SVE system, vacuum readings were collected from sub-slab vapor pins (installed within sub-slab void space) and vapor monitoring points (installed within soil 2 ft below concrete slab floor surface) located throughout the main manufacturing building (**Figure 15**). To evaluate performance of the SVE system, a vacuum of 0.10 in-WC was retained as the benchmark for vacuum influence. As of January 29, 2024, average vacuum measurements collected from the sub-slab vapor pins and vapor monitoring points ranged from 0.217 (SSV-1) to 4.644 in-WC (SSV-5) and 1.072 (VMP-6) to 7.116 in-WC (VMP-1), respectively. This data suggests sufficient vacuum throughout the unsaturated soils to mitigate COC impacted vapors underneath the main manufacturing building. A summary of the performance monitoring data is also provided in **Appendix F.**

Analytical data was also collected from the SVE system vapor stream on a monthly basis to evaluate COC mass removal. Since the vapor stream does not undergo any active treatment (e.g., discharged directly to atmosphere), the effluent concentrations are assumed to be reflective of influent concentrations. Based on the analytical results and mass calculations to date, influent concentrations peaked during the first day of operation and reached near asymptotic levels after two months of operation. For example, the influent PCE concentration during the first day of operation (July 15, 2022) was 34,300 micrograms per cubic meter (µg/m^3) and the average influent concentration from August 29, 2022 to January 29, 2024 was 1,110 µg/m^3. Additionally, the SVE system exhibited a peak COC mass removal rate of approximately 1.361 pounds per day (lbs/day) and has averaged 0.159 lbs/day to date. The cumulative COC mass removal as of January 29, 2024 was approximately 32.447 lbs. This data indicates mass removal and reduction of COCs in unsaturated soils underneath the main manufacturing building. A summary of the SVE system analytical as well as a graph of the total VOC mass removal rate trend is included in **Appendix F.** Analytical lab reports for SVE vapor samples collected since the last semi-annual sampling report submission are provided in **Appendix G**.

6. Conclusions

The following conclusions are submitted based on the evaluation of the Fall 2023 semi-annual monitoring results and a limited comparison to previous sampling results:

- Shallow water levels in November were on average 2.87 ft lower than those collected during the spring 2023 groundwater monitoring event (April 2023) and are on average 0.59 feet higher than those measured during the fall 2022 groundwater monitoring event (October 2022). In the deeper limestone aquifer, groundwater elevations in November 2023 are on average 1.02 feet lower than those measured during the spring 2023 groundwater monitoring event (April 2023) and are on average 0.41 feet higher than those collected during the fall 2022 groundwater monitoring event (October 2022). The shape of the potentiometric surfaces and groundwater flow patterns in both the shallow and deeper aquifer zones are similar to those observed in the spring 2023 and fall 2022 monitoring events and previous investigations.

- Concentrations of VOCs in the main shallow aquifer plume 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 November 2023 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 12**, 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. 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 12**) installed as part of the November 2019 Limestone Aquifer Assessment.

- Results of surface water analytical samples were non-detect for VOCs with the exception of PCE in surface water sample SW-01-LC (1.4 µg/L) and SW-05-LC (0.7 µg/L; **Figure 14**). 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 concentrations of PCE were less than the MCL for PCE (5 µg/L) and the SCDHEC WCS for PCE based on consumption of an organism only (3.3 µg/L; SCDHEC, June 2014). (**Figure 14**).

- Based on the Mann-Kendall analysis results, PCE concentrations in on-Site Limestone Aquifer wells exhibited “Decreasing” trends in MW-3D and “No Trend” in MW-13D and MW-21D. Additionally, PCE concentrations in off-Site Limestone Aquifer wells exhibited either “Decreasing” or “Probably Decreasing” trends.

- As of January 29, 2024, the SVE system has removed a cumulative mass of approximately 32.45 lbs of COCs. The influent PCE concentrations have been reduced from a peak of 34,300 µg/m^3 to an average of 1,100 µg/m^3 (since August 29, 2022). Continued operation of the system will contribute to improved vapor mitigation in the sub-slab as well as reduced potential for continuing PCE impact to groundwater within the footprint of the building.

In accordance with the monitoring requirement of the VCC, the next semi-annual sampling event is scheduled to occur in April 2024. Groundwater and surface water monitoring will be conducted in accordance with the schedule included as Table 1 of the Revised SAP (AECOM, September 2022). Furthermore, the 11 residential wells where GAC treatment has been installed will be sampled in accordance with Table 2 of the Revised SAP (AECOM, September 2022).

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SCDHEC, June 26, 2017. Correspondence Re: Groundwater Delineation Report dated June 23, 2017, Goodrich Delavan Spray Technology Site, Bamberg County, VCC #13-4762-RP.

SCDHEC, December 18, 2017. Correspondence Re: Limestone Aquifer Assessment Work Plan dated October 13, 2017, Goodrich Delavan Spray Technology Site, Bamberg County, VCC #13-4762-RP.

SCDHEC, September 20, 2018. Correspondence Re: Delavan Spray Technology Site, Revised Limestone Aquifer Groundwater Assessment Work Plan, Bamberg, SC, File #51778.

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SCDHEC, March 13, 2020. Correspondence Re: Delavan Spray Technology Site, Fall 2019 Semi-Annual Groundwater Monitoring Report, Bamberg, SC, File #51778.

SCDHEC, April 7, 2020. Correspondence Re: Delavan Spray Technology Site, Surface Water Sampling Plan Correspondence dated March 25, 2020, Bamberg, SC, File #51778.

SCDHEC, June 23, 2020. Correspondence Re: Delavan Spray Technology Site, Deep Groundwater Delineation Technical Memorandum dated June 10, 2020, Bamberg, SC, File #51778.

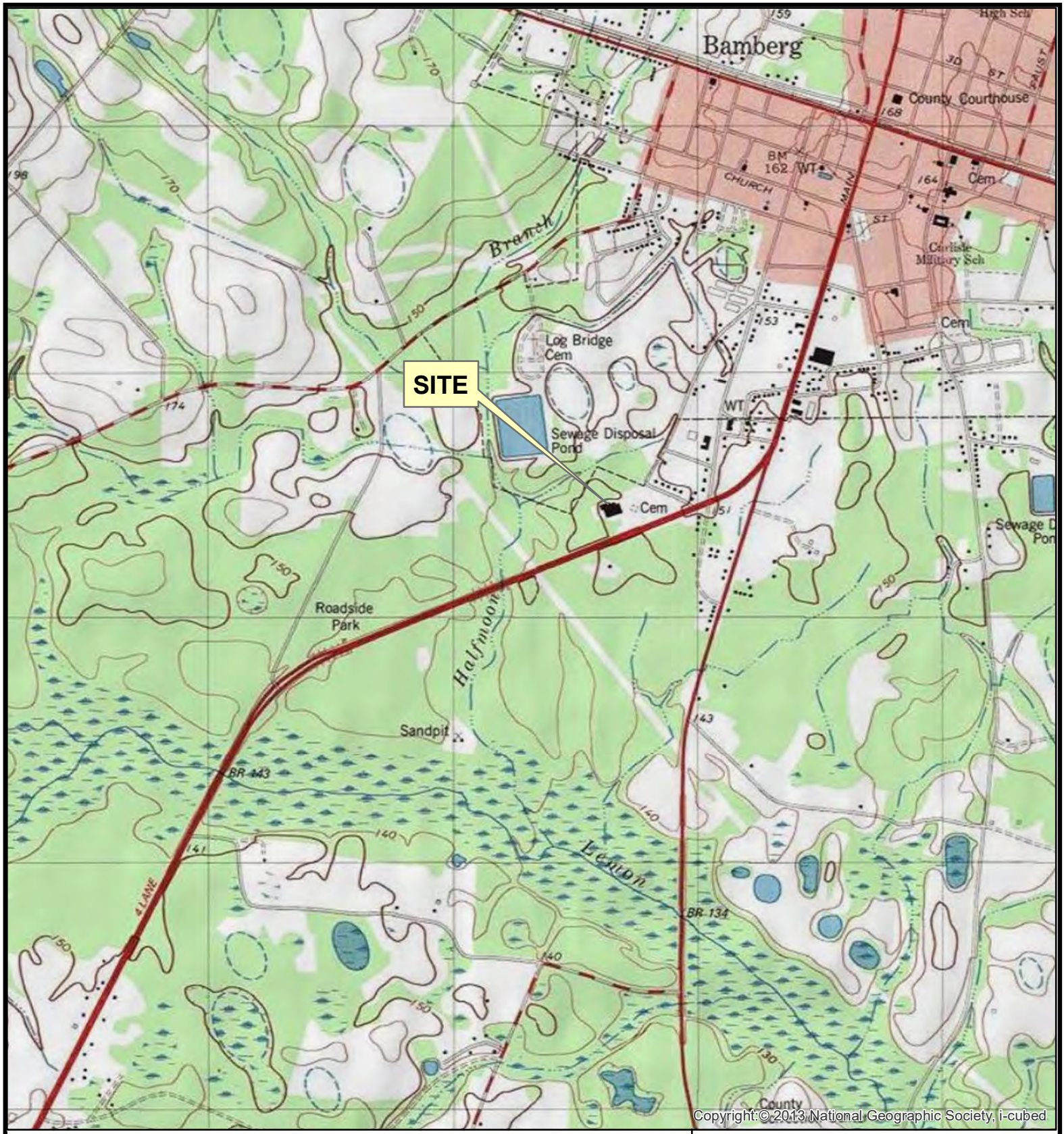
SCDHEC, April 19, 2021. Correspondence Re: Delavan Spray Technology Site, High Resolution Source Characterization Report dated March 9, 2021, Bamberg, SC, File #51778.

SCDHEC, June 28, 2021. Correspondence Re: Delavan Spray Technology Site, Interim Removal Action Work Plan Approval, Bamberg, SC, File #51778.

USEPA, 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water.

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Figures



N

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

U.S.G.S. QUADRANGLE MAP

BAMBERG, SC 1979 (PHOTO REVISED 1987)

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

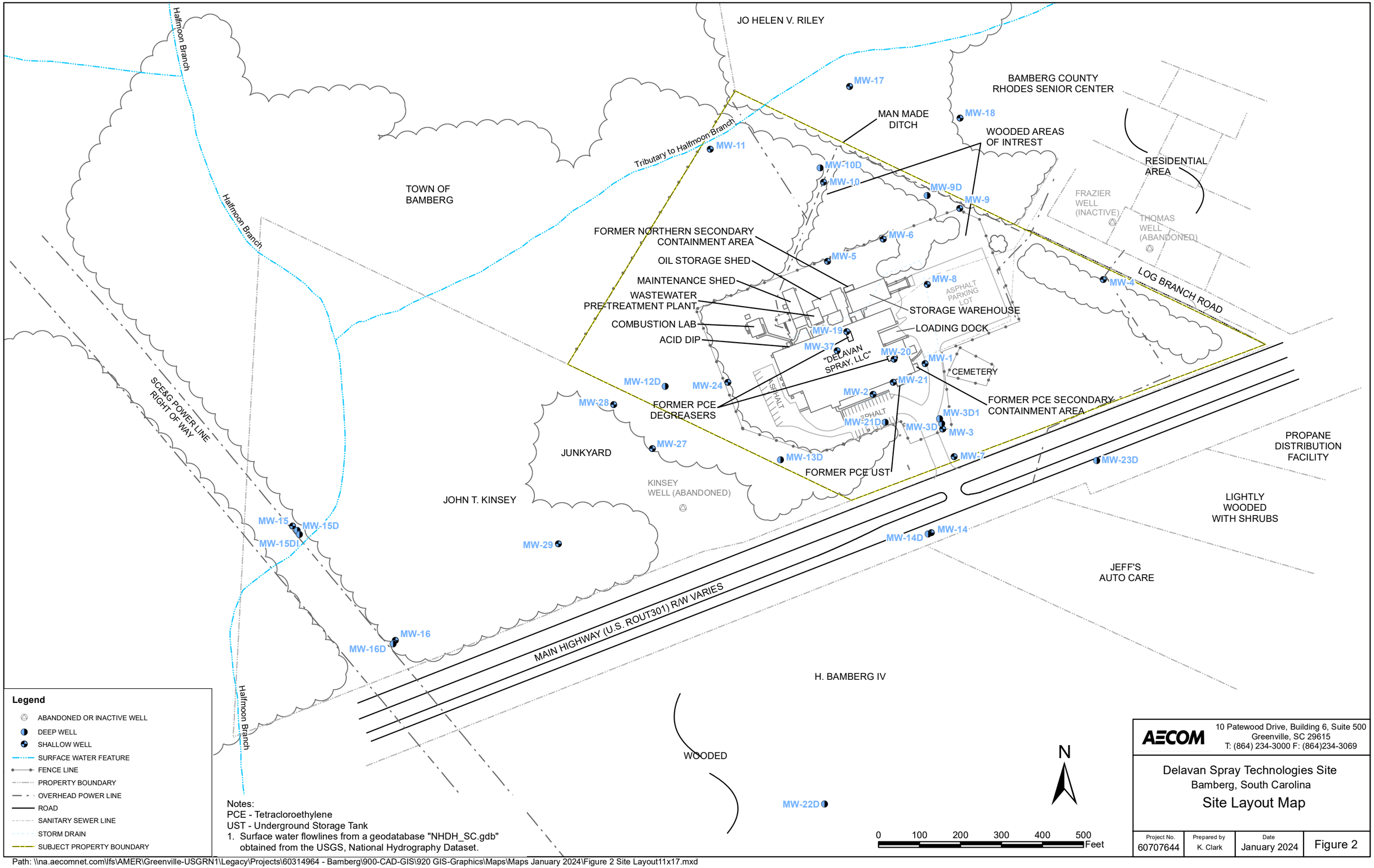
AECOM
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Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

Site Location Map

Project No.	Prepared by	Date	
60707644	KCG	January 2024	Figure 1

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 1 Site Location Map.mxd



Legend

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

Notes:
PCE - Tetracloroethylene
UST - Underground Storage Tank
1. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

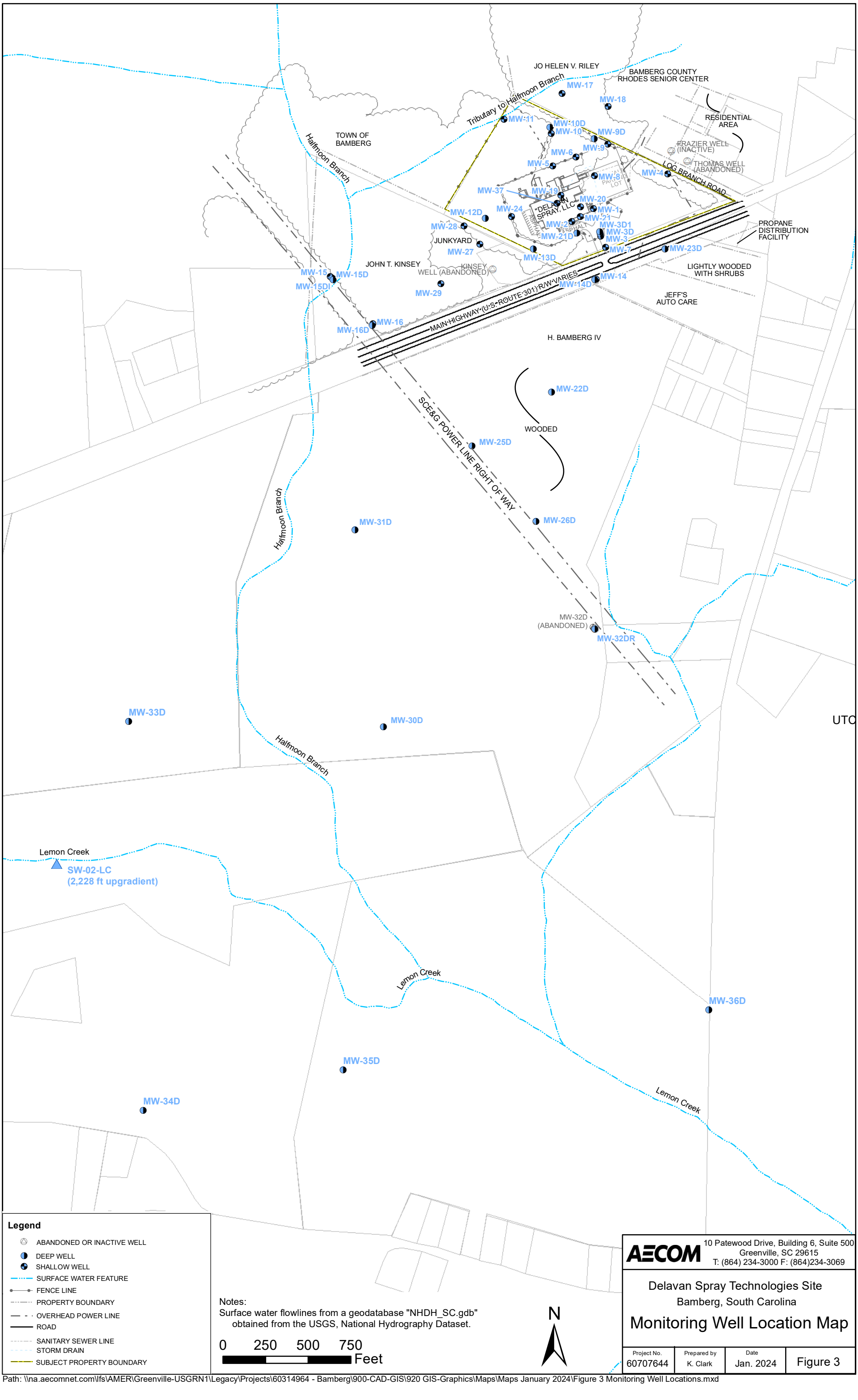
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Delavan Spray Technologies Site
Bamberg, South Carolina

Site Layout Map

Project No.	Prepared by	Date	
60707644	K. Clark	January 2024	Figure 2

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 2 Site Layout11x17.mxd



Legend

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

Notes:
Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

0 250 500 750 Feet

N

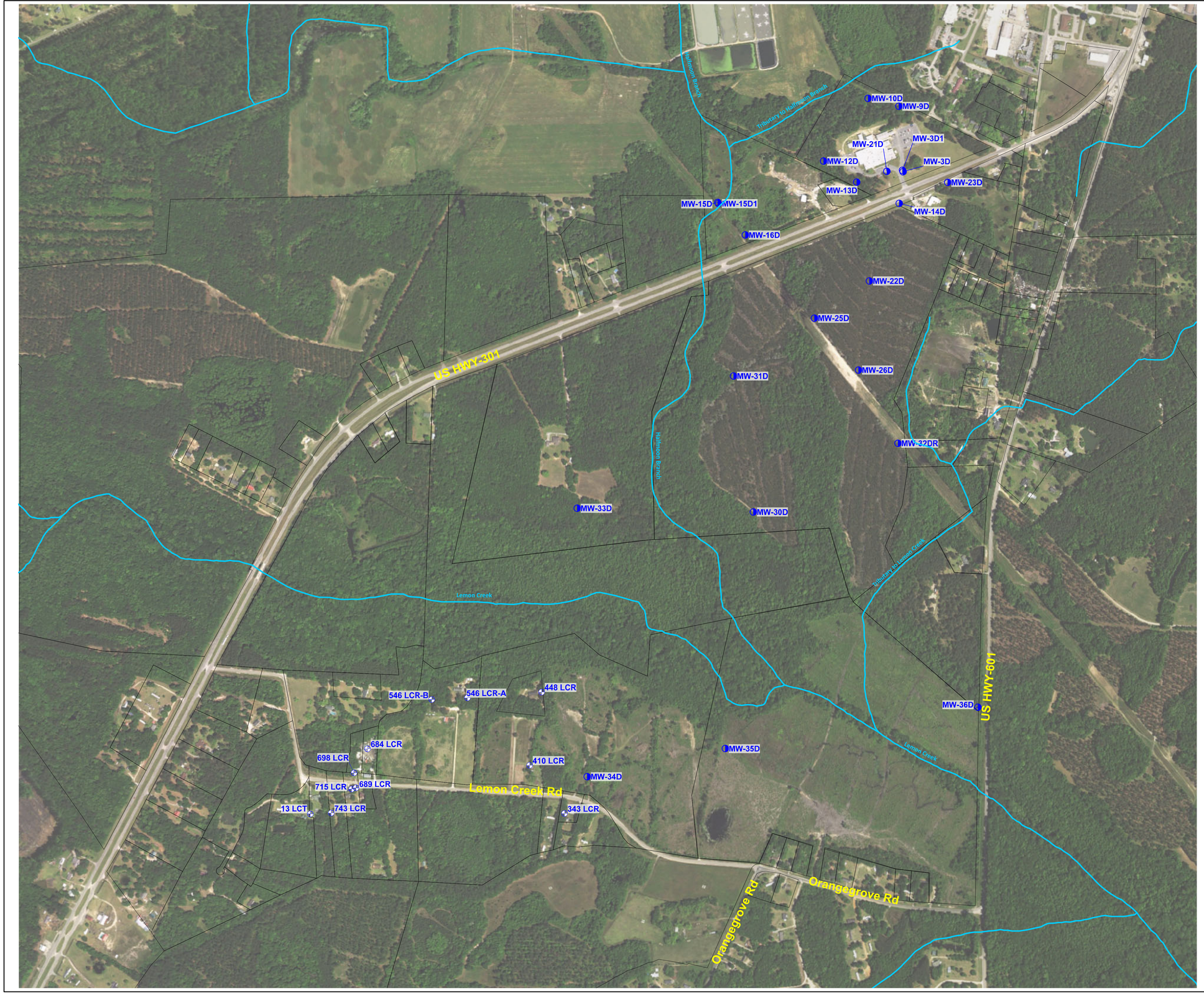
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Delavan Spray Technologies Site
Bamberg, South Carolina

Monitoring Well Location Map

Project No.	Prepared by	Date	
60707644	K. Clark	Jan. 2024	Figure 3

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 3 Monitoring Well Locations.mxd



LEGEND

410 LCR	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 November 2023 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.

N

0 400 800
FEET

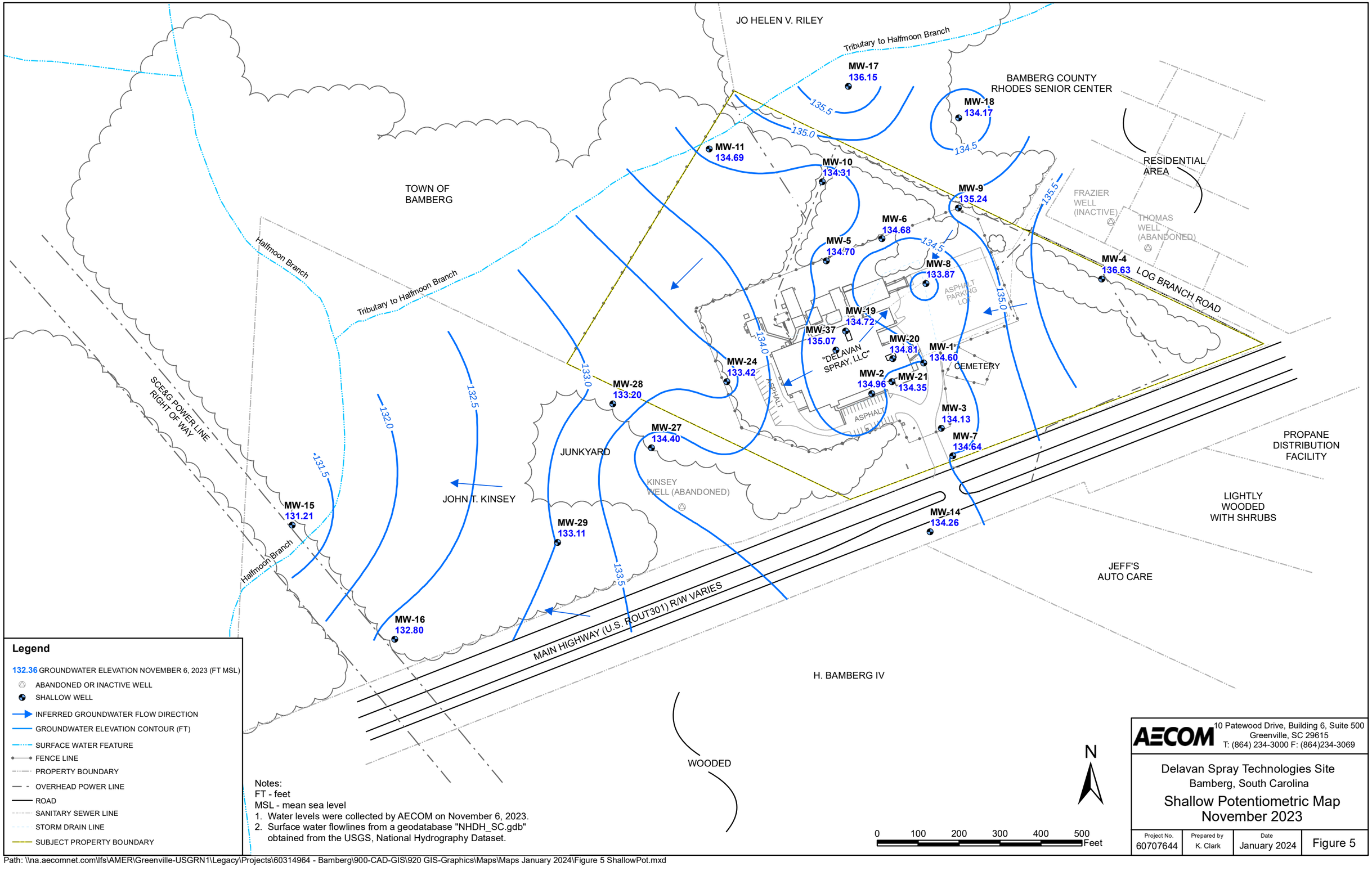
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

Project No.	Prepared by	Date	
60707644	L. Alexander	December 2023	Figure 4

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2023 Plume maps\Residential Properties Sampled Nov 2023.srf



Legend

- 132.36 GROUNDWATER ELEVATION NOVEMBER 6, 2023 (FT MSL)
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (FT)
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDARY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDARY

Notes:
FT - feet
MSL - mean sea level
1. Water levels were collected by AECOM on November 6, 2023.
2. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

0 100 200 300 400 500 Feet

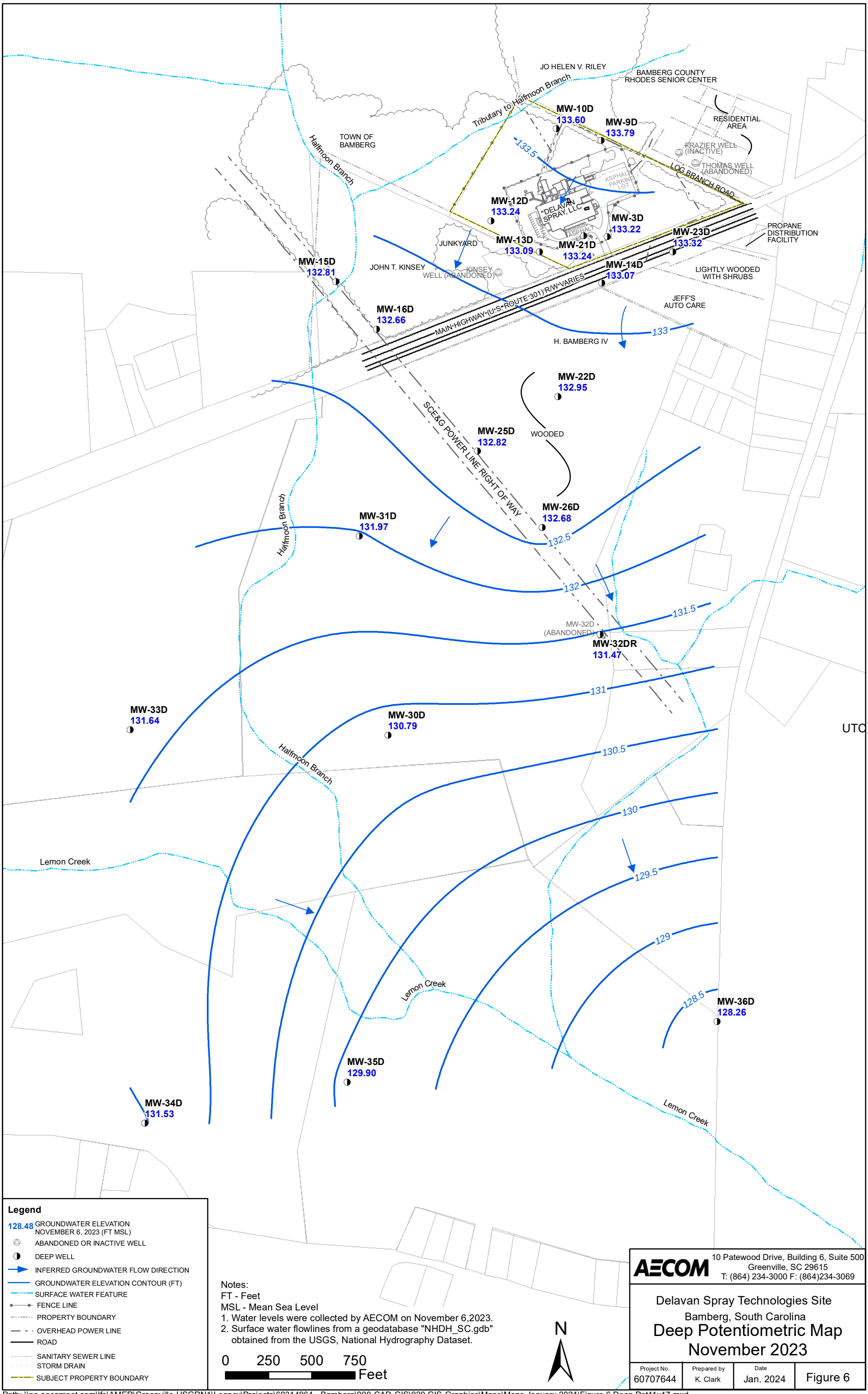
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Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

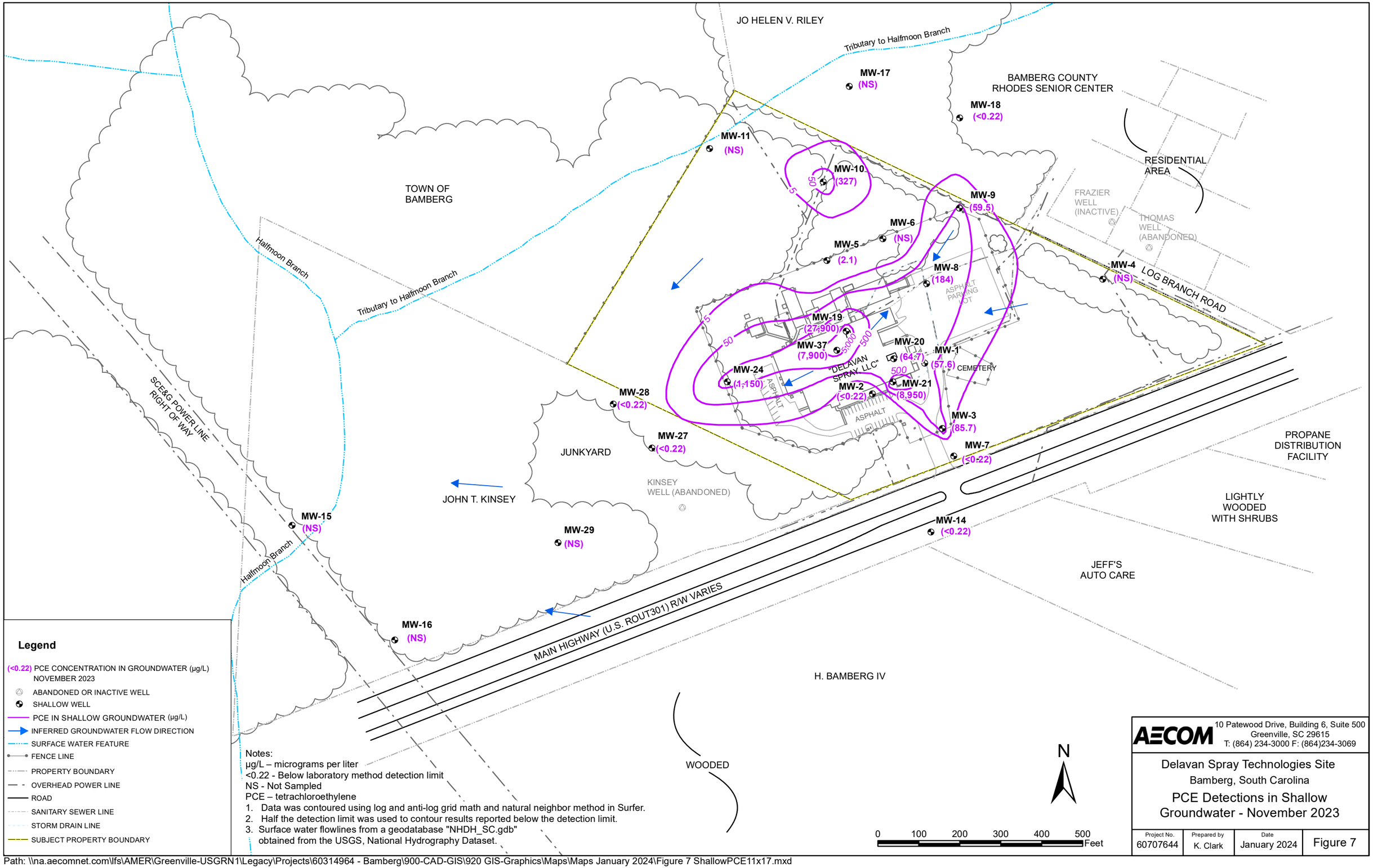
Shallow Potentiometric Map November 2023

Project No.	Prepared by	Date	
60707644	K. Clark	January 2024	Figure 5

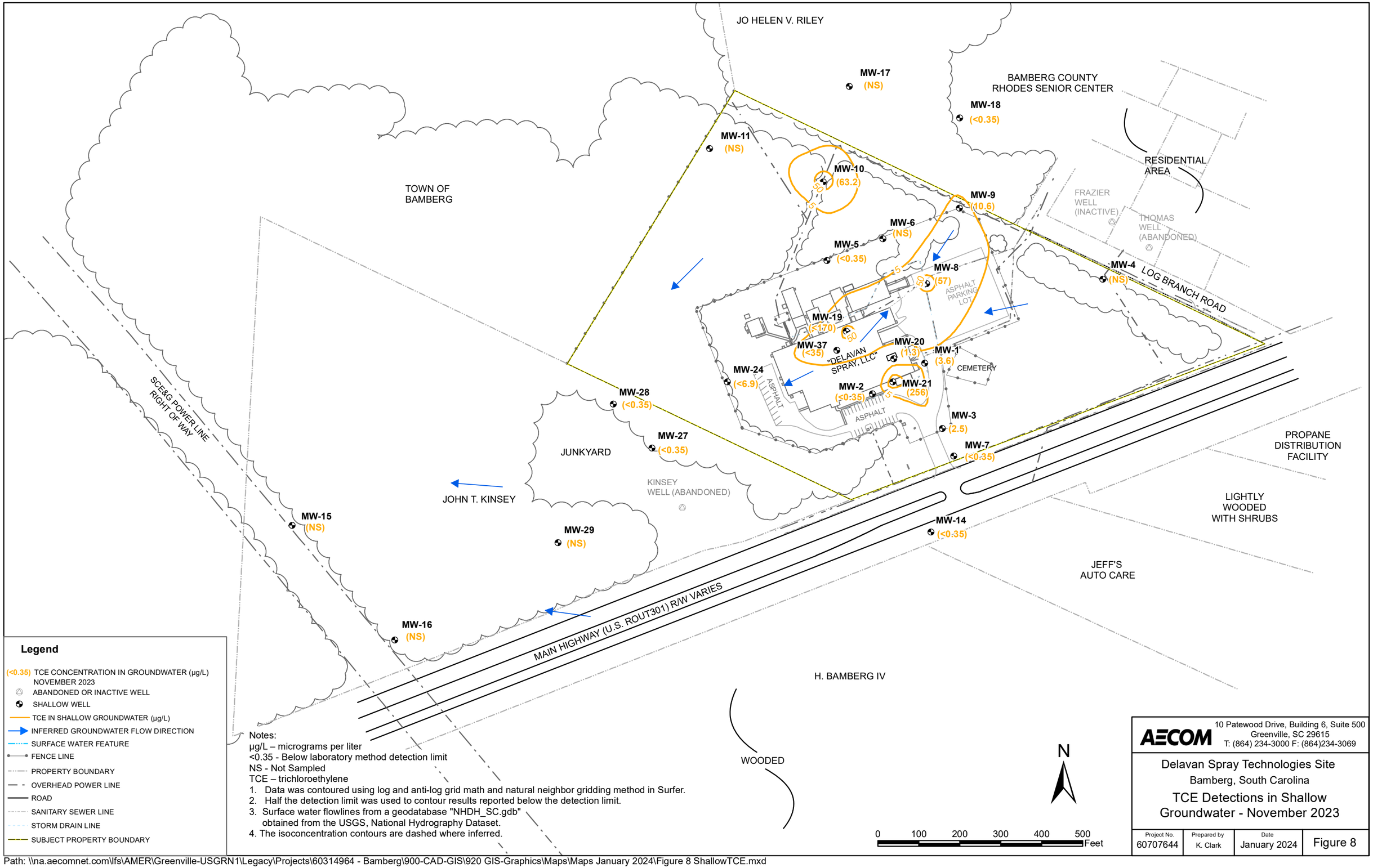
Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 5 ShallowPot.mxd



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Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 7 ShallowPCE11x17.mxd



Legend

- (<0.35) TCE CONCENTRATION IN GROUNDWATER (µg/L) NOVEMBER 2023
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- TCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDARY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDARY

Notes:
µg/L – micrograms per liter
<0.35 - Below laboratory method detection limit
NS - Not Sampled
TCE – trichloroethylene
1. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer.
2. Half the detection limit was used to contour results reported below the detection limit.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
4. The isoconcentration contours are dashed where inferred.

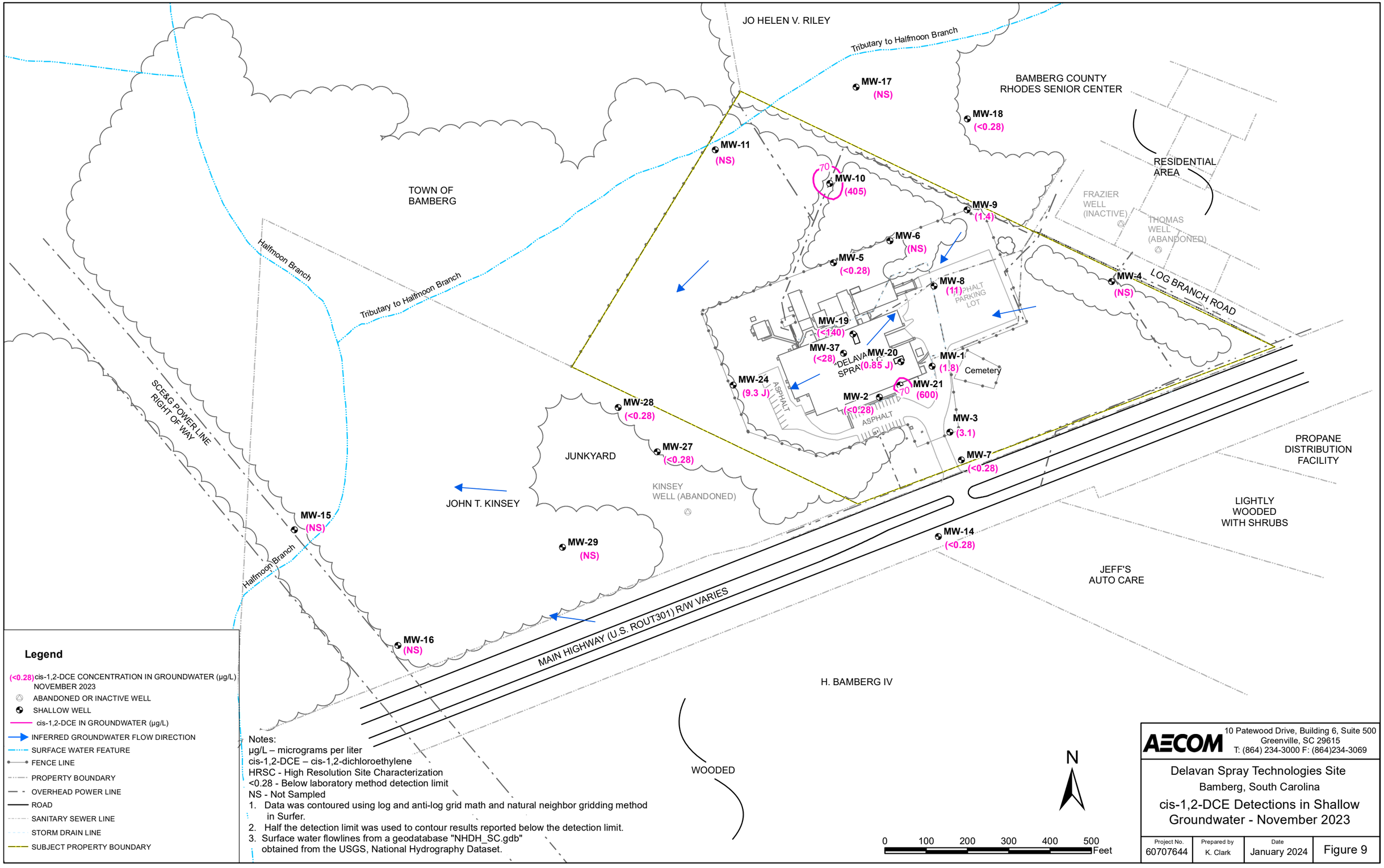
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Greenville, SC 29615
T: (864) 234-3000 F: (864)234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

TCE Detections in Shallow Groundwater - November 2023

Project No.	Prepared by	Date	
60707644	K. Clark	January 2024	Figure 8

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 8 ShallowTCE.mxd



Legend

- (<0.28) cis-1,2-DCE CONCENTRATION IN GROUNDWATER (µg/L) NOVEMBER 2023
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- cis-1,2-DCE IN GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDARY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDARY

Notes:
µg/L – micrograms per liter
cis-1,2-DCE – cis-1,2-dichloroethylene
HRSC - High Resolution Site Characterization
<0.28 - Below laboratory method detection limit
NS - Not Sampled
1. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer.
2. Half the detection limit was used to contour results reported below the detection limit.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

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Delavan Spray Technologies Site
Bamberg, South Carolina

cis-1,2-DCE Detections in Shallow Groundwater - November 2023

Project No.	Prepared by	Date	
60707644	K. Clark	January 2024	Figure 9

JO HELEN V. RILEY

Tributary to Halfmoon Branch

MW-17 (NS)

BAMBERG COUNTY RHODES SENIOR CENTER

MW-18 (<0.32)

MW-11 (NS)

TOWN OF BAMBERG

5

MW-10 (27)

RESIDENTIAL AREA

MW-9 (<0.32)

FRAZIER WELL (INACTIVE)

THOMAS WELL (ABANDONED)

MW-6 (NS)

MW-5 (<0.32)

MW-4 (NS)

LOG BRANCH ROAD

Halfmoon Branch

Tributary to Halfmoon Branch

MW-8 (<0.64)

ASPHALT PARKING LOT

MW-19 (<160)

5

5

MW-37 (<32)

MW-20 (<0.32)

MW-1 (<0.32)

metery

"DELAVAN SPRAY, LLC"

MW-24 (<6.4)

ASPHALT

5

MW-21 (<64)

MW-2 (<0.32)

ASPHALT

6"

MW-3 (<0.32)

SCE&G POWER LINE RIGHT OF WAY

MW-28 (<0.32)

MW-27 (<0.32)

JUNKYARD

MW-7 (<0.32)

PROPANE DISTRIBUTION FACILITY

KINSEY WELL (ABANDONED)

JOHN T. KINSEY

LIGHTLY WOODED WITH SHRUBS

MW-15 (NS)

MW-29 (NS)

MW-14 (<0.32)

Halfmoon Branch

JEFF'S AUTO CARE

MAIN HIGHWAY (U.S. ROUT301) R/W VARIES

MW-16 (NS)

H. BAMBERG IV

WOODED

Legend

- (<0.32) 1,1 - DCE CONCENTRATION IN GROUNDWATER (µg/L) NOVEMBER 2023
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- 1,1 - DCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDARY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDARY

Notes:
µg/L – micrograms per liter
<0.32 - Below laboratory method detection limit
NS - Not Sampled
1. Data was contoured using log and anti-log grid math and natural neighbor method in Surfer.
2. Half the detection limit was used to contour results reported below the detection limit.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

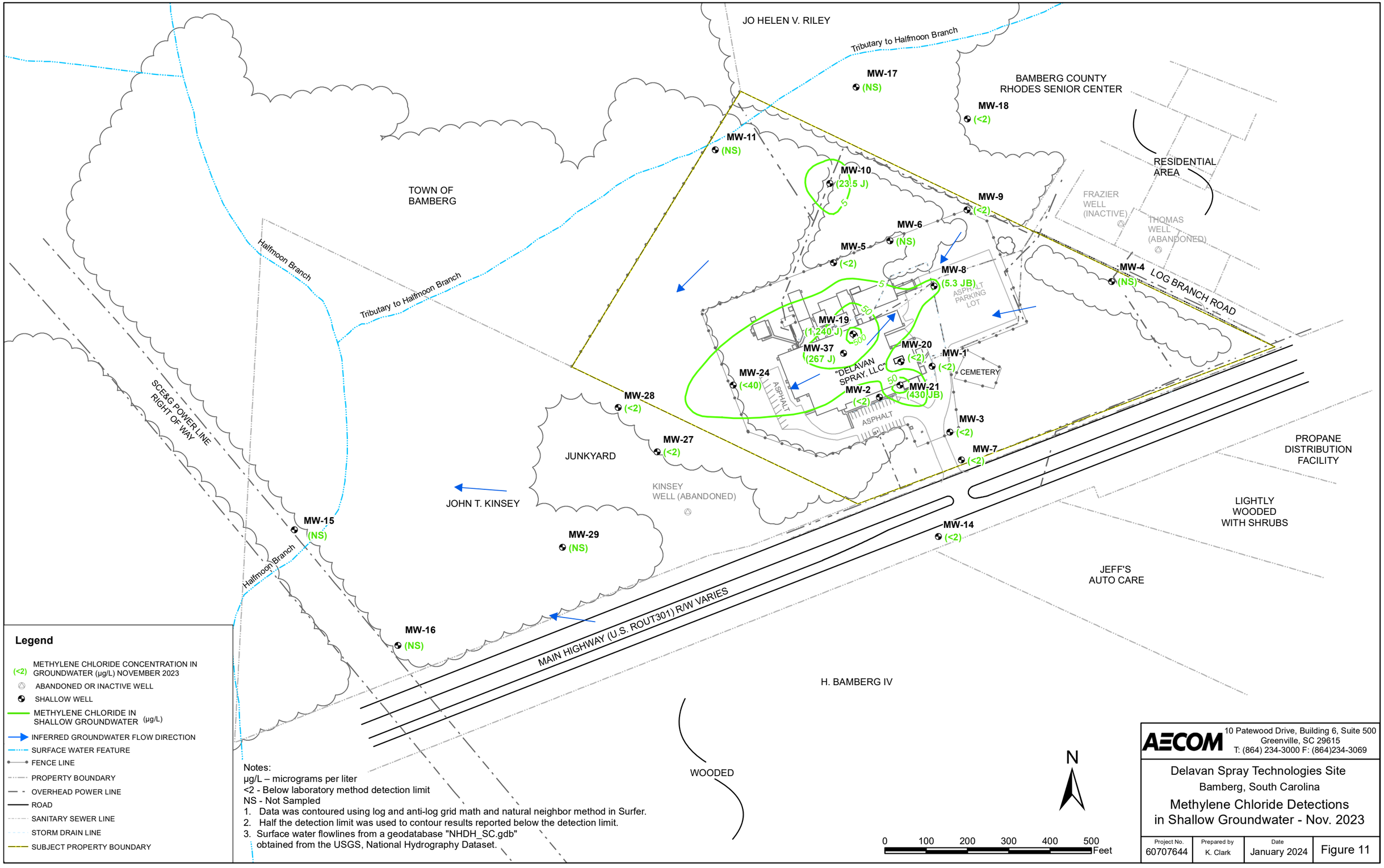
0 100 200 300 400 500 Feet

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10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina
1,1 - DCE Detections in Shallow Groundwater -November 2023

Project No.	Prepared by	Date	Figure
60707644	K. Clark	January 2024	Figure 10

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 10 Shallow_11DCE.mxd



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Delavan Spray Technologies Site
Bamberg, South Carolina

Methylene Chloride Detections in Shallow Groundwater - Nov. 2023

Project No.	Prepared by	Date	Figure
60707644	K. Clark	January 2024	Figure 11

JO HELEN V. RILEY
BAMBERG COUNTY RHODES SENIOR CENTER
Tributary to Halfmoon Branch
RESIDENTIAL AREA
TOWN OF BAMBERG
Halfmoon Branch
FRAZIER WELL (INACTIVE)
THOMAS WELL (ABANDONED)
LOG BRANCH ROAD
ASPHALT PARKING LOT
DELAVAN SPRAY, LLC
PROPANE DISTRIBUTION FACILITY
JUNKYARD
JOHN T. KINSEY
KINSEY WELL (ABANDONED)
LIGHTLY WOODED WITH SHRUBS
MAIN HIGHWAY (U.S. ROUTE 301) R/W VARIES
JEFF'S AUTO CARE
H. BAMBERG IV
SCE&G POWER LINE RIGHT OF WAY
WOODED
Halfmoon Branch
MW-32D (ABANDONED)
Halfmoon Branch
Lemon Creek
Lemon Creek
Lemon Creek
UTC

MW-10D (0.41 J)
MW-9D (NS)
MW-12D (17.5)
MW-21D (1.4)
MW-3D1 (NS)
MW-3D (261)
MW-13D (70.6)
MW-23D (NS)
MW-14D (35.5)
MW-15D1 (NS)
MW-15D (NS)
MW-16D (NS)
MW-22D (79.3)
MW-25D (63.3)
MW-26D (42.3)
MW-31D (128)
MW-32DR (19.1)
MW-33D (<0.22)
MW-30D (53.2)
MW-36D (<0.22)
MW-35D (<0.22)
MW-34D (<0.22)

5
50
50

Legend

- 128.48 GROUNDWATER ELEVATION NOVEMBER 6, 2023 (FT MSL)
- ABANDONED OR INACTIVE WELL
- DEEP WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- PCE IN DEEP GROUNDWATER (µg/L)
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDARY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN
- SUBJECT PROPERTY BOUNDARY

Notes:
µg/L – micrograms per liter
<0.22 - Below laboratory method detection limit
NS - Not Sampled
PCE - tetrachloroethy lene
1. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer
2.Half the detection limit was used to contour results reported below the detection limit.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

0 250 500 750 Feet

N

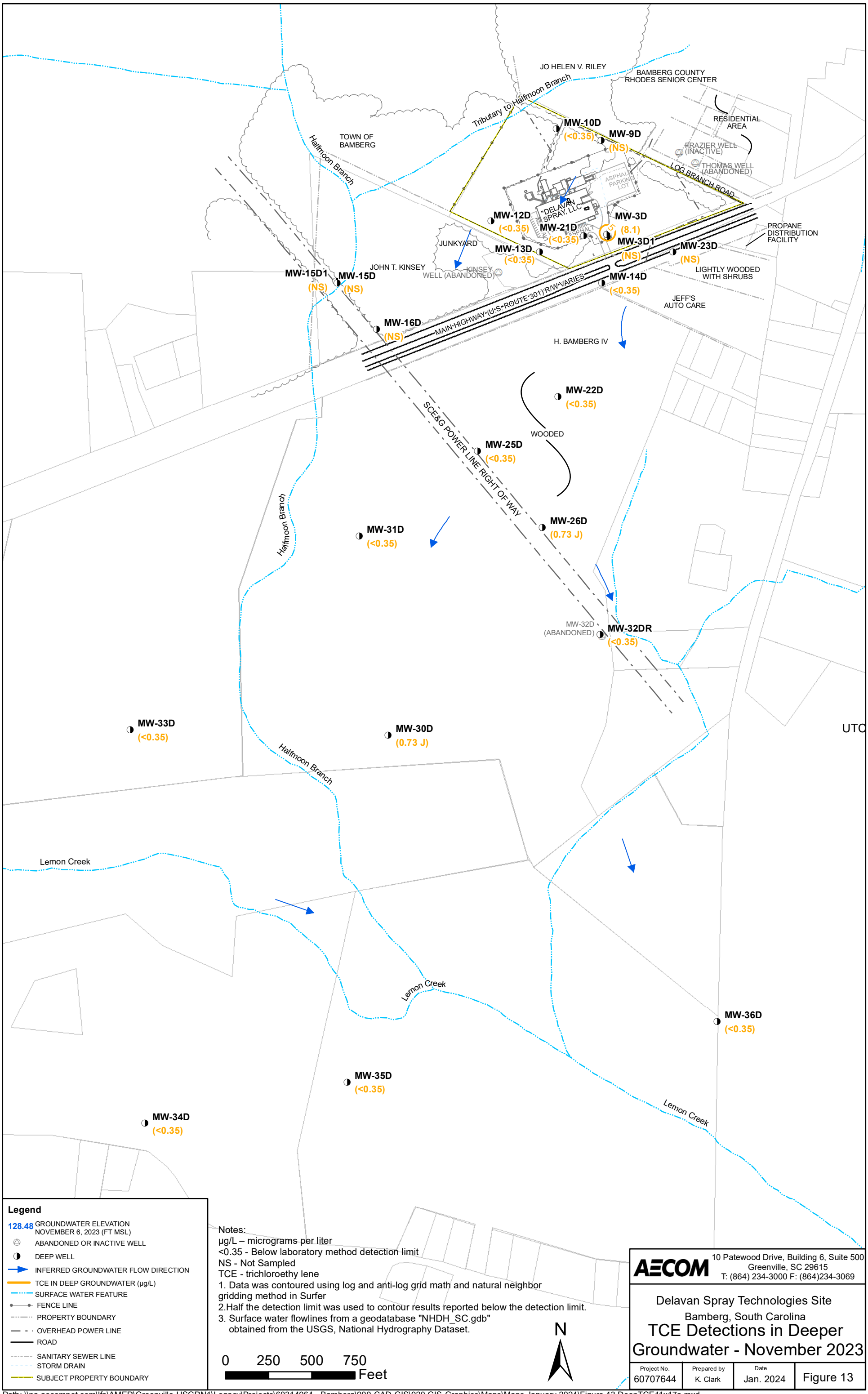
AECOM
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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Deeper Groundwater - November 2023

Project No.	Prepared by	Date	
60707644	K. Clark	Jan. 2024	Figure 12

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 12 DeepPCE11x17.mxd



Legend

- 128.48 GROUNDWATER ELEVATION NOVEMBER 6, 2023 (FT MSL)
- ABANDONED OR INACTIVE WELL
- DEEP WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- TCE IN DEEP GROUNDWATER (µg/L)
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDARY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN
- SUBJECT PROPERTY BOUNDARY

Notes:
µg/L – micrograms per liter
<0.35 - Below laboratory method detection limit
NS - Not Sampled
TCE - trichloroethy lene
1. Data was contoured using log and anti-log grid math and natural neighbor gridding method in Surfer
2.Half the detection limit was used to contour results reported below the detection limit.
3. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

0 250 500 750 Feet

N

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Delavan Spray Technologies Site
Bamberg, South Carolina

TCE Detections in Deeper Groundwater - November 2023

Project No.	Prepared by	Date	
60707644	K. Clark	Jan. 2024	Figure 13

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2024\Figure 13 DeepTCE11x17a.mxd

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Delavan Spray Technologies Site

Bamberg, South Carolina

PCE Detections in Surface Water – November 2023

Project No.	Prepared by	Date	
60707644	K.Clark	January 2023	Figure 14

Tributary to Halfmoon Branch

SW-03-HMB
(<0.22)

301

601

Halfmoon Branch

SW-04-TLC
(NS -Dry)

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

Lemon Creek

Lemon Creek Rd.

SW-01-LC
(1.4)

Orangegrove Rd

SW-05-LC
(0.7 J)

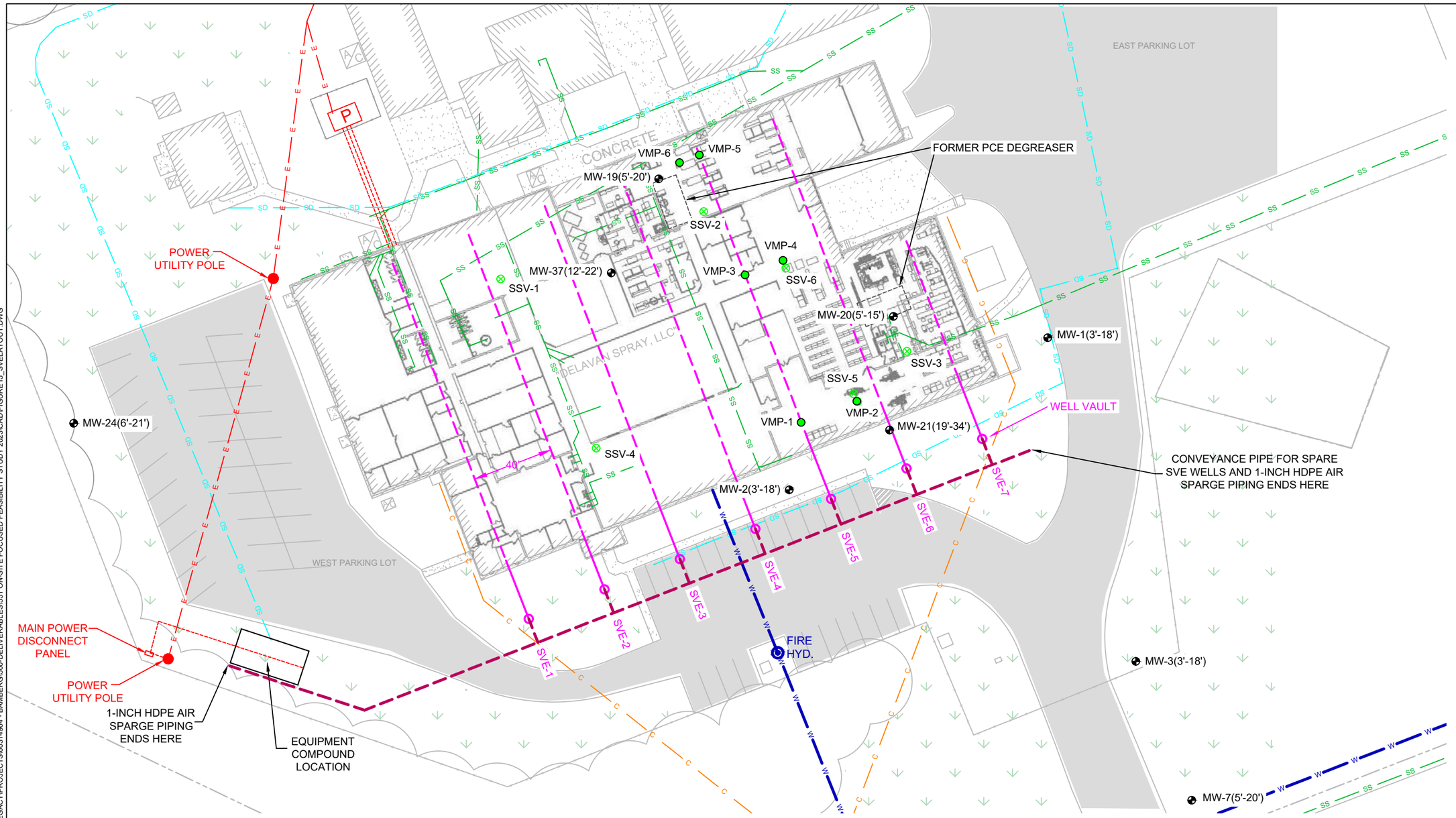
Notes:
µg/L - micrograms per liter
NS - Not Sampled
PCE - Tetrachloroethylene
method detection limit and the practical quantitation limit.
1) Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

Legend

- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- < 0.26 MONITORING WELL PCE CONCETRATION (µg/L) - NOVEMBER 2023
- SURFACE WATER SAMPLE LOCATION
- SURFACE WATER
- PROPERTY BOUNDARY

N

0 500 1,000 1,500 Feet



LEGEND

◓	MONITORING WELL
(3'-18')	WELL SCREEN INTERVAL IN FEET
⊗	SUB-SLAB VAPOR PIN
●	SOIL VAPOR MONITORING POINT
	PROPERTY BOUNDARY
SS	SANITARY SEWER LINE (APPROXIMATE)
SD	STORMWATER DRAIN LINE (APPROXIMATE)
W	WATER LINE (APPROXIMATE)
E	OVERHEAD ELECTRICAL LINES (APPROXIMATE)
	UNDERGROUND ELECTRICAL LINES (APPROXIMATE)
C	COMMUNICATIONS UTILITY (APPROXIMATE)
	FENCE
	SVE WELL RISER SECTION
	SVE WELL SCREENED SECTION
	SVE CONVEYANCE PIPE TRENCH
	ASPHALT
	GRASS
	CONCRETE

0 25 50 100
SCALE IN FEET

N

AECOM

PROJECT
DELAVAN SPRAY TECHNOLOGIES SITE

4334 Main Highway
Bamberg, South Carolina 29003

PREPARED FOR
Delavan Technologies

PREPARED BY
AECOM Technical Services, Inc.
5438 Wade Park Blvd, Suite 200
Raleigh, NC 27607
919.461.100 tel 919.461.1235 fax
www.aecom.com

DATE
FEBRUARY 2023

PROJECT NUMBER
60681452

SHEET TITLE
SVE REMEDIATION SYSTEM LAYOUT

FIGURE NUMBER
15

Project Management Initials: Designer:ID Checked:IR ApprovedJZ

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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)	4/12/2021		10/18/2021		4/12/2022		10/24/2022		4/24/2023		11/6/2023	
							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	11.57	135.62	12.21	134.98	11.61	135.58	13.05	134.14	10.75	136.44	12.59	134.60
MW-2	18	--	3-18	Shallow	147.81	147.63	10.61	137.02	12.05	135.58	11.06	136.57	13.08	134.55	9.70	137.93	12.67	134.96
MW-3	18	--	3-18	Shallow	148.34	148.11	13.22	134.89	13.86	134.25	12.95	135.16	14.07	134.04	12.38	135.73	13.98	134.13
MW-3D	49	24	44-49	Deeper Limestone	148.28	148.12	13.90	134.22	14.71	133.41	13.74	134.38	15.38	132.74	13.50	134.62	14.90	133.22
MW-3D1	85	65	75-85	Deep Sandstone	148.12	147.93	13.69	134.24	14.54	133.39	13.54	134.39	15.19	132.74	13.30	134.63	14.69	133.24
MW-4	14	--	4-14	Shallow	147.30	147.03	6.99	140.04	9.00	138.03	6.09	140.94	11.58	135.45	4.94	142.09	10.40	136.63
MW-5	14	--	4-14	Shallow	145.34	145.46	7.73	137.73	10.17	135.29	6.59	138.87	11.54	133.92	5.45	140.01	10.76	134.70
MW-6	14	--	4-14	Shallow	143.45	143.22	5.16	138.06	7.52	135.70	4.28	138.94	9.38	133.84	3.38	139.84	8.54	134.68
MW-7	20	--	5-20	Shallow	149.25	149.03	13.37	135.66	14.02	135.01	12.95	136.08	14.60	134.43	12.03	137.00	14.39	134.64
MW-8	20	--	5-20	Shallow	145.95	145.66	10.60	135.06	11.57	134.09	10.41	135.25	12.35	133.31	9.70	135.96	11.79	133.87
MW-9	20	--	5-20	Shallow	144.11	143.89	5.58	138.31	7.33	136.56	4.69	139.20	9.37	134.52	4.55	139.34	8.65	135.24
MW-9D	49	24	44-49	Deeper Limestone	144.48	144.20	9.37	134.83	10.25	133.95	9.21	134.99	10.95	133.25	8.96	135.24	10.41	133.79
MW-10	18	--	3-18	Shallow	142.56	142.19	4.55	137.64	7.02	135.17	3.78	138.41	8.82	133.37	3.23	138.96	7.88	134.31
MW-10D	48	30	43-48	Deeper Limestone	142.08	141.79	7.21	134.58	8.09	133.70	7.05	134.74	8.76	133.03	6.80	134.99	8.19	133.60
MW-11	18	--	3-18	Shallow	143.77	143.16	7.12	136.04	8.12	135.04	6.85	136.31	8.86	134.30	6.55	136.61	8.47	134.69
MW-12D	50	30	40-50	Deeper Limestone	147.86	147.65	13.44	134.21	14.29	133.36	13.02	134.63	14.92	132.73	13.08	134.57	14.41	133.24
MW-13D	50	30	40-50	Deeper Limestone	146.41	146.23	12.21	134.02	13.01	133.22	12.03	134.20	13.63	132.60	11.80	134.43	13.14	133.09
MW-14	20	--	5-20	Shallow	147.05	146.90	11.20	135.70	11.97	134.93	10.71	136.19	12.82	134.08	10.38	136.52	12.64	134.26
MW-14D	50	29	40-50	Deeper Limestone	147.11	146.88	12.87	134.01	13.64	133.24	12.70	134.18	14.30	132.58	12.47	134.41	13.81	133.07
MW-15	18	--	4-19	Shallow	136.13	135.73	3.37	132.36	4.12	131.61	NM	NM	5.10	130.63	NM	NM	4.52	131.21
MW-15D	45	30	35-45	Deeper Limestone	135.93	135.59	2.06	133.53	2.69	132.90	NM	NM	3.19	132.40	NM	NM	2.78	132.81
MW-15D1	85	65	75-85	Deep Sandstone	135.94	135.69	2.20	133.49	2.79	132.90	NM	NM	3.33	132.36	NM	NM	2.91	132.78
MW-16	19	--	4-19	Shallow	138.74	138.30	3.25	135.05	5.15	133.15	2.66	135.64	6.22	132.08	2.82	135.48	5.50	132.80
MW-16D	45	29	35-45	Deeper Limestone	138.70	138.38	4.94	133.44	5.61	132.77	4.81	133.57	6.14	132.24	4.62	133.76	5.72	132.66
MW-17	28.4	--	13-28	Shallow	142.07	141.66	3.18	138.48	4.87	136.79	2.68	138.98	6.69	134.97	2.84	138.82	5.51	136.15
MW-18	26.4	--	11-26	Shallow	145.68	145.41	10.00	135.41	11.05	134.36	9.83	135.58	11.87	133.54	9.52	135.89	11.24	134.17
MW-19	20.15	--	5-20	Shallow	148.47	148.22	11.80	136.42	13.03	135.19	12.11	136.11	13.98	134.24	10.77	137.45	13.50	134.72
MW-20	15.15	--	5-15	Shallow	148.50	148.19	11.50	136.69	12.77	135.42	11.85	136.34	13.78	134.41	10.49	137.70	13.38	134.81
MW-21	34.4	--	19-34	Shallow	148.43	147.97	12.13	135.84	13.28	134.69	12.21	135.76	14.13	133.84	11.43	136.54	13.62	134.35
MW-21D	53.4	31.5	43-53	Deeper Limestone	147.28	146.92	12.69	134.23	13.52	133.40	12.54	134.38	14.16	132.76	12.29	134.63	13.68	133.24
MW-22D	48.4	36	38-48	Deeper Limestone	146.42	145.96	12.11	133.85	12.85	133.11	11.95	134.01	13.49	132.47	11.72	134.24	13.01	132.95
MW-23D	50.4	34	40-50	Deeper Limestone	148.48	148.26	13.93	134.33	14.78	133.48	13.73	134.53	15.48	132.78	13.51	134.75	14.94	133.32
MW-24	21	--	6-21	Shallow	148.52	147.85	13.38	134.47	14.40	133.45	13.33	134.52	14.95	132.90	12.95	134.90	14.43	133.42
MW-25D	62	--	52-62	Deeper Limestone	139.30	139.21	5.50	133.71	6.22	132.99	4.39	134.82	6.85	132.36	5.14	134.07	6.39	132.82
MW-26D	48	--	38-48	Deeper Limestone	143.83	143.64	10.16	133.48	10.82	132.82	9.96	133.68	11.43	132.21	9.75	133.89	10.96	132.68
MW-27	29	--	19 - 29	Shallow	145.93	145.78	7.78	138.00	10.41	135.37	8.09	137.69	12.27	133.51	6.96	138.82	11.38	134.40
MW-28	29	--	19 - 29	Shallow	146.35	146.12	12.52	133.60	12.79	133.33	11.83	134.29	13.43	132.69	11.59	134.53	12.92	133.20
MW-29	29	--	19 - 29	Shallow	141.03	140.55	6.73	133.82	7.31	133.24	6.43	134.12	7.93	132.62	6.20	134.35	7.44	133.11
MW-30D	60	--	50 - 60	Deeper Limestone	135.90	136.01	5.90	130.11	5.20	130.81	4.95	131.06	5.53	130.48	4.84	131.17	5.22	130.79
MW-31D	60	--	50 - 60	Deeper Limestone	141.39	141.39	8.93	132.46	9.35	132.04	8.82	132.57	9.77	131.62	8.67	132.72	9.42	131.97
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	Abandoned		Abandoned		Abandoned		Abandoned		Abandoned		Abandoned	
MW-32DR	60	--	50 - 60	Deeper Limestone	139.20	138.88	6.76	132.12	7.22	131.66	6.65	132.23	7.80	131.08	6.51	132.37	7.41	131.47
MW-33D	74.39	--	64.09 - 74.02	Deeper Limestone	142.14	144.79	13.00	131.79	13.24	131.55	12.91	131.88	13.39	131.40	12.78	132.01	13.15	131.64
MW-34D	79.78	--	69.44 - 79.40	Deeper Limestone	142.70	145.71	13.83	131.88	14.15	131.56	13.80	131.91	14.35	131.36	13.72	131.99	14.18	131.53
MW-35D	74.56	--	64.25 - 74.18	Deeper Limestone	139.26	141.95	11.85	130.10	12.00	129.95	11.83	130.12	12.28	129.67	11.80	130.15	12.05	129.90
MW-36D	64.29	--	53.99 - 63.92	Deeper Limestone	128.57	130.93	2.46	128.47	2.67	128.26	2.37	128.56	2.90	128.03	2.38	128.55	2.67	128.26
MW-37	22.07	--	11.81 - 21.81	Shallow	148.64	148.36	11.49	136.87	12.79	135.57	11.91	136.45	13.75	134.61	10.40	137.96	13.29	135.07

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

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)	(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
4/12/2021	1.86E-02	-5.97E-04	1.02E-01	8.74E-02	5.20E-02	-4.11E-02	1.00E-03	5.65E-02	7.49E-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
4/12/2022	2.17E-02	-2.99E-04	1.24E-01	1.05E-01	6.18E-02	NM	NM	7.26E-02	6.42E-02
10/24/2022	3.61E-02	0.00E+00	3.74E-02	9.66E-03	4.62E-02	-6.21E-02	1.00E-03	-5.61E-03	5.02E-02
4/24/2023	3.08E-02	-2.99E-04	1.21E-01	1.13E-01	6.49E-02	NM	NM	6.04E-02	8.88E-02
11/6/2023	2.53E-02	-5.97E-04	4.26E-02	2.03E-02	3.66E-02	-5.61E-02	7.50E-04	4.91E-03	5.16E-02

Notes:
NI - not installed NM - no measurement collected
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	Date	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	ORP (mV)	Turbidity (NTUs)
MW-1	11/8/2023	33.35	0.04	4.87	5.18	128.2	265.41
MW-2	11/8/2023	34.06	0.03	2.84	6.84	87.5	685.03
MW-3	11/8/2023	31.27	0.03	4.80	5.91	95.9	44.36
MW-3D	11/8/2023	32.15	0.22	3.91	7.23	63.0	149.58
MW-5	11/8/2023	31.51	0.03	4.84	6.05	90.9	105.98
MW-7	11/8/2023	35.14	0.02	5.80	5.65	146.0	257.40
MW-8	11/8/2023	34.53	0.11	3.56	5.27	153.3	3.52
MW-9	11/8/2023	28.73	0.04	3.12	5.83	110.2	455.70
MW-10	11/8/2023	28.00	0.06	1.87	5.54	25.1	1.14
MW-10D	11/8/2023	27.22	0.24	4.76	7.26	-34.7	496.97
MW-12D	11/8/2023	27.63	0.18	5.49	11.60	-59.6	22.16
MW-13D	11/8/2023	27.91	0.27	3.42	8.75	33.4	57.98
MW-14	11/8/2023	29.43	0.04	7.70	7.09	14.7	106.91
MW-14D	11/8/2023	28.74	0.25	8.83	7.56	49.6	50.71
MW-18	11/8/2023	28.33	0.05	4.68	5.37	144.7	2.08
MW-19	11/8/2023	32.79	0.00	6.34	5.62	136.2	1.94
MW-20	11/8/2023	-	-	-	-	-	-
MW-21	11/8/2023	32.13	0.02	8.34	5.48	75.0	16.39
MW-21D	11/8/2023	31.09	0.32	1.68	8.31	36.7	122.32
MW-22D	11/8/2023	28.82	0.06	8.60	7.56	75.3	2.13
MW-24	11/8/2023	33.26	0.02	6.54	5.62	149.3	28.28
MW-25D	11/8/2023	29.53	0.33	7.46	7.52	59.4	58.95
MW-26D	11/8/2023	29.98	0.39	3.38	7.98	68.7	49.18
MW-27	11/8/2023	28.19	0.06	8.35	5.94	91.6	88.21
MW-28	11/8/2023	29.00	0.08	4.16	6.27	83.1	97.12
MW-30D	11/8/2023	26.02	0.05	8.08	7.71	22.9	624.9
MW-31D	11/8/2023	27.25	0.13	4.76	7.91	43.4	1385.0
MW-32DR	11/8/2023	28.94	0.25	8.91	7.49	62.7	182.11
MW-33D	11/8/2023	25.20	0.05	7.55	8.01	-73.9	327.15
MW-34D	11/8/2023	23.32	0.10	8.69	9.96	104.7	9.36
MW-35D	11/8/2023	24.18	0.29	6.81	8.12	111.7	35.96
MW-36D	11/8/2023	23.52	0.21	7.56	7.65	-93.7	80.21
MW-37	11/8/2023	33.35	0.00	9.17	5.56	120.7	0.53

Notes:

°C - degrees Celsius
mg/L - milligrams per liter
mS/cm - milliSiemens per centimeter
mV - millivolts
ORP - oxidation-reduction potential
NM- No measurement
S.U. - standard units
NTUs - Nephelometric Turbidity Units

1. Parameters could not be collected from MW-20 because there was insufficient water after the sample was collected.

Table 4
Summary of Analytical Results for Detected Compounds in Groundwater Samples
RTX - Delavan
Bamberg, South Carolina

Sample ID		MW-1	MW-2	MW-3	MW-3D	MW-5
Lab Sample ID	USEPA	FC11130-28	FC11130-26	FC11130-23	FC11130-24	FC11130-34
Date Collected	MCL	11/08/23	11/08/23	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32	**5.7**	< 0.32
Acetone	--	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethylene	70	**1.8**	< 0.28	**3.1**	**9.8**	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 2
Tetrachloroethylene	5	**57.6**	< 0.22	**85.7**	**261**	**2.1**
Toluene	1,000	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trichloroethylene	5	**3.6**	< 0.35	**2.5**	**8.1**	< 0.35

Sample ID		MW-7	MW-8	MW-9	MW-10	MW-10D
Lab Sample ID	USEPA	FC11130-31	FC11130-29	FC11130-18	FC11130-16	FC11130-17
Date Collected	MCL	11/08/23	11/08/23	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.5	< 0.25	< 2.5	< 0.25
1,1-Dichloroethylene	7	< 0.32	< 0.64	< 0.32	**27**	< 0.32
Acetone	--	< 10	< 20	< 10	< 100	< 10
cis-1,2-Dichloroethylene	70	< 0.28	**11**	**1.4**	**405**	< 0.28
Ethylbenzene	700	< 0.36	< 0.71	< 0.36	**3.8 J//**	< 0.36
Methylene Chloride	5	< 2	5.3 JB/B/L	< 2	**23.5 J//**	< 2
Tetrachloroethylene	5	< 0.22	**184**	**59.5**	**327**	**0.41 J//**
Toluene	1,000	0.34 J/B/T	< 0.6	< 0.3	< 3	0.36 J/B/T
Trichloroethylene	5	< 0.35	**57**	**10.6**	**63.2**	< 0.35

Sample ID		MW-12D	MW-13D	MW-14	MW-14D	MW-18
Lab Sample ID	USEPA	FC11130-21	FC11130-22	FC11130-12	FC11130-13	FC11130-15
Date Collected	MCL	11/08/23	11/08/23	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	**0.29 J//**	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	< 0.32	**2.1**	< 0.32	**0.4 J//**	< 0.32
Acetone	--	**10.5 J//**	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 2
Tetrachloroethylene	5	**17.5**	**70.6**	< 0.22	**35.5**	< 0.22
Toluene	1,000	< 0.3	< 0.3	< 0.3	< 0.3	0.82 J/B/T
Trichloroethylene	5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35

Sample ID		MW-19	MW-20	MW-21	MW-21D	MW-22D
Lab Sample ID	USEPA	FC11130-36	FC11130-37	FC11130-27	FC11130-25	FC11130-10
Date Collected	MCL	11/08/23	11/08/23	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 120	< 0.25	< 50	< 0.25	< 0.25
1,1-Dichloroethylene	7	< 160	< 0.32	< 64	< 0.32	**1.5**
Acetone	--	< 5000	**12.5 J/J/C**	< 2000	< 10	< 10
cis-1,2-Dichloroethylene	70	< 140	**0.85 J//**	**600**	< 0.28	< 0.28
Ethylbenzene	700	< 180	< 0.36	< 71	< 0.36	< 0.36
Methylene Chloride	5	**1240 J//**	< 2	**430 JB//**	< 2	< 2
Tetrachloroethylene	5	**27900**	**64.7**	**8950**	**1.4**	**79.3**
Toluene	1,000	< 150	0.89 J/B/T	< 60	< 0.3	0.47 J/B/T
Trichloroethylene	5	< 170	**1.3**	**256**	< 0.35	< 0.35

Table 4
Summary of Analytical Results for Detected Compounds in Groundwater Samples
RTX - Delavan
Bamberg, South Carolina

Sample ID		MW-24	MW-25D	MW-26D	MW-27	MW-28
Lab Sample ID	USEPA	FC11130-32	FC11130-7	FC11130-9	FC11130-20	FC11130-19
Date Collected	MCL	11/08/23	11/08/23	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 5	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	< 6.4	**1.2**	**0.72 J//**	< 0.32	< 0.32
Acetone	--	< 200	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethylene	70	**9.3 J//**	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 7.1	< 0.36	< 0.36	< 0.36	< 0.36
Methylene Chloride	5	< 40	< 2	< 2	< 2	< 2
Tetrachloroethylene	5	**1150**	**63.3**	**42.3**	< 0.22	< 0.22
Toluene	1,000	< 6	< 0.3	< 0.3	< 0.3	< 0.3
Trichloroethylene	5	< 6.9	< 0.35	**0.73 J//**	< 0.35	< 0.35

Sample ID		MW-30D	MW-31D	MW-32DR	MW-33D	MW-34D
Lab Sample ID	USEPA	FC11130-5	FC11130-6	FC11130-8	FC11130-4	FC11130-1
Date Collected	MCL	11/08/23	11/08/23	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)						
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	**1.2**	**3.7**	< 0.32	< 0.32	< 0.32
Acetone	--	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Ethylbenzene	700	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 2
Tetrachloroethylene	5	**53.2**	**128**	**19.1**	< 0.22	< 0.22
Toluene	1,000	0.62 J/B/T	< 0.3	< 0.3	0.9 J/B/T	< 0.3
Trichloroethylene	5	**0.73 J//**	< 0.35	< 0.35	< 0.35	< 0.35

Sample ID		MW-35D	MW-36D	MW-37
Lab Sample ID	USEPA	FC11130-2	FC11130-3	FC11130-35
Date Collected	MCL	11/08/23	11/08/23	11/08/23
Volatile Organic Compounds by Method 8260D (µg/L)				
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 25
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 32
Acetone	--	< 10	< 10	< 1000
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 28
Ethylbenzene	700	< 0.36	< 0.36	< 36
Methylene Chloride	5	< 2	< 2	**267 J//**
Tetrachloroethylene	5	< 0.22	< 0.22	**7900**
Toluene	1,000	< 0.3	1.5 /B/T	< 30
Trichloroethylene	5	< 0.35	< 0.35	< 35

Notes:
µg/L - micrograms per liter (parts per billion)
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (March, 2018).
— - 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 General Chemistry Parameters in Groundwater Samples
RTX - Delavan
Bamberg, South Carolina

Sample ID	MW-3D	MW-13D	MW-14D	MW-21D	MW-22D
Lab Sample ID	FC11040-8	FC11040-2	FC11040-4	FC11040-6	FC11040-10
Date Collected	11/07/23	11/07/23	11/07/23	11/07/23	11/07/23
Metals by 6010D (µg/L)					
Iron	**411**	**233 J//**	**678**	**393**	**63.8 J//**
Manganese	**15.1**	**5.3 J//**	**39.7**	**10.5 J//**	**2 J//**
Ferric Iron by SM3500 Fe B-11 (mg/L)					
Iron, Ferric	**0.41**	**0.23 J//**	**0.58**	**0.35 J//**	**0.06 J//**
Ferrous Iron by SM3500 Fe B-11 (mg/L)					
Iron, Ferrous	< 0.03	< 0.03	**0.1 J//**	**0.05 J//**	< 0.03
Anions by 9056A (mg/L)					
Chloride	**8.5**	**10.7**	**5.1**	**4.5**	**8.3**
Nitrogen, Nitrate	**1**	**1.6**	**0.22**	**0.15**	**1.5**
Sulfate	**2.7**	**2.3**	**4.4**	**2.6**	**3.7**
Sulfide by SM4500S2 F-11 (mg/L)					
Sulfide	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dissolved Gases by RSK-175 (µg/L)					
Acetylene	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Ethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Ethene	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Methane	**0.42 J//**	**0.36 J//**	**0.24 J//**	**0.82**	**0.4 J//**

Sample ID	MW-25D	MW-26D	MW-30D	MW-31D	MW-32DR
Lab Sample ID	FC11040-7	FC11040-9	FC11040-1	FC11040-3	FC11040-5
Date Collected	11/07/23	11/07/23	11/07/23	11/07/23	11/07/23
Metals by 6010D (µg/L)					
Iron	**35.5 J//**	**29.4 J//**	**74.9 J//**	**50.1 J//**	**18 J//**
Manganese	< 1	< 1	**2.9 J//**	**1.2 J//**	< 1
Ferric Iron by SM3500 Fe B-11 (mg/L)					
Iron, Ferric	< 0.05	< 0.05	**0.08 J//**	**0.05 J//**	< 0.05
Ferrous Iron by SM3500 Fe B-11 (mg/L)					
Iron, Ferrous	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Anions by 9056A (mg/L)					
Chloride	**10.1**	**10.4**	**9.6**	**9.9**	**8.8**
Nitrogen, Nitrate	**1.2**	**1.3**	**1.3**	**1.6**	**1**
Sulfate	**3.2**	**3.8**	**3.6**	**2.3**	**2.4**
Sulfide by SM4500S2 F-11 (mg/L)					
Sulfide	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Dissolved Gases by RSK-175 (µg/L)					
Acetylene	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Ethane	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Ethene	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Methane	< 0.16	< 0.16	< 0.16	**0.32 J//**	**0.5**

Notes:

mg/L - milligrams per liter (parts per million)

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 6
Summary of Analytical Results for Detected Compounds in Surface Water Samples
RTX - Delavan
Bamberg, South Carolina

Sample ID			SW-01-LC	SW-02-LC	SW-03-HMB	SW-05-LC
Lab Sample ID	USEPA	SCDHEC	FC11130-41	FC11130-39	FC11130-40	FC11130-42
Date Collected	MCL	WCS	11/07/23	11/07/23	11/07/23	11/07/23
Volatile Organic Compounds by Method 8260D (µg/L)						
Tetrachloroethylene	5	3.3	**1.4**	< 0.22	< 0.22	**0.7 J**

Notes:
µg/L - micrograms per liter (parts per billion)
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (Mar 2018).
Bold font and shading indicate the concentration is detected.
SCDHEC WCS - South Carolina Department of Health and Environmental Control R.61-68 Water Classifications and Standards for Consumption of Organism Only (June 2014)
See Table 8 for explanation of data qualifiers.

Table 7
Summary of QA/QC Sample Results
RTX - Delavan
Bamberg, South Carolina

Sample ID	MW-8	MW-8-A	Relative	MW-14D	MW-14D-A	Relative
Lab Sample ID	FC11130-29	FC11130-30	Percent	FC11130-13	FC11130-14	Percent
Date Collected	11/08/23	11/08/23	Difference	11/08/23	11/08/23	Difference
Volatile Organic Compounds by 8260D (µg/L)						
1,1,1-Trichloroethane	< 0.5	< 1.2	NC	< 0.25	< 0.25	NC
1,1,2,2-Tetrachloroethane	< 0.6	< 1.5	NC	< 0.3	< 0.3	NC
1,1,2-Trichloroethane	< 0.93	< 2.3	NC	< 0.47	< 0.47	NC
1,1-Dichloroethane	< 0.68	< 1.7	NC	< 0.34	< 0.34	NC
1,1-Dichloroethylene	< 0.64	< 1.6	NC	**0.4 J//**	**0.87 J//**	NC
1,2-Dichloroethane	< 0.62	< 1.6	NC	< 0.31	< 0.31	NC
1,2-Dichloropropane	< 0.85	< 2.1	NC	< 0.43	< 0.43	NC
2-Butanone (MEK)	< 4	< 10	NC	< 2	< 2	NC
2-Hexanone	< 4	< 10	NC	< 2	< 2	NC
4-Methyl-2-pentanone (MIBK)	< 2	< 5	NC	< 1	< 1	NC
Acetone	< 20	< 50	NC	< 10	< 10	NC
Benzene	< 0.62	< 1.6	NC	< 0.31	< 0.31	NC
Bromodichloromethane	< 0.48	< 1.2	NC	< 0.24	< 0.24	NC
Bromoform	< 0.81	< 2	NC	< 0.41	< 0.41	NC
Carbon Disulfide	< 1.1	< 2.7	NC	< 0.53	< 0.53	NC
Carbon Tetrachloride	< 0.71	< 1.8	NC	< 0.36	< 0.36	NC
Chlorobenzene	< 0.4	< 1	NC	< 0.2	< 0.2	NC
Chloroethane	< 1.3	< 3.3	NC	< 0.67	< 0.67	NC
Chloroform	< 0.6	< 1.5	NC	< 0.3	< 0.3	NC
cis-1,2-Dichloroethylene	**11**	**12.1**	**9.5**	< 0.28	**0.5 J//**	NC
cis-1,3-Dichloropropene	< 0.58	< 1.5	NC	< 0.29	< 0.29	NC
Dibromochloromethane	< 0.55	< 1.4	NC	< 0.28	< 0.28	NC
Ethylbenzene	< 0.71	< 1.8	NC	< 0.36	< 0.36	NC
Methyl Bromide	< 4	< 10	NC	< 2	< 2	NC
Methyl Chloride	< 1	< 2.5	NC	< 0.5	< 0.5	NC
Methylene Chloride	**5.3 JB/B/L**	**12 J//**	NC	< 2	< 2	NC
Styrene	< 0.44	< 1.1	NC	< 0.22	< 0.22	NC
Tetrachloroethylene	**184**	**192**	**4.3**	**35.5**	**48.7**	**31.4**
Toluene	< 0.6	< 1.5	NC	< 0.3	< 0.3	NC
trans-1,2-Dichloroethylene	< 0.44	< 1.1	NC	< 0.22	< 0.22	NC
trans-1,3-Dichloropropene	< 0.43	< 1.1	NC	< 0.21	< 0.21	NC
Trichloroethylene	**57**	**57.8**	**1.4**	< 0.35	**0.79 J//**	NC
Vinyl Chloride	< 0.82	< 2	NC	< 0.41	< 0.41	NC
Xylene (total)	< 1.4	< 3.6	NC	< 0.72	< 0.72	NC

Table 7
Summary of QA/QC Sample Results
RTX - Delavan
Bamberg, South Carolina

Sample ID	MW-22D	MW-22D-A	Relative	MW-24	MW-24-A	Relative
Lab Sample ID	FC11130-10	FC11130-11	Percent	FC11130-32	FC11130-33	Percent
Date Collected	11/08/23	11/08/23	Difference	11/08/23	11/08/23	Difference
Volatile Organic Compounds by 8260D (µg/L)						
1,1,1-Trichloroethane	< 0.25	< 0.25	NC	< 5	< 2.5	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	NC	< 6	< 3	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	NC	< 9.3	< 4.7	NC
1,1-Dichloroethane	< 0.34	< 0.34	NC	< 6.8	< 3.4	NC
1,1-Dichloroethylene	**1.5**	**1.5**	**0**	< 6.4	< 3.2	NC
1,2-Dichloroethane	< 0.31	< 0.31	NC	< 6.2	< 3.1	NC
1,2-Dichloropropane	< 0.43	< 0.43	NC	< 8.5	< 4.3	NC
2-Butanone (MEK)	< 2	< 2	NC	< 40	< 20	NC
2-Hexanone	< 2	< 2	NC	< 40	< 20	NC
4-Methyl-2-pentanone (MIBK)	< 1	< 1	NC	< 20	< 10	NC
Acetone	< 10	< 10	NC	< 200	< 100	NC
Benzene	< 0.31	< 0.31	NC	< 6.2	< 3.1	NC
Bromodichloromethane	< 0.24	< 0.24	NC	< 4.8	< 2.4	NC
Bromoform	< 0.41	< 0.41	NC	< 8.1	< 4.1	NC
Carbon Disulfide	< 0.53	< 0.53	NC	< 11	< 5.3	NC
Carbon Tetrachloride	< 0.36	< 0.36	NC	< 7.1	< 3.6	NC
Chlorobenzene	< 0.2	< 0.2	NC	< 4	< 2	NC
Chloroethane	< 0.67	< 0.67	NC	< 13	< 6.7	NC
Chloroform	< 0.3	< 0.3	NC	< 6	< 3	NC
cis-1,2-Dichloroethylene	< 0.28	< 0.28	NC	**9.3 J//**	**7.3 J//**	NC
cis-1,3-Dichloropropene	< 0.29	< 0.29	NC	< 5.8	< 2.9	NC
Dibromochloromethane	< 0.28	< 0.28	NC	< 5.5	< 2.8	NC
Ethylbenzene	< 0.36	< 0.36	NC	< 7.1	< 3.6	NC
Methyl Bromide	< 2	< 2	NC	< 40	< 20	NC
Methyl Chloride	< 0.5	< 0.5	NC	< 10	< 5	NC
Methylene Chloride	< 2	< 2	NC	< 40	**27.6 JB/B/L**	NC
Styrene	< 0.22	< 0.22	NC	< 4.4	< 2.2	NC
Tetrachloroethylene	**79.3**	**86.8**	**9.0**	**1150**	**1050**	**9.1**
Toluene	**0.47 J/B/T**	< 0.3	NC	< 6	< 3	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	NC	< 4.4	< 2.2	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	NC	< 4.3	< 2.1	NC
Trichloroethylene	< 0.35	< 0.35	NC	< 6.9	**7.8 J//**	NC
Vinyl Chloride	< 0.41	< 0.41	NC	< 8.2	< 4.1	NC
Xylene (total)	< 0.72	< 0.72	NC	< 14	< 7.2	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
RTX - Delavan
Bamberg, South Carolina

Sample ID	TRIP BLANK	
Lab Sample ID	FC11130-38	
Date Collected	11/07/23	
Volatile Organic Compounds by 8260D (µg/L)		
1,1,1-Trichloroethane	<	0.25
1,1,2,2-Tetrachloroethane	<	0.3
1,1,2-Trichloroethane	<	0.47
1,1-Dichloroethane	<	0.34
1,1-Dichloroethylene	<	0.32
1,2-Dichloroethane	<	0.31
1,2-Dichloropropane	<	0.43
2-Butanone (MEK)	<	2
2-Hexanone	<	2
4-Methyl-2-pentanone (MIBK)	<	1
Acetone	<	10
Benzene	<	0.31
Bromodichloromethane	<	0.24
Bromoform	<	0.41
Carbon Disulfide	<	0.53
Carbon Tetrachloride	<	0.36
Chlorobenzene	<	0.2
Chloroethane	<	0.67
Chloroform	<	0.3
cis-1,2-Dichloroethylene	<	0.28
cis-1,3-Dichloropropene	<	0.29
Dibromochloromethane	<	0.28
Ethylbenzene	<	0.36
Methyl Bromide	<	2
Methyl Chloride	<	0.5
Methylene Chloride	<	2
Styrene	<	0.22
Tetrachloroethylene	<	0.22
Toluene		**31.2**
trans-1,2-Dichloroethylene	<	0.22
trans-1,3-Dichloropropene	<	0.21
Trichloroethylene	<	0.35
Vinyl Chloride	<	0.41
Xylene (total)	<	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
RTX - Delavan
Bamberg, South Carolina

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

Laboratory Data Qualifiers

Qualifier	Description
B	Indicates analyte found in an associated blank.
J	Indicates an estimated value.

Result Data Qualifiers

Qualifier	Description
B	The analyte was found in an associated blank as well as the sample.
J	The analyte was positively identified. The quantitation is an estimation.

Analysis Data Qualifiers

Qualifier	Description
C	Laboratory control recovery exceeded established criteria.
L	Common laboratory artifact detected in the sample at a concentration less than or equal to ten times the concentration detected in the associated method blank. This analyte is not considered site-related per EPA data evaluation guidance.
T	Detected in the associated trip blank.

Appendix A

Technical Memorandum – Fall 2023 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 60314964/60707644

RE: Fall 2023 Residential Sampling Activities and Results
Delavan Spray LLC
Bamberg, South Carolina
VCC 13-4762-RP

DATE: February 8, 2024

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, and the hydrogeologic assessment of the limestone aquifer was incomplete, Delavan proactively 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 2023 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 9, 2023, Quality Life Solutions was onsite to perform maintenance for nine (9) of eleven (11) active GAC systems (13 LCT, 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 - residential wells 343 LCR and 698 LCR, which also have GAC systems installed, were not serviced because the pumps at these locations have not been operational for the past few years.

On November 7, 2023, 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 (power off at 343 LCR and 698 LCR). All 9 well samples were collected pre- and post-treatment to evaluate the effectiveness of the GAC treatment systems. .

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

Well Location	Rationale
13 LCT	Low-level PCE detection in October 2018; GAC installed in October 2019; sampled in October 2023 to verify performance
410 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 to verify performance

Well Location	Rationale
448 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 to verify performance
546 LCR-A	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 to verify performance
546 LCR-B	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 to verify performance
684 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 to verify performance
689 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 to verify performance
715 LCR	Low-level PCE detection in April 2019; GAC installed in October 2019; sampled in October 2023 to verify performance
743 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2023 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 Field Screening form 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 analytical data qualifiers are provided in **Table 2**. A map of the Site vicinity illustrating the properties visited and residential sampling results along with the October 2022 PCE groundwater concentrations from site monitoring wells is included as **Figure 2**.

Groundwater samples were collected from 9 residential wells during the Fall 2023 monitoring event (**Table 1 and Figure 2**). PCE was detected in pre-treatment groundwater samples from one residential well (546LCR-A). Consistent with the prior residential well sampling, the PCE detection was a low concentration. The detection in Fall 2023 was 0.28 J (estimated) µg/L, significantly below the MCL for PCE (5 µg/L). Since private well monitoring began in 2018, this is the first event in which PCE was detected in only one residential well.

Laboratory results were validated as documented in the Data Assessment Report (**Attachment 3**) and all data was acceptable for their intended purpose. No detections were found in the post-treatment sample for well 546LCR-A, indicating that GAC system is working as intended. For the other eight locations there was no PCE at detectable levels for the GAC systems to treat. Other than PCE, no other compounds were detected in samples from residential wells in November 2023.

Hydrogeologic Assessment

The Limestone Aquifer assessment was completed in 2020 and submitted as the *Deep Groundwater Delineation Technical Memorandum* in June 2020. As part of this assessment, three sentinel monitoring wells were installed between either Half Moon Branch and/or Lemon Creek and the private wells identified above where PCE has been detected (MW-33D, MW-34D, and MW-35D). PCE has never been detected in any of these three sentinel monitoring wells. PCE has, however, been detected in Lemon Creek as it crosses the region, flowing away from the residential wells to the east, indicating that at least a portion of the PCE plume from the Delavan site is discharging into surface water.

In February 2023, AECOM submitted an Off-Site Feasibility Study Work Plan (AECOM February 14, 2023), which proposes assessment work in Half-Moon Branch and Lemon Creek to better understand the interaction of groundwater and surface water in this area. Since the PCE plume needs to cross these two streams to reach the private wells beyond Lemon Creek, and PCE has been detected at higher concentrations in Lemon Creek than it ever has been detected in the private wells, it is reasonable to expect that this assessment may determine that the PCE detections in the residential wells that are the subject of this report are hydraulically disconnected to the PCE plume on the north side of Lemon Creek.

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, June 20, 2020. *Deep Groundwater Delineation Technical Memorandum, Bamberg, South Carolina.*

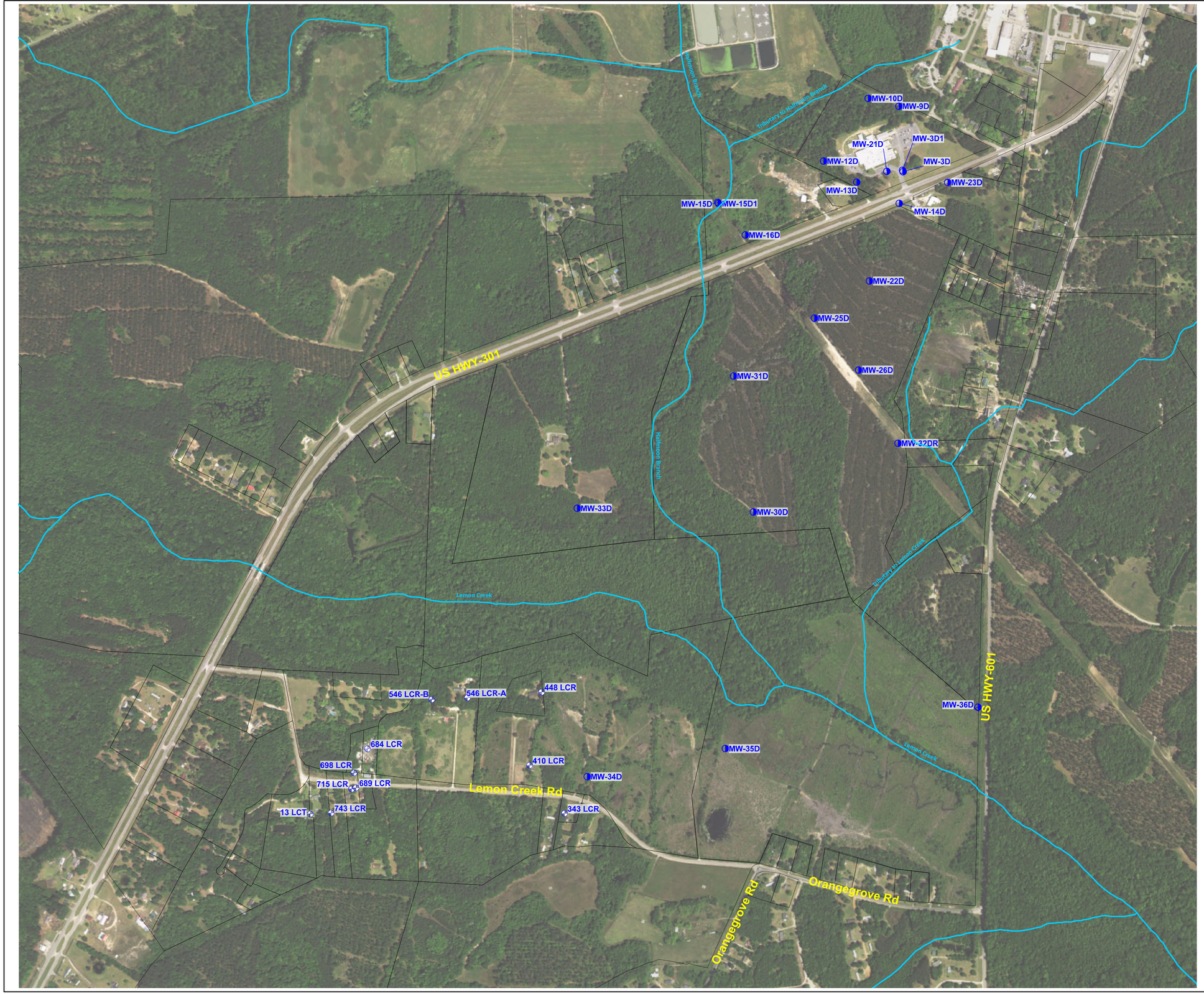
AECOM, March 5, 2021. *Technical Memorandum – Fall 2020 Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina.*

AECOM, February 15, 2022. *Technical Memorandum – Fall 2021 Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina.*

AECOM, February 14, 2023. *Off-Site Feasibility Study Work Plan, Delavan Spray Technologies site, Bamberg, South Carolina.*

AECOM, February 27, 2023. *Technical Memorandum – Fall 2022 Residential Sampling Activities and Results, Delavan Spray LLC, Bamberg, South Carolina.*

Figures



LEGEND

410 LCR	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 November 2023 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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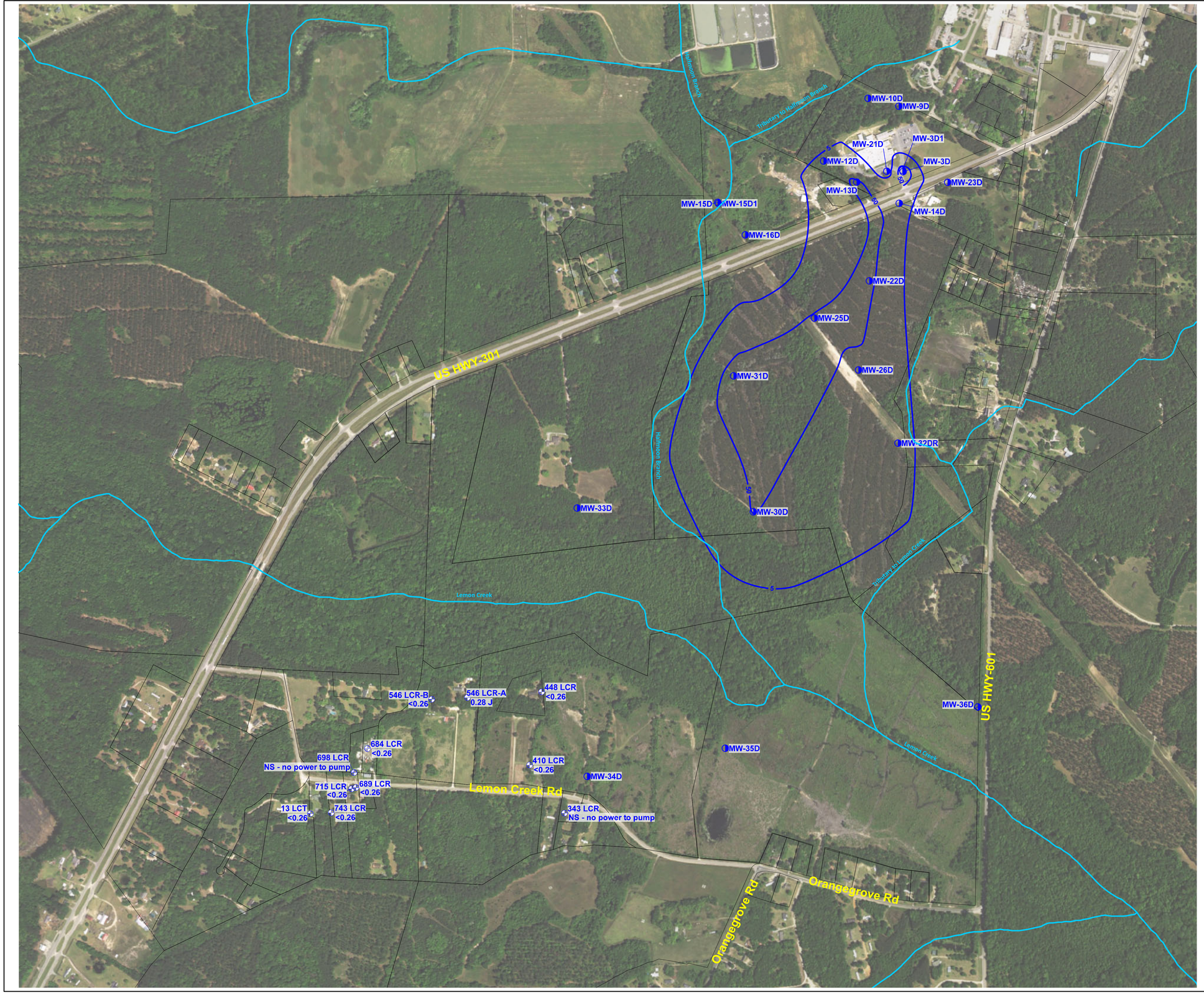
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-2300 F: (864) 234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

Project No.	Prepared by	Date	
60707644	L. Alexander	December 2023	Figure 1

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2023 Plume maps\Residential Properties Sampled Nov 2023.srf



LEGEND

410 LCR	Well Sample ID
	Residential Well Sample Location
	Deep Monitoring Well
	Property Boundary
	Surface Water
	PCE Isoconcentration Contour - November 2023 (µg/L)
< 0.26	PCE Concentration - November 2023 (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 November 2023 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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0 400 800
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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

PCE Concentrations in Residential Groundwater Samples – November 2023

Project No.	Prepared by	Date	
60707644	L. Alexander	December 2023	Figure 2

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2023 Plume maps\Residential Properties Sampled Nov 2023.srf

Tables

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

Sample ID		13 LCT-Pre	13 LCT-Post	410 LCR-Pre	410 LCR-Post	448 LCR-Pre	448 LCR-Post
Lab Sample ID	MCL	35840215001	35840215002	35840215003	35840215004	35840215005	35840215006
Date Collected		11/07/23	11/07/23	11/07/23	11/07/23	11/07/23	11/07/23
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	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19

Sample ID		546 LCR-A-Pre	546 LCR-A-Post	546 LCR-B-Pre	546 LCR-B-Post	684 LCR-Pre	684 LCR-Post
Lab Sample ID	MCL	35840215007	35840215008	35840215009	35840215010	35840215011	35840215012
Date Collected		11/07/23	11/07/23	11/07/23	11/07/23	11/07/23	11/07/23
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	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19

Sample ID		689 LCR-Pre	689 LCR-Post	715 LCR-Pre	715 LCR-Post	743 LCR-Pre	743 LCR-Post
Lab Sample ID	MCL	35840215013	35840215014	35840215015	35840215016	35840215017	35840215018
Date Collected		11/07/23	11/07/23	11/07/23	11/07/23	11/07/23	11/07/23
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	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19

Notes:
Bold font and shading indicates the concentration is detected.
MCL - Maximum Contaminant Level (USEPA, March 2018).
See Table 2 for explanation of data qualifiers.

Table 2
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	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Result Data Qualifiers

Qualifier	Description

No Result Data Qualifiers were added as a result of the validation process.

Analysis Data Qualifiers

Qualifier	Description

No Analysis Data Qualifiers were added as a result of the validation process.

Attachment 1

Field Documentation

Field Screening Results
Delavan Groundwater Contamination Site
Bamberg, South Carolina

Sample ID	Date Collected	Field Screening Result: Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
Off-Site Downgradient Residential Wells								
13 LCT - PRE	11/7/23	28.89	0.21	7.31	7.84	96.5	3.92	Collected @ 1540
13 LCT - POST	11/7/23	28.64	0.19	8.75	7.69	99.8	4.95	Collected @ 1545
343 LCR - PRE			NO POWER					
343 LCR - POST								
410 LCR - PRE	11/7/23	27.65	0.00	8.53	7.87	112.5	0.05	Collected @ 1725
410 LCR - POST	11/7/23	28.65	0.02	6.12	7.60	116.4	0.08	Collected @ 1730
448 LCR - PRE	11/7/23	27.44	0.12	5.64	7.86	110.0	0.07	Collected @ 1715
448 LCR - POST	11/7/23	26.69	0.26	3.44	7.75	109.7	0.02	Collected @ 1720
546 LCR-A - PRE	11/7/23	27.84	0.05	8.44	7.65	107.5	0.04	Collected @ 1655
546 LCR-A - POST	11/7/23	27.68	0.32	4.80	7.49	114.4	0.03	Collected @ 1700
546 LCR-B - PRE	11/7/23	27.55	0.32	5.22	7.63	113.9	0.05	Collected @ 1705
546 LCR-B - POST	11/7/23	27.75	0.30	5.80	7.27	119.1	0.03	Collected @ 1710
684 LCR - PRE	11/7/23	27.70	0.31	4.89	7.80	104.9	0.06	Collected @ 1640
684 LCR - POST	11/7/23	27.62	0.01	4.10	7.79	98.6	0.05	Collected @ 1645
689 LCR - PRE	11/7/23	29.50	0.00	8.57	7.81	101.1	0.89	Collected @ 1610
689 LCR - POST	11/7/23	29.31	0.00	7.04	7.71	110.8	1.80	Collected @ 1615
698 LCR - PRE			NO POWER					
698 LCR - POST								
715 LCR - PRE	11/7/23	26.95	0.01	6.35	7.84	86.3	0.05	Collected @ 1620
715 LCR - POST	11/7/23	28.21	0.00	8.24	8.60	86.2	0.04	Collected @ 1625
743 LCR - PRE	11/7/23	28.43	0.00	7.97	7.75	105.8	2.95	Collected @ 1555
743 LCR - POST	11/7/23	29.95	0.00	7.81	7.71	111.5	0.06	Collected @ 1600

Notes:

°C - degrees Celsius
DO - Dissolved Oxygen
mg/L - milligrams per liter
mS/cm - milliSiemens per centimeter
NR - Not Recorded
* - Duplicate
mV - millivolts
NTU - Nephelometric Turbidity Unit
ORP - Oxidation Reduction Potential
s.u. - standard units
** - Matrix Spike/Matrix Spike Duplicate

AECOM

DAILY REPORT

PROJECT NUMBER: _____ DATE: 10-9-2023 REPORT NUMBER: 1 of 1

PROJECT & LOCATION: RTX Delavan

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: Change out carbon on Lay system
weedeat around monitoring wells

START TIME	STOP TIME	DESCRIPTION OF ACTIVTIES: REMARKS
0730		Randy on site to weed eat around monitoring wells until Quality Life Solution arrive to change out carbon canisters.
0900		Quality Life Solutions arrive at 13 Lauren Ct Hooker Residence change out carbon.
0930		at 743 Lemon Creek Rd Raymond Taylor - change out carbon
0955		at 715 Lemon Creek Rd Martha Clayton - change out carbon
1015		at 689 Lemon Creek Rd April ~~Campbell~~ Campbell change out carbon
1040		at 684 Lemon Creek Rd Ernie Carrol change out carbon
1105		at 546A Lemon Creek Rd Don Kirby change out carbon
1130		at 546B Lemon Creek Rd Don Kirby change out carbon
1205		Quality Life Solutions goes to lunch
		Randy weed eat around monitoring wells until they return
1250		Quality Life Solution back on site at 410 Lemon Creek Rd
		David Coates - change out carbon
1310		at 448 Lemon Creek Rd Michelle Sanders change out carbon
		# 343 Lemon Creek Rd Robert Jamison - said he still does not have
		running water - no carbon change here No water last 2 yrs.
1325		Quality Life Solutions off site
		Randy finishes weedeating around monitoring well - accessable
		Did not get MW-15's cannot not cross creek due to health
		Did not get some on Bamberg Property gate was locked with
		combination lock - no access.
	1430	off site to return to Greenville.

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 10-9-2023

UTC Delavan

Justin Bitter 73° 11/6/23

0800 Leave office
0905 Turn around, head back to office to pick up coolers, delivered early were supposed to arrive Friday
1000 Leave office again
1230 Arrive onsite, sign in, meet w/ G. Collings, begin water levels
1630 Complete water levels, EOD

UTC Delavan

Justin Bitter 50° 11/7/23

0645 Arrive onsite, sign in, HTS meeting, split equipment, still no VOC cooler
0730 Begin purging MW-13D for MNA, HydroTroll SN# 808958
0820 Sample time MW-13D
0840 Begin purging MW-14D
0930 Sample time MW-14D
1000 Begin purging MW-21D
1045 Sample time MW-21D
1100 Begin purging MW-3D
1150 Sample time MW-3D
1200 Head to hotel, coolers are delivered
1315 Return to site, begin surface water sample collection
1340 SW-02-LC
1353 SW-03-HMB
1415 SW-01-LC
1425 SW-04-TLC - Dry
1440 SW-05-LC
1530 Begin residential well sampling
1730 Complete Residential sampling, pack coolers
1745 Leave site
1815 stop for ice & finish packing coolers
1900 Relinquish samples

WO# : 35840215

35840215

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6
Identify Container Preservative Type***: 4
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment	Preservation non-conformance identified for sample.
13 LCT-Pre	DW		11/7/23	1540					X	X		
13 LCT-Post	DW			1545					X	X		
~~343 LCR Pre~~ 93	DW			—						X		
~~343 LCR Post~~ 97	DW			—						X		
410 LCR-Pre	DW			1725					X	X		
410 LCR-Post	DW			1730					X	X		
448 LCR-Pre	DW			1715					X	X		
448 LCR-Post	DW			1720					X	X		
546 LRC-A-Pre	DW			1655					X	X		
546 LRC-A-Post	DW			1700					X	X		

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature) NetPace	Date/Time: 11-8-23 1030	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Page 35 of 35

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 35840215

PM: TAB **Due Date: 11/17/23**

CLIENT: AECOMGRV

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6

Identify Container Preservative Type***: 4

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Todd Baumgartner**
AcctNum / Client ID:
Table #:
Profile / Template: **19462**
Prelog / Bottle Ord. ID: **EZ 3017406**

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment	Preservation non-conformance identified for sample.
546 LRC-B-Pre	DW		11/7/23	1705					X	X		
546 LRC-B-Post	DW			1710					X	X		
684 LCR-Pre	DW			1640					X	X		
684 LCR-Post	DW			1645					X	X		
689 LCR-Pre	DW			1610					X	X		
689 LCR-Post	DW			1615					X	X		
~~698 LCR-Pre~~ 93	DW			—						X		
~~698 LCR-Post~~ 93	DW			—						X		
715 LCR-Pre	DW			1620					X	X		
715 LCR-Post	DW		↓	1625					X	X		

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature) NoPace	Date/Time: 11-8-23 1030	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

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WO# : 35840215

PM: TAB **Due Date: 11/17/23**

CLIENT: AECOMGRV

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested: 524.2 MSV

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment	Preservation non-conformance identified for sample.
743 LCR-Pre	DW		11/7/23	1555					X	X		
743 LCR-Post	DW		↓	1600					X	X		
Trip Blank	DW								X	X		
~~Trip Blank~~ 99	DW									X		

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature) NDPac	Date/Time: 11-8-23 1030	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

Page 3 of 3

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Calibration Report

Instrument	Aqua TROLL 600
Serial Number	808972
Created	11/1/2023

Sensor	**Conductivity**
Serial Number	804312
Last Calibrated	11/1/2023

Passcode for the I-Pad is 123456

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.952
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	1,258.0 µS/cm
Specific Conductivity	1,319.8 µS/cm

Post Measurement

Actual Conductivity	1,346.8 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor	**RDO**
Serial Number	804623
Last Calibrated	11/1/2023

Calibration Details

Slope	1.096139
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.62 mg/L
Pre Measurement	103.43 %Sat
Post Measurement	100.00 %Sat
Temperature	23.36 °C
Barometric Pressure	993.80 mbar

Sensor	**pH/ORP**
Serial Number	778875
Last Calibrated	11/1/2023

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	173.5 mV
Temperature	22.90 °C

Pre Measurement

pH	4.01 pH
pH mV	173.5 mV

Post Measurement

pH	4.00 pH
pH mV	172.3 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	0.1 mV
Temperature	22.89 °C

Pre Measurement

pH	7.01 pH
pH mV	0.1 mV

Post Measurement

pH	7.00 pH
pH mV	0.1 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-171.3 mV
Temperature	22.89 °C

Pre Measurement

pH	10.01 pH
pH mV	-170.8 mV

Post Measurement

pH	10.00 pH
pH mV	-170.1 mV

Slope and Offset 1

Slope	-57.82 mV/pH
Offset	0.1 mV

Slope and Offset 2

Slope	-57.14 mV/pH
Offset	0.1 mV

ORP

ORP Solution	Zobell's
Offset	-2.8 mV
Temperature	22.77 °C
Pre Measurement	245.4 mV
Post Measurement	232.0 mV

Sensor	**Turbidity**
Serial Number	833439
Last Calibrated	11/1/2023

Calibration Details

Slope	0.8715996
Offset	-13.38 NTU

Calibration Point 1

Pre Measurement	24.48 NTU
Post Measurement	10.00 NTU

Calibration Point 2

Pre Measurement	1,162.1 NTU
Post Measurement	1,000.00 NTU

Sensor	**Barometric Pressure**
Serial Number	808972
Last Calibrated	Factory Defaults

Attachment 2

Laboratory Analytical Report

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

November 17, 2023

Conan Fitzgerald
AECOM
4334 Main Highway
Bamberg, SC 29003

RE: Project: RTX Delavan
Pace Project No.: 35840215

Dear Conan Fitzgerald:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2023. 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,



Todd Baumgartner
todd.baumgartner@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Doria Cullom
Accounts Payable, AECOM Technical Services, Inc.
Ian Ros

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

CERTIFICATIONS

Project: RTX Delavan
Pace Project No.: 35840215

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
DoD-ANAB #:ADE-3199
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
Massachusetts Certification #: M-FL1264
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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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: RTX Delavan
Pace Project No.: 35840215

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35840215001	**13 LCT-Pre**	Drinking Water	11/07/23 15:40	11/08/23 10:30
35840215002	**13 LCT-Post**	Drinking Water	11/07/23 15:45	11/08/23 10:30
35840215003	**410 LCR-Pre**	Drinking Water	11/07/23 17:25	11/08/23 10:30
35840215004	**410 LCR-Post**	Drinking Water	11/07/23 17:30	11/08/23 10:30
35840215005	**448 LCR-Pre**	Drinking Water	11/07/23 17:15	11/08/23 10:30
35840215006	**448 LCR-Post**	Drinking Water	11/07/23 17:20	11/08/23 10:30
35840215007	**546 LCR-A-Pre**	Drinking Water	11/07/23 16:55	11/08/23 10:30
35840215008	**546 LCR-A-Post**	Drinking Water	11/07/23 17:00	11/08/23 10:30
35840215009	**546 LCR-B-Pre**	Drinking Water	11/07/23 17:05	11/08/23 10:30
35840215010	**546 LCR-B-Post**	Drinking Water	11/07/23 17:10	11/08/23 10:30
35840215011	**684 LCR-Pre**	Drinking Water	11/07/23 16:40	11/08/23 10:30
35840215012	**684 LCR-Post**	Drinking Water	11/07/23 16:45	11/08/23 10:30
35840215013	**689 LCR-Pre**	Drinking Water	11/07/23 16:10	11/08/23 10:30
35840215014	**689 LCR-Post**	Drinking Water	11/07/23 16:15	11/08/23 10:30
35840215015	**715 LCR-Pre**	Drinking Water	11/07/23 16:20	11/08/23 10:30
35840215016	**715 LCR-Post**	Drinking Water	11/07/23 16:25	11/08/23 10:30
35840215017	**743 LCR-Pre**	Drinking Water	11/07/23 15:55	11/08/23 10:30
35840215018	**743 LCR-Post**	Drinking Water	11/07/23 16:00	11/08/23 10:30
35840215019	**Trip Blank**	Drinking Water	11/07/23 00:01	11/08/23 10:30

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

SAMPLE ANALYTE COUNT

Project: RTX Delavan
Pace Project No.: 35840215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35840215001	**13 LCT-Pre**	EPA 524.2	CLT	7	PASI-O
35840215002	**13 LCT-Post**	EPA 524.2	CLT	7	PASI-O
35840215003	**410 LCR-Pre**	EPA 524.2	CLT	7	PASI-O
35840215004	**410 LCR-Post**	EPA 524.2	CLT	7	PASI-O
35840215005	**448 LCR-Pre**	EPA 524.2	CLT	7	PASI-O
35840215006	**448 LCR-Post**	EPA 524.2	CLT	7	PASI-O
35840215007	**546 LCR-A-Pre**	EPA 524.2	CLT	7	PASI-O
35840215008	**546 LCR-A-Post**	EPA 524.2	CLT	7	PASI-O
35840215009	**546 LCR-B-Pre**	EPA 524.2	CLT	7	PASI-O
35840215010	**546 LCR-B-Post**	EPA 524.2	AS4	7	PASI-O
35840215011	**684 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35840215012	**684 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35840215013	**689 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35840215014	**689 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35840215015	**715 LCR-Pre**	EPA 524.2	CLT	7	PASI-O
35840215016	**715 LCR-Post**	EPA 524.2	CLT	7	PASI-O
35840215017	**743 LCR-Pre**	EPA 524.2	CLT	7	PASI-O
35840215018	**743 LCR-Post**	EPA 524.2	CLT	7	PASI-O
35840215019	**Trip Blank**	EPA 524.2	CLT	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: RTX Delavan
Pace Project No.: 35840215

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35840215007	**546 LCR-A-Pre**					
EPA 524.2	Tetrachloroethene	0.28 I	ug/L	0.50	11/10/23 23:17	

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: RTX Delavan
Pace Project No.: 35840215

Date: November 17, 2023

Sample IDs for samples 007-010 were corrected to "LCR" instead of "LRC" noted on the Chain of Custody. The sample IDs were changed per client request.

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

PROJECT NARRATIVE

Project: RTX Delavan
Pace Project No.: 35840215

Method: **EPA 524.2**
Description: 524.2 MSV
Client: AECOM- Greenville SC
Date: November 17, 2023

General Information:
19 samples were analyzed for EPA 524.2 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 13 LCT-Pre **Lab ID: 35840215001** Collected: 11/07/23 15:40 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 15:37	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 15:37	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 15:37	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 15:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/10/23 15:37	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/10/23 15:37	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		11/10/23 15:37	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: RTX Delavan
Pace Project No.: 35840215

Sample: 13 LCT-Post **Lab ID: 35840215002** Collected: 11/07/23 15:45 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 16:01	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 16:01	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 16:01	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 16:01	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/10/23 16:01	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		11/10/23 16:01	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		11/10/23 16:01	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 410 LCR-Pre **Lab ID: 35840215003** Collected: 11/07/23 17:25 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 16:26	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 16:26	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 16:26	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 16:26	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/10/23 16:26	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		11/10/23 16:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		11/10/23 16:26	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 410 LCR-Post **Lab ID: 35840215004** Collected: 11/07/23 17:30 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 16:50	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 16:50	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 16:50	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 16:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/10/23 16:50	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		11/10/23 16:50	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/10/23 16:50	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 448 LCR-Pre **Lab ID: 35840215005** Collected: 11/07/23 17:15 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 17:15	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 17:15	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 17:15	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 17:15	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/10/23 17:15	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		11/10/23 17:15	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/10/23 17:15	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 448 LCR-Post **Lab ID: 35840215006** Collected: 11/07/23 17:20 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 22:39	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 22:39	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 22:39	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 22:39	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/10/23 22:39	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		11/10/23 22:39	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/10/23 22:39	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 546 LCR-A-Pre **Lab ID: 35840215007** Collected: 11/07/23 16:55 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 23:17	156-59-2	
Tetrachloroethene	**0.28 I**	ug/L	0.50	0.26	1		11/10/23 23:17	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 23:17	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 23:17	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/10/23 23:17	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		11/10/23 23:17	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/10/23 23:17	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 546 LCR-A-Post **Lab ID: 35840215008** Collected: 11/07/23 17:00 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/10/23 23:41	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 23:41	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/10/23 23:41	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/10/23 23:41	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/10/23 23:41	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/10/23 23:41	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/10/23 23:41	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 546 LCR-B-Pre **Lab ID: 35840215009** Collected: 11/07/23 17:05 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/11/23 00:05	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/11/23 00:05	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/11/23 00:05	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/11/23 00:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/11/23 00:05	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		11/11/23 00:05	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/11/23 00:05	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 546 LCR-B-Post **Lab ID: 35840215010** Collected: 11/07/23 17:10 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/14/23 03:24	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 03:24	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 03:24	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/14/23 03:24	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/14/23 03:24	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		11/14/23 03:24	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/14/23 03:24	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 684 LCR-Pre **Lab ID: 35840215011** Collected: 11/07/23 16:40 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/14/23 03:48	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 03:48	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 03:48	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/14/23 03:48	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/14/23 03:48	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		11/14/23 03:48	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/14/23 03:48	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 684 LCR-Post **Lab ID: 35840215012** Collected: 11/07/23 16:45 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/14/23 04:13	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 04:13	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 04:13	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/14/23 04:13	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/14/23 04:13	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		11/14/23 04:13	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		11/14/23 04:13	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 689 LCR-Pre **Lab ID: 35840215013** Collected: 11/07/23 16:10 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/14/23 04:38	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 04:38	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 04:38	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/14/23 04:38	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/14/23 04:38	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		11/14/23 04:38	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/14/23 04:38	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 689 LCR-Post **Lab ID: 35840215014** Collected: 11/07/23 16:15 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/14/23 05:02	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 05:02	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/14/23 05:02	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/14/23 05:02	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/14/23 05:02	460-00-4	
Toluene-d8 (S)	95	%	70-130		1		11/14/23 05:02	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		11/14/23 05:02	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 715 LCR-Pre **Lab ID: 35840215015** Collected: 11/07/23 16:20 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/13/23 17:05	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 17:05	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 17:05	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/13/23 17:05	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/13/23 17:05	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		11/13/23 17:05	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		11/13/23 17:05	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 715 LCR-Post **Lab ID: 35840215016** Collected: 11/07/23 16:25 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/13/23 17:29	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 17:29	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 17:29	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/13/23 17:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/13/23 17:29	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		11/13/23 17:29	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		11/13/23 17:29	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 743 LCR-Pre **Lab ID: 35840215017** Collected: 11/07/23 15:55 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/13/23 18:21	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 18:21	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 18:21	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/13/23 18:21	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/13/23 18:21	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/13/23 18:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/13/23 18:21	2199-69-1	

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ANALYTICAL RESULTS

Project: RTX Delavan
Pace Project No.: 35840215

Sample: 743 LCR-Post **Lab ID: 35840215018** Collected: 11/07/23 16:00 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/13/23 18:45	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 18:45	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 18:45	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/13/23 18:45	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/13/23 18:45	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		11/13/23 18:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		11/13/23 18:45	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: RTX Delavan
Pace Project No.: 35840215

Sample: Trip Blank **Lab ID: 35840215019** Collected: 11/07/23 00:01 Received: 11/08/23 10:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	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	0.33	1		11/13/23 19:09	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 19:09	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	0.26	1		11/13/23 19:09	79-01-6	
Vinyl chloride	**0.19 U**	ug/L	0.50	0.19	1		11/13/23 19:09	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/13/23 19:09	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		11/13/23 19:09	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/13/23 19:09	2199-69-1	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: RTX Delavan
Pace Project No.: 35840215

QC Batch: 965551
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35840215001, 35840215002, 35840215003, 35840215004, 35840215005, 35840215006, 35840215007, 35840215008, 35840215009

METHOD BLANK: 5310868 Matrix: Water
Associated Lab Samples: 35840215001, 35840215002, 35840215003, 35840215004, 35840215005, 35840215006, 35840215007, 35840215008, 35840215009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.33 U	0.50	0.33	11/10/23 15:12	
Tetrachloroethene	ug/L	0.26 U	0.50	0.26	11/10/23 15:12	
Trichloroethene	ug/L	0.26 U	0.50	0.26	11/10/23 15:12	
Vinyl chloride	ug/L	0.19 U	0.50	0.19	11/10/23 15:12	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130		11/10/23 15:12	
4-Bromofluorobenzene (S)	%	93	70-130		11/10/23 15:12	
Toluene-d8 (S)	%	98	70-130		11/10/23 15:12	

LABORATORY CONTROL SAMPLE & LCSD: 5310869 5310870

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	29.0	29.7	73	74	70-130	2	20	
Tetrachloroethene	ug/L	40	41.0	39.0	102	97	70-130	5	20	
Trichloroethene	ug/L	40	39.0	38.4	97	96	70-130	1	20	
Vinyl chloride	ug/L	40	37.8	38.6	94	96	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%				100	102	70-130			
4-Bromofluorobenzene (S)	%				104	102	70-130			
Toluene-d8 (S)	%				104	104	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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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: RTX Delavan
Pace Project No.: 35840215

QC Batch: 965997
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35840215015, 35840215016, 35840215017, 35840215018, 35840215019

METHOD BLANK: 5313513 Matrix: Water
Associated Lab Samples: 35840215015, 35840215016, 35840215017, 35840215018, 35840215019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.33 U	0.50	0.33	11/13/23 14:12	
Tetrachloroethene	ug/L	0.26 U	0.50	0.26	11/13/23 14:12	
Trichloroethene	ug/L	0.26 U	0.50	0.26	11/13/23 14:12	
Vinyl chloride	ug/L	0.19 U	0.50	0.19	11/13/23 14:12	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130		11/13/23 14:12	
4-Bromofluorobenzene (S)	%	92	70-130		11/13/23 14:12	
Toluene-d8 (S)	%	100	70-130		11/13/23 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 5313514 5313515

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	10	7.4	9.0	74	90	70-130	19	20	
Tetrachloroethene	ug/L	10	9.8	9.2	98	92	70-130	6	20	
Trichloroethene	ug/L	10	8.6	9.3	86	93	70-130	7	20	
Vinyl chloride	ug/L	10	8.5	8.3	85	83	70-130	2	20	
1,2-Dichlorobenzene-d4 (S)	%				98	100	70-130			
4-Bromofluorobenzene (S)	%				100	101	70-130			
Toluene-d8 (S)	%				98	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.

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: RTX Delavan
Pace Project No.: 35840215

QC Batch: 966061
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35840215010, 35840215011, 35840215012, 35840215013, 35840215014

METHOD BLANK: 5314221 Matrix: Water
Associated Lab Samples: 35840215010, 35840215011, 35840215012, 35840215013, 35840215014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.33 U	0.50	0.33	11/14/23 02:59	
Tetrachloroethene	ug/L	0.26 U	0.50	0.26	11/14/23 02:59	
Trichloroethene	ug/L	0.26 U	0.50	0.26	11/14/23 02:59	
Vinyl chloride	ug/L	0.19 U	0.50	0.19	11/14/23 02:59	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130		11/14/23 02:59	
4-Bromofluorobenzene (S)	%	97	70-130		11/14/23 02:59	
Toluene-d8 (S)	%	101	70-130		11/14/23 02:59	

LABORATORY CONTROL SAMPLE & LCSD: 5314222 5314223

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/L	10	9.8	10.3	98	103	70-130	5	20	
Tetrachloroethene	ug/L	10	10.5	11.3	105	113	70-130	7	20	
Trichloroethene	ug/L	10	9.6	10.4	96	104	70-130	8	20	
Vinyl chloride	ug/L	10	9.2	10	92	100	70-130	8	20	
1,2-Dichlorobenzene-d4 (S)	%				99	99	70-130			
4-Bromofluorobenzene (S)	%				100	104	70-130			
Toluene-d8 (S)	%				100	101	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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Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: RTX Delavan
Pace Project No.: 35840215

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RTX Delavan
Pace Project No.: 35840215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35840215001	**13 LCT-Pre**	EPA 524.2	965551		
35840215002	**13 LCT-Post**	EPA 524.2	965551		
35840215003	**410 LCR-Pre**	EPA 524.2	965551		
35840215004	**410 LCR-Post**	EPA 524.2	965551		
35840215005	**448 LCR-Pre**	EPA 524.2	965551		
35840215006	**448 LCR-Post**	EPA 524.2	965551		
35840215007	**546 LCR-A-Pre**	EPA 524.2	965551		
35840215008	**546 LCR-A-Post**	EPA 524.2	965551		
35840215009	**546 LCR-B-Pre**	EPA 524.2	965551		
35840215010	**546 LCR-B-Post**	EPA 524.2	966061		
35840215011	**684 LCR-Pre**	EPA 524.2	966061		
35840215012	**684 LCR-Post**	EPA 524.2	966061		
35840215013	**689 LCR-Pre**	EPA 524.2	966061		
35840215014	**689 LCR-Post**	EPA 524.2	966061		
35840215015	**715 LCR-Pre**	EPA 524.2	965997		
35840215016	**715 LCR-Post**	EPA 524.2	965997		
35840215017	**743 LCR-Pre**	EPA 524.2	965997		
35840215018	**743 LCR-Post**	EPA 524.2	965997		
35840215019	**Trip Blank**	EPA 524.2	965997		

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WO# : 35840215

35840215

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	524.2 MSV	Sample Comment	Preservation non-conformance identified for sample.
13 LCT-Pre	DW		11/7/23	1540					X	X		
13 LCT-Post	DW			1545					X	X		
~~343 LCR Pre~~ 93	DW			—						X		
~~343 LCR Post~~ 97	DW			—						X		
410 LCR-Pre	DW			1725					X	X		
410 LCR-Post	DW			1730					X	X		
448 LCR-Pre	DW			1715					X	X		
448 LCR-Post	DW			1720					X	X		
546 LRC-A-Pre	DW			1655					X	X		
546 LRC-A-Post	DW			1700					X	X		

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature) NetPace	Date/Time: 11-8-23 1030	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Page 35 of 55

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Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 35840215

PM: TAB **Due Date: 11/17/23**

CLIENT: AECOMGRV

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested: 524.2 MSV

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Todd Baumgartner**
AcctNum / Client ID:
Table #:
Profile / Template: **19462**
Prelog / Bottle Ord. ID: **EZ 3017406**

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment
546 LRC-B-Pre	DW		11/7/23	1705					X	X	
546 LRC-B-Post	DW			1710					X	X	
684 LCR-Pre	DW			1640					X	X	
684 LCR-Post	DW			1645					X	X	
689 LCR-Pre	DW			1610					X	X	
689 LCR-Post	DW			1615					X	X	
~~698 LCR-Pre~~ 93	DW			—						X	
~~698 LCR-Post~~ 93	DW			—						X	
715 LCR-Pre	DW			1620					X	X	
715 LCR-Post	DW		↓	1625					X	X	

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature) NoPace	Date/Time: 11-8-23 1030	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

WO# : 35840215

PM: TAB **Due Date: 11/17/23**

CLIENT: AECOMGRV

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested: 524.2 MSV

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment
743 LCR-Pre	DW		11/7/23	1555					X	X	
743 LCR-Post	DW		↓	1600					X	X	
Trip Blank	DW								X	X	
~~Trip Blank~~ 99	DW									X	

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature) NDPac	Date/Time: 11-8-23 1030	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

Page 3 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35840215
PM: TAB Due Date: 11/17/23
CLIENT: AECOMGRV

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

Thermometer Use: T-408 Date: 11-8-23 Time: 1101 Initials: AVJ

State of Origin:

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	3.6 (Visual)	-0.1 (Correction Factor)	3.5 (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: ☐Standard Overnight ☐First Overnight ☑Priority Overnight ☐Ground ☐International Priority ☐Other:

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

Tracking # 8162 3584 5627

Custody Seal Present: ☐Yes ☐No **Seal properly placed and intact:** ☑Yes ☐No **Ice:** ☐Wet ☐Blue ☐Dry ☐None ☐Melted

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

Samples shorted to lab: ☐Yes ☐No (If yes, complete the following)
Shorted Date: **Shorted Time:**
Bottle Quantity / Type:

Chain of Custody:	**Present:** ☑Yes ☐No | **Filled Out:** ☑Yes ☐No ☐N/A | **Sampler Name:** ☐Yes ☐No ☑N/A			
	Relinquished To Pace: ☑Yes ☐No ☐N/A | **Sampling Date(s):** ☑Yes ☐No ☐N/A | **Sampling Time(s):** ☑Yes ☐No ☐N/A			
Samples Arrived within Hold Time	☑Yes	☐No	☐N/A	Comments:
Rush Turnaround Requested on COC	☐Yes	☐No	☑N/A	Comments:
Sufficient Volume	☑Yes	☐No	☐N/A	Comments:
Correct Containers Used	☑Yes	☐No	☐N/A	Comments:
Containers Intact	☑Yes	☐No	☐N/A	Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection)	☑Yes	☐No	☐N/A	Comments:
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: Exceptions: Vials, Microbiology, O&G, PFAS	☐Yes	☐No	☑N/A	**Preservative:** **Date:** **Lot / Trace:** **Time:** **Amount added (mL):** **Initials:**
Headspace in Volatile Vials? (>6mm):	☐Yes	☑No	☐N/A	
Trip Blank Present:	☑Yes	☐No	☐N/A	

Comments / Resolutions (use back for additional comments):

~~Login~~ Received 2 sets of trip blanks one set Crossed off on CoC

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 35840215 were collected on November 7, 2023, for RTX - 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 Screening Results
Chain-of-Custody Forms
Daily Logbook Entries

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	808958
Created	11/1/2023

Olson, Eric

Digitally signed by Olson, Eric
DN: cn=Olson, Eric, ou=USGRN1, email=Eric.Olson@aecom.com
Date: 2023.11.01 16:06:53 -04'00'

Sensor	**Conductivity**
Serial Number	803028
Last Calibrated	11/1/2023

Passcode for the I-Pad is

123456

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.384
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	1,200.3 µS/cm
Specific Conductivity	1,071.3 µS/cm

Post Measurement

Actual Conductivity	1,583.1 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor	**RDO**
Serial Number	849125
Last Calibrated	11/1/2023

Calibration Details

Slope	1.19952
Offset	0.00 mg/L

Calibration point 100%

Concentration	5.98 mg/L
Pre Measurement	93.51 %Sat
Post Measurement	100.00 %Sat
Temperature	31.85 °C
Barometric Pressure	992.74 mbar

Sensor	**pH/ORP**
Serial Number	778858
Last Calibrated	11/1/2023

Calibration Details

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	153.3 mV
Temperature	31.24 °C

Pre Measurement

pH	4.15 pH
pH mV	153.4 mV

Post Measurement

pH	4.01 pH
pH mV	156.5 mV

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-12.9 mV
Temperature	31.36 °C

Pre Measurement

pH	6.90 pH
pH mV	-12.9 mV

Post Measurement

pH	6.99 pH
pH mV	-13.2 mV

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-185.2 mV
Temperature	31.21 °C

Pre Measurement

pH	9.75 pH
pH mV	-185.0 mV

Post Measurement

pH	9.95 pH
pH mV	-189.1 mV

Slope and Offset 1

Slope	-55.77 mV/pH
Offset	-13.4 mV

Slope and Offset 2

Slope	-58.22 mV/pH
Offset	-13.5 mV

ORP

ORP Solution	Zobell's
Offset	0.2 mV
Temperature	31.33 °C
Pre Measurement	237.5 mV
Post Measurement	220.8 mV

Sensor	**Turbidity**
Serial Number	1014124
Last Calibrated	11/1/2023

Calibration Details

Slope	0.9058099
Offset	-6.10 NTU

Calibration Point 1

Pre Measurement	16.58 NTU
Post Measurement	10.00 NTU

Calibration Point 2

Pre Measurement	992.00 NTU
Post Measurement	1,000.0 NTU

Sensor	**Barometric Pressure**
Serial Number	808958
Last Calibrated	Factory Defaults

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	808972
Created	11/1/2023

Olson, Eric

Digitally signed by Olson, Eric
DN: cn=Olson, Eric, ou=USGRN1, email=Eric.Olson@aecom.com
Date: 2023.11.01 16:05:09 -04'00'

Sensor	**Conductivity**
Serial Number	804312
Last Calibrated	11/1/2023

Passcode for the I-Pad is

123456

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.952
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	1,258.0 µS/cm
Specific Conductivity	1,319.8 µS/cm

Post Measurement

Actual Conductivity	1,346.8 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor	**RDO**
Serial Number	804623
Last Calibrated	11/1/2023

Calibration Details

Slope	1.096139
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.62 mg/L
Pre Measurement	103.43 %Sat
Post Measurement	100.00 %Sat
Temperature	23.36 °C
Barometric Pressure	993.80 mbar

Sensor	**pH/ORP**
Serial Number	778875
Last Calibrated	11/1/2023

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	173.5 mV
Temperature	22.90 °C

Pre Measurement

pH	4.01 pH
pH mV	173.5 mV

Post Measurement

pH	4.00 pH
pH mV	172.3 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	0.1 mV
Temperature	22.89 °C

Pre Measurement

pH	7.01 pH
pH mV	0.1 mV

Post Measurement

pH	7.00 pH
pH mV	0.1 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-171.3 mV
Temperature	22.89 °C

Pre Measurement

pH	10.01 pH
pH mV	-170.8 mV

Post Measurement

pH	10.00 pH
pH mV	-170.1 mV

Slope and Offset 1

Slope	-57.82 mV/pH
Offset	0.1 mV

Slope and Offset 2

Slope	-57.14 mV/pH
Offset	0.1 mV

ORP

ORP Solution	Zobell's
Offset	-2.8 mV
Temperature	22.77 °C
Pre Measurement	245.4 mV
Post Measurement	232.0 mV

Sensor	**Turbidity**
Serial Number	833439
Last Calibrated	11/1/2023

Calibration Details

Slope	0.8715996
Offset	-13.38 NTU

Calibration Point 1

Pre Measurement	24.48 NTU
Post Measurement	10.00 NTU

Calibration Point 2

Pre Measurement	1,162.1 NTU
Post Measurement	1,000.00 NTU

Sensor	**Barometric Pressure**
Serial Number	808972
Last Calibrated	Factory Defaults

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	808958
Created	11/1/2023

Olson, Eric

Digitally signed by Olson, Eric
DN: cn=Olson, Eric, ou=USGRN1, email=Eric.Olson@aecom.com
Date: 2023.11.01 16:06:53 -04'00'

Sensor	**Conductivity**
Serial Number	803028
Last Calibrated	11/1/2023

Passcode for the I-Pad is

123456

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	1.384
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	1,200.3 µS/cm
Specific Conductivity	1,071.3 µS/cm

Post Measurement

Actual Conductivity	1,583.1 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor	**RDO**
Serial Number	849125
Last Calibrated	11/1/2023

Calibration Details

Slope	1.19952
Offset	0.00 mg/L

Calibration point 100%

Concentration	5.98 mg/L
Pre Measurement	93.51 %Sat
Post Measurement	100.00 %Sat
Temperature	31.85 °C
Barometric Pressure	992.74 mbar

Sensor	**pH/ORP**
Serial Number	778858
Last Calibrated	11/1/2023

Calibration Details

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	153.3 mV
Temperature	31.24 °C

Pre Measurement

pH	4.15 pH
pH mV	153.4 mV

Post Measurement

pH	4.01 pH
pH mV	156.5 mV

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-12.9 mV
Temperature	31.36 °C

Pre Measurement

pH	6.90 pH
pH mV	-12.9 mV

Post Measurement

pH	6.99 pH
pH mV	-13.2 mV

Calibration Point 3

pH of Buffer	9.95 pH
pH mV	-185.2 mV
Temperature	31.21 °C

Pre Measurement

pH	9.75 pH
pH mV	-185.0 mV

Post Measurement

pH	9.95 pH
pH mV	-189.1 mV

Slope and Offset 1

Slope	-55.77 mV/pH
Offset	-13.4 mV

Slope and Offset 2

Slope	-58.22 mV/pH
Offset	-13.5 mV

ORP

ORP Solution	Zobell's
Offset	0.2 mV
Temperature	31.33 °C
Pre Measurement	237.5 mV
Post Measurement	220.8 mV

Sensor	**Turbidity**
Serial Number	1014124
Last Calibrated	11/1/2023

Calibration Details

Slope	0.9058099
Offset	-6.10 NTU

Calibration Point 1

Pre Measurement	16.58 NTU
Post Measurement	10.00 NTU

Calibration Point 2

Pre Measurement	992.00 NTU
Post Measurement	1,000.0 NTU

Sensor	**Barometric Pressure**
Serial Number	808958
Last Calibrated	Factory Defaults

Calibration Report

Instrument	Aqua TROLL 600
Serial Number	808972
Created	11/1/2023

Olson, Eric

Digitally signed by Olson, Eric
DN: cn=Olson, Eric, ou=USGRN1, email=Eric.Olson@aecom.com
Date: 2023.11.01 16:05:09 -04'00'

Sensor	**Conductivity**
Serial Number	804312
Last Calibrated	11/1/2023

Passcode for the I-Pad is 123456

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.952
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	1,258.0 µS/cm
Specific Conductivity	1,319.8 µS/cm

Post Measurement

Actual Conductivity	1,346.8 µS/cm
Specific Conductivity	1,413.0 µS/cm

Sensor	**RDO**
Serial Number	804623
Last Calibrated	11/1/2023

Calibration Details

Slope	1.096139
Offset	0.00 mg/L

Calibration point 100%

Concentration	7.62 mg/L
Pre Measurement	103.43 %Sat
Post Measurement	100.00 %Sat
Temperature	23.36 °C
Barometric Pressure	993.80 mbar

Sensor	**pH/ORP**
Serial Number	778875
Last Calibrated	11/1/2023

Calibration Details

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	173.5 mV
Temperature	22.90 °C

Pre Measurement

pH	4.01 pH
pH mV	173.5 mV

Post Measurement

pH	4.00 pH
pH mV	172.3 mV

Calibration Point 2

pH of Buffer	7.00 pH
pH mV	0.1 mV
Temperature	22.89 °C

Pre Measurement

pH	7.01 pH
pH mV	0.1 mV

Post Measurement

pH	7.00 pH
pH mV	0.1 mV

Calibration Point 3

pH of Buffer	10.00 pH
pH mV	-171.3 mV
Temperature	22.89 °C

Pre Measurement

pH	10.01 pH
pH mV	-170.8 mV

Post Measurement

pH	10.00 pH
pH mV	-170.1 mV

Slope and Offset 1

Slope	-57.82 mV/pH
Offset	0.1 mV

Slope and Offset 2

Slope	-57.14 mV/pH
Offset	0.1 mV

ORP

ORP Solution	Zobell's
Offset	-2.8 mV
Temperature	22.77 °C
Pre Measurement	245.4 mV
Post Measurement	232.0 mV

Sensor	**Turbidity**
Serial Number	833439
Last Calibrated	11/1/2023

Calibration Details

Slope	0.8715996
Offset	-13.38 NTU

Calibration Point 1

Pre Measurement	24.48 NTU
Post Measurement	10.00 NTU

Calibration Point 2

Pre Measurement	1,162.1 NTU
Post Measurement	1,000.00 NTU

Sensor	**Barometric Pressure**
Serial Number	808972
Last Calibrated	Factory Defaults

WATER LEVEL DATA SUMMARY

PROJECT: Delavan Spray Technologies Site
JOB NUMBER: 60707644
LOCATION: Bamberg, South Carolina
DATE: 11/6/23
CLIENT: Raytheon Technologies Corp
MEASURED BY: G. Collins, J. Butler
SURVEY DATUM:
MEASUING DEVICE: Electronic Water Level Indicator

MEASUREMENT POINT IDENTIFICATION	TOC ELEVATION (FT MSL)	DEPTH TO BOTTOM OF WELL (FT BTOC)	POINT OF MEASURE	DEPTH TO WATER (FT BTOC)	COMMENTS Time
MW-1				12.59	1618
MW-2				12.67	1620
MW-3				13.98	1615
MW-3D				14.90	1613
MW-3D1				14.69	1612
MW-4				10.40	1549
MW-5				10.76	1625
MW-6				8.54	1626
MW-7				14.39	1610
MW-8				11.79	1619
MW-9				8.65	1545
MW-9D				10.41	1547
MW-10				7.88	1543
MW-10D				8.19	1542
MW-11				8.47	1540
MW-12D				14.41	1557
MW-13D				13.14	1554
MW-14				12.64	1531
MW-14D				13.81	1530
MW-15				4.52	1336
MW-15D				2.78	1330
MW-15D1				2.91	1332
MW-16				5.50	1342
MW-16D				5.72	1344
MW-17				5.51	1336
MW-18				11.24	1537

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: Delavan Spray Technologies Site
JOB NUMBER: 60707644
LOCATION: Bamberg, South Carolina
DATE: 11/6/23
CLIENT: Raytheon Technologies Corp
MEASURED BY: G. Collins, J. Butler
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				13.50	1305
MW-20				13.38	1310
MW-21				13.62	1621
MW-21D				13.68	1619
MW-22D				13.01	1430
MW-23D				14.94	1533
MW-24				14.43	1623
MW-25D				6.39	1415
MW-26D				10.96	1427
MW-27				11.38	1600
MW-28				12.92	1558
MW-29				7.44	1602
MW-30D				5.22	1401
MW-31D				9.42	1403
MW-32DR				7.41	1423
MW-33D				13.15	1350
MW-34D				14.18	1503
MW-35D				12.05	1506
MW-36D				2.67	1520
MW-37				13.29	1300

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)	11/7/23
Field Personnel	Justin Butler
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-3D
___ Upgradient ___ Downgradient ___ Sidegradient ___ Source	
Weather Conditions	clear
Air Temperature	60 °F
Total Well Depth (TWD) =	49.00 1/100 ft
Depth to Ground Water (DGW) =	14.90 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	34.1 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	5.56 gal
3 Casing Volumes =	16.68 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	148.12 1/100 ft
Height of Riser (above land surface)	-0.23 1/100 ft
Land Surface Elevation	-0.16 1/100 ft
Screened Interval	44 - 49 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 X
Comments/Observations	
Sample Time:	1150
Sample Analytes:	MNA
Hack Fe Kit:	NA mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.
Volume (in gallons) = $\pi r^2 h$ (7.48), where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

VOLUME PURGED (gallons)	~~Initial~~ 1.0	1.35	1.70	2.05	2.40	2.75					
TIME (Military)	1121	1126	1131	1136	1141	1146					
Water Level (ft BTOC)	14.90	14.90	14.90	14.90	14.90	14.90					
pH (S.U.)	7.51	7.49	7.52	7.53	7.53	7.53					
Sp. Cond. (mS/cm)	~~0.34~~ 0.34	0.34	0.34	0.34	0.34	0.34					
Water Temp. (°C)	30.47	30.55	30.36	30.41	30.24	30.26					
Turbidity (NTUs)	146.27	86.12	56.23	42.96	33.65	34.21					
DO - (mg/L)	1.92	1.93	1.92	1.91	1.91	1.91					
Salinity (ppt)	~~0.16~~ 0.16	0.16	0.16	0.16	0.16	0.16					
ORP (mV)	51.2	56.2	58.6	61.0	63.4	66.2					

COMMENTS/OBSERVATIONS Began purging at NA Purging rate: NA ml/min Breathing Zone: NA ppm

Well Head: NA ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	11/7/23
Field Personnel	Justin Butler
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-13D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source	
Weather Conditions	Clear
Air Temperature	50 ° F
Total Well Depth (TWD) =	50.00 1/100 ft
Depth to Ground Water (DGW) =	13.14 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	36.86 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	5.90 gal
3 Casing Volumes =	17.7 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	3.0 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 ____ 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 X
Comments/Observations	
Sample Time:	0820
Sample Analytes:	MNA
Hack Fe Kit:	NA mg/L

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

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

FIELD ANALYSES

VOLUME PURGED (gallons)	~~1.0~~	1.4	1.8	2.2	2.6	3.0					
TIME (Military)	0751	0756	0801	0806	0811	0816					
Water Level (ft BTOC)	13.15	13.15	13.15	13.15	13.15	13.15					
pH (S.U.)	7.84	7.76	7.74	7.72	7.71	7.70					
Sp. Cond. (mS/cm)	0.32	0.32	0.32	0.32	0.32	0.32					
Water Temp. (°C)	26.22	26.37	26.44	26.45	~~25.64~~ 8.40	26.35					
Turbidity (NTUs)	66.38	46.00	34.58	26.39	24.85	25.11					
DO - (mg/L)	3.42	3.42	3.41	3.42	3.41	3.40					
Salinity (ppt)	0.15	0.15	0.15	0.15	0.16	0.16					
ORP (mV)	96.6	97.3	97.7	979	979	98.3					

COMMENTS/OBSERVATIONS Began purging at NA Purging rate: NA ml/min Breathing Zone: NA ppm

Well Head: NA ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	11/7/23
Field Personnel	Justin Butler
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-14D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source	
Weather Conditions	Clear
Air Temperature	51 * F
Total Well Depth (TWD) =	50.00 1/100 ft
Depth to Ground Water (DGW) =	13.81 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	36.19 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	5.90 gal
3 Casing Volumes =	17.7 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	2.75 gal

Casing Diameter	2.0 inches
Casing Material	PVC
Measuring Point Elevation	146.88 1/100 ft
Height of Riser (above land surface)	-0.23 1/100 ft
Land Surface Elevation	147.11 1/100 ft
Screened Interval	40 - 50 1/100 ft
Dedicated Pump or Bailer	YES ____ NO ✓ Type ____
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:	0930
Sample Analytes:	~~MNA~~
Hack Fe Kit:	NA mg/L

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

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

FIELD ANALYSES

VOLUME PURGED (gallons)	~~Initial~~ 1.0	1.35	1.70	2.05	2.40	2.75					
TIME (Military)	0904	0909	0914	0919	0924	0929					
Water Level (ft BTOC)	13.84	13.84	13.84	13.84	13.84	13.84					
pH (S.U.)	7.60	7.60	7.59	7.59	7.58	7.58					
Sp. Cond. (mS/cm)	0.31	0.31	0.31	0.31	0.31	0.31					
Water Temp. (°C)	28.48	28.57	28.46	28.50	28.48	28.46					
Turbidity (NTUs)	98.76	91.70	87.79	85.31	67.61	73.06					
DO - (mg/L)	0.17	0.16	0.16	0.16	0.16	0.16					
Salinity (ppt)	0.15	0.15	0.15	0.15	0.15	0.15					
ORP (mV)	-59.1	-58.6	-57.5	-54.9	-51.1	-46.9					

COMMENTS/OBSERVATIONS Began purging at NA Purging rate: NA ml/min Breathing Zone: NA ppm

Well Head: NA ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	11/7/23
Field Personnel	John Butler
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-21D
____ Upgradient ____ Downgradient ____ Sidegradient ____ Source	
Weather Conditions	Clear
Air Temperature	58 * F
Total Well Depth (TWD) =	53.00 1/100 ft
Depth to Ground Water (DGW) =	13.68 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	39.32 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	6.41 gal
3 Casing Volumes =	19.23 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	146.92 1/100 ft
Height of Riser (above land surface)	-0.31 1/100 ft
Land Surface Elevation	147.23 1/100 ft
Screened Interval	43 - 53 1/100 ft
Dedicated Pump or Bailer	YES ____ NO ✓ Type ____
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:	1045
Sample Analytes:	MNA
Hack Fe Kit:	NA mg/L

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

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

FIELD ANALYSES

VOLUME PURGED (gallons)	~~Initial~~ 0.05	0.60	0.95	1.20	1.55	1.80					
TIME (Military)	1017	1022	1027	1032	1037	1042					
Water Level (ft BTOC)	13.71	13.71	13.71	13.71	13.71	13.71					
pH (S.U.)	7.74	7.67	7.62	7.61	7.58	7.60					
Sp. Cond. (mS/cm)	0.32	0.32	0.32	0.32	0.32	0.32					
Water Temp. (°C)	29.54	29.56	29.50	29.57	29.59	29.59					
Turbidity (NTUs)	62.20	38.67	30.60	36.76	36.96	37.48					
DO - (mg/L)	0.27	0.21	0.18	0.18	0.16	0.17					
Salinity (ppt)	0.15	0.15	0.15	0.15	0.15	0.15					
ORP (mV)	-71.5	-86.1	-87.9	-90.8	-92.8	-93.5					

COMMENTS/OBSERVATIONS Began purging at NA Purging rate: N/A ml/min Breathing Zone: NA ppm

Well Head: NA ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr) 11/7/23
Field Personnel G. Collins
Site Name Delavan Spray Technologies Site
AECOM Job # 60656814
Sample ID* MW-22D
___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions Clear
Air Temperature 79 °F
Total Well Depth (TWD) = 48.00 1/100 ft
Depth to Ground Water (DGW) = 13.01 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 34.99 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 5.70 gal
3 Casing Volumes = 17.11 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection ~~Peristaltic Pump Reverse Flow for VOC's~~ [illegible]
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) -0.1 1/100 ft
Land Surface Elevation 146.06 1/100 ft
Screened Interval 38 - 48 1/100 ft
Dedicated Pump or Bailer YES ___ NO X Type ___
Steel Guard Pipe Around Casing YES X NO ___
Locking Cap YES X NO ___
Protective Post/Abutment YES X NO ___
Well Integrity Satisfactory YES X NO ___
Yield LOW ___ MODERATE ___ HIGH X
Comments/Observations
Sample Time: 1505
Sample Analytes: MNA
Hack Fe Kit [illegible] 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	0.5	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75
VOLUME PURGED (gallons)											
TIME (Military)	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455	1500
Water Level (ft BTOC)	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03	13.03
pH (S.U.)	7.63	7.68	7.71	7.71	7.75	7.76	7.74	7.72	7.62	7.61	7.60
Sp. Cond. (mS/cm)	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29
Water Temp. (°C)	23.53	23.21	23.11	22.98	23.26	23.14	23.20	23.09	23.64	23.53	23.60
Turbidity (NTUs)	24.65	95.80	181.76	179.6	148.55	130.75	132.25	130.20	7.84	6.63	0.96
DO - (mg/L)	2.98	2.71	2.63	2.62	2.57	2.56	2.61	2.74	3.21	3.10	3.06
Salinity (ppt)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14
ORP (mV)	133.5	129.1	125.3	124.2	120.5	118.8	118.5	118.9	128.8	125.9	125.0

COMMENTS/OBSERVATIONS Began purging at 1405 Purging rate: 200 ml/min
Breathing Zone: [illegible] ppm
Well Head: ___ ppm
Clear flow cell @ 1445 (purge water appeared clear) sediment trapped in flow cell.

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr) 11/7/2023
Field Personnel G. Collins
Site Name Delavan Spray Technologies Site
AECOM Job # 60656814
Sample ID* MW-25D
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions Clear
Air Temperature 73 ° F
Total Well Depth (TWD) = 50.00 1/100 ft
Depth to Ground Water (DGW) = 6.39 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 43.61 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 7.10 gal
3 Casing Volumes = 21.3 gal = Standard Evacuation Volume
Method of Sample Evacuation Purge with Peristaltic Pump
Method of Sample Collection ~~Peristaltic Pump Reverse Flow for VOC's~~ (V)
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 40 - 50 1/100 ft
Dedicated Pump or Bailer YES ____ NO X Type ____
Steel Guard Pipe Around Casing YES X NO ____
Locking Cap YES X NO ____
Protective Post/Abutment YES X NO ____
Well Integrity Satisfactory YES X NO ____
Yield LOW ____ MODERATE ____ HIGH X
Comments/Observations
Sample Time: 1150
Sample Analytes: MNA PARMETERS
~~Hack Fe Kit:~~ ~~mg/L~~ (V)

* - 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	0.5	0.75	1.00	1.25						
VOLUME PURGED (gallons)											
TIME (Military)	1125	1130	1135	1140	1145						
Water Level (ft BTOC)	6.44	6.44	6.44	6.44	6.44						
pH (S.U.)	6.94	6.91	6.91	6.92	6.96						
Sp. Cond. (mS/cm)	0.28	0.28	0.28	0.28	0.29						
Water Temp. (°C)	22.51	22.76	22.76	22.70	22.72						
Turbidity (NTUs)	3.76	2.86	2.24	2.13	1.89						
DO - (mg/L)	0.55	0.49	0.43	0.45	0.48						
Salinity (ppt)	0.13	0.13	0.13	0.13	0.14						
ORP (mV)	126.8	124.7	123.5	122.0	119.1						

(V)

COMMENTS/OBSERVATIONS Began purging at 1120 Purging rate: 200 ml/min Breathing Zone: (V) ppm
Well Head: ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	11/7/2023
Field Personnel	G. Collins
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-26D
Upgradient / Downgradient / Sidegradient / Source	Downgradient (X)
Weather Conditions	Clear
Air Temperature	77 ° F
Total Well Depth (TWD) =	50.00 1/100 ft
Depth to Ground Water (DGW) =	10.26 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	39.74 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	6.48 gal
3 Casing Volumes =	19.4 gal = Standard Evacuation Volume
Method of Sample Evacuation	Purge with Peristaltic Pump
Method of Sample Collection	~~Peristaltic Pump Reverse Flow for VOC's~~ BC
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	40 - 50 1/100 ft
Dedicated Pump or Bailer	YES ___ NO X Type ___
Steel Guard Pipe Around Casing	YES X NO ___
Locking Cap	YES X NO ___
Protective Post/Abutment	YES X NO ___
Well Integrity Satisfactory	YES X NO ___
Yield	LOW ___ MODERATE ___ HIGH X
Comments/Observations	
Sample Time:	1325
Sample Analytes:	MNA
Hack Fe ~~K~~	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)		0.5	0.75	1.00	1.25	1.50					
TIME (Military)	1255	1300	1305	1310	1315	1320					
Water Level (ft BTOC)	10.96	10.98	10.98	10.98	10.98	10.98					
pH (S.U.)	7.12	7.16	7.20	7.30	7.36	7.39					
Sp. Cond. (mS/cm)	0.29	0.29	0.30	0.30	0.30	0.30					
Water Temp. (°C)	24.02	24.29	23.83	23.85	24.02	23.88					
Turbidity (NTUs)	30.43	31.27	29.77	28.56	29.72	31.64					
DO - (mg/L)	3.62	3.54	3.01	2.57	2.34	2.33					
Salinity (ppt)	0.14	0.14	0.14	0.15	0.14	0.14					
ORP (mV)	141.0	162.0	154.9	149.4	139.9	139.0					

COMMENTS/OBSERVATIONS Began purging at 1250 Purging rate: 200 ml/min Breathing Zone: (BC) ppm

Well Head: ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr): 11/7/2023
Field Personnel: G. Collins
Site Name: Delavan Spray Technologies Site
AECOM Job #: 60656814
Sample ID*: MW-30D
____ Upgradient X Downgradient ____ Sidegradient ____ Source
Weather Conditions: Clear
Air Temperature: 49 * F
Total Well Depth (TWD) = 60 1/100 ft
Depth to Ground Water (DGW) = 5.22 1/100 ft
Length of Water Column (LWC) = TWD - DGW = 54.78 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 = 8.93 gal
3 Casing Volumes = 26.8 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: 50 - 60 1/100 ft
Dedicated Pump or Bailer: YES ____ NO X Type ____
Steel Guard Pipe Around Casing: YES X NO ____
Locking Cap: YES X NO ____
Protective Post/Abutment: YES X NO ____
Well Integrity Satisfactory: YES X NO ____
Yield: LOW ____ MODERATE ____ HIGH X
Comments/Observations
Sample Time: 0815
Sample Analytes: MNA (Chloride, Nitrate, Sulfate, Sulfide, MEE, Ferrous Iron, Ferric Iron, manganese Acetylene
Hack Fe Kit: 0 mg/L

* - One casing volume (gallons) for a 0.5 inch well is 0.0102XLWC; for a 2 inch well is 0.163 X LWC; for a 4 inch well is 0.652 X LWC and for a 6 inch well is 1.468 X LWC.
Volume (in gallons) = $\pi r^2 h$ (7.48), where r is the radius (ft) and h is the height (ft).

FIELD ANALYSES

	Initial										
VOLUME PURGED (gallons)		0.25	0.50	0.75	1.00	1.25					
TIME (Military)	0745	0750	0755	0800	0805	0810					
Water Level (ft BTOC)	5.24	5.25	5.25	5.25	5.25	5.25					
pH (S.U.)	7.54	7.58	7.61	7.62	7.63	7.63					
Sp. Cond. (mS/cm)	0.29	0.29	0.29	0.29	0.29	0.29					
Water Temp. (°C)	16.84	17.27	17.52	17.50	17.48	17.72					
Turbidity (NTUs)	5.81	3.36	1.24	0.76	0.38	0.29					
DO - (mg/L)	3.83	3.80	3.76	3.73	3.75	3.74					
Salinity (ppt)	0.14	0.14	0.14	0.14	0.14	0.14					
ORP (mV)	89.2	90.5	93.6	95.2	97.0	97.7					

COMMENTS/OBSERVATIONS: Began purging at 0740 Purging rate: 200 ml/min Breathing Zone: 0 ppm
Well Head: ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	11/7/2023
Field Personnel	G. Collins
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-31D
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	Clear
Air Temperature	58 ° F
Total Well Depth (TWD) =	60 1/100 ft
Depth to Ground Water (DGW) =	9.42 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	50.58 1/100 ft
1 Casing Volume (OCV)* = LWC x	0.163 = 8.24 gal
3 Casing Volumes =	24.7 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	50 - 60 1/100 ft
Dedicated Pump or Bailer	YES ___ NO X Type ___
Steel Guard Pipe Around Casing	YES X NO ___
Locking Cap	YES X NO ___
Protective Post/Abutment	YES X NO ___
Well Integrity Satisfactory	YES X NO ___
Yield	LOW ___ MODERATE ___ HIGH X
Comments/Observations	
Sample Time:	0925
Sample Analytes:	MNA PARAMETERS
Hack Fe Kit	mg/L

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

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

FIELD ANALYSES

VOLUME PURGED (gallons)	Initial	0.5	0.75	1.00	1.25						
TIME (Military)	0900	0905	0910	0915	0920						
Water Level (ft BTOC)	9.46	9.47	9.48	9.48	9.48						
pH (S.U.)	7.65	7.65	7.64	7.64	7.64						
Sp. Cond. (mS/cm)	0.29	0.29	0.29	0.28	0.28						
Water Temp. (°C)	18.79	19.07	19.14	19.33	19.45						
Turbidity (NTUs)	1.93	1.47	1.12	1.03	0.96						
DO - (mg/L)	3.94	3.83	3.78	3.68	3.66						
Salinity (ppt)	0.14	0.14	0.14	0.14	0.14						
ORP (mV)	100.4	101.3	102.0	102.9	103.3						

COMMENTS/OBSERVATIONS Began purging at 0855 Purging rate: 200 ml/min Breathing Zone: 0.0 ppm

Well Head: ppm

AECOM

FIELD DATA LOG FOR GROUNDWATER SAMPLING

Date (mo/day/yr)	11/7/2023
Field Personnel	C. Collins
Site Name	Delavan Spray Technologies Site
AECOM Job #	60656814
Sample ID*	MW-32DR
	___ Upgradient X Downgradient ___ Sidegradient ___ Source
Weather Conditions	Clear
Air Temperature	67 * F
Total Well Depth (TWD) =	60 1/100 ft
Depth to Ground Water (DGW) =	7.41 1/100 ft
Length of Water Column (LWC) = TWD - DGW =	52.59 1/100 ft
1 Casing Volume (OCV)* = LWC x 0.163 =	8.57 gal
3 Casing Volumes =	25.7 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	50 - 60 1/100 ft
Dedicated Pump or Bailer	YES ___ NO X Type ___
Steel Guard Pipe Around Casing	YES X NO ___
Locking Cap	YES X NO ___
Protective Post/Abutment	YES X NO ___
Well Integrity Satisfactory	YES X NO ___
Yield	LOW ___ MODERATE ___ HIGH X
Comments/Observations	
Sample Time:	1040
Sample Analyses:	MNA PARAMETERS
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)		0.50	0.75	1.00	1.25						
TIME (Military)	1015	1020	1025	1030	1035						
Water Level (ft BTOC)	7.46	7.46	7.46	~~7.50~~ 7.46	7.46						
pH (S.U.)	7.47	7.41	7.48	7.50	7.51						
Sp. Cond. (mS/cm)	0.26	0.30	0.31	0.31	0.31						
Water Temp. (°C)	20.14	20.31	20.52	20.56	20.69						
Turbidity (NTUs)	4.166	4.168	4.21	3.43	2.89						
DO - (mg/L)	3.016	1.40	1.81	1.83	1.81						
Salinity (ppt)	0.13	0.14	0.15	0.15	0.15						
ORP (mV)	114.6	110.1	107.3	106.3	105.1						

COMMENTS/OBSERVATIONS Began purging at 1010 Purging rate: 200 ml/min Breathing Zone: ppm

Well Head: ppm

Field Screening Results
Delavan Groundwater Contamination Site
Bamberg, South Carolina

		Field Screening Result						
Sample ID	Date Collected	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
Off-Site Background Areas								
MW-17	—	—	—	—	—	—	—	—
MW-18	11/8/23	28.33	0.06	4.68	5.37	144.7	2.08	Collected @ 1025
On-Site Background Areas								
MW-4	—	—	—	—	—	—	—	—
Wooded Areas of Interest								
MW-9**	11/8/23	28.73	0.04	3.12	5.83	110.2	4.85.7	MS/MSD Collected @ 1150
MW-9D	—	—	—	—	—	—	—	
MW-10	11/8/23	28.00	0.06	1.87	5.54	25.1	1.14	Collected @ 1035
MW-10D	11/8/23	27.22	0.24	4.76	7.26	-34.7	496.97	Collected @ 1045
MW-11	—	—	—	—	—	—	—	—
Manufacturing Areas								
MW-1*	11/8/23	33.35	0.04	4.87	5.18	128.2	265.41	Collected @ 1225
MW-2	11/8/23	34.06	0.03	2.84	6.84	87.5	685.03	Collected @ 1210
MW-3	11/8/23	31.27	0.03	4.80	5.91	95.9	44.36	Collected @ 1150
MW-3D	11/8/23	32.15	0.22	3.91	7.23	63.0	149.58	Collected @ 1155
MW-3D1	—	—	—	—	—	—	—	—
MW-5	11/8/23	31.51	0.03	4.84	6.06	90.9	105.98	Collected @ 1305
MW-6	—	—	—	—	—	—	—	—
MW-7	11/8/23	35.14	0.02	5.80	5.65	146.0	257.4	Collected @ 1240
MW-8	11/8/23	24.53	0.11	3.56	5.27	153.3	3.52	Dup Collected @ 1730
MW-12D	11/8/23	27.63	0.18	5.49	11.60	-59.6	22.16	Collected @ 1130
MW-13D	11/8/23	27.91	0.27	3.42	8.75	33.4	57.98	Collected @ 1135
MW-19	11/8/23	32.79	0.00	6.34	5.62	136.2	1.94	Collected @ 1335
MW-20	11/8/23	NOT Enough Water						Collected @ 1345
MW-21	11/8/23	32.13	0.02	8.34	5.48	75.0	16.39	Collected @ 1220
MW-21D	11/8/23	31.09	0.32	1.68	8.31	36.7	122.32	Collected @ 1205
MW-24*	11/8/23	33.26	0.02	6.54	5.62	149.3	28.28	Dup Collected @ 1250
Downgradient Off-Site Areas								
MW-14	11/8/23	29.43	0.04	7.70	7.09	14.7	106.91	Collected @ 0945
MW-14D*	11/8/23	28.74	0.25	8.83	7.56	49.6	50.71	Dup Collected @ 0950
MW-15	—	—	—	—	—	—	—	—
MW-15D	—	—	—	—	—	—	—	—
MW-15D1	—	—	—	—	—	—	—	—
MW-16	—	—	—	—	—	—	—	—
MW-16D	—	—	—	—	—	—	—	—
MW-22D*	11/8/23	28.82	0.06	8.60	7.56	76.3	2.13	Dup Collected @ 0935
MW-23D	—	—	—	—	—	—	—	—
MW-25D	11/8/23	29.63	0.33	7.46	7.52	59.4	58.95	Collected @ 0900
MW-26D	11/8/23	29.98	0.39	3.38	7.95	60.7	49.18	Collected @ 0925
MW-27	11/8/23	28.19	0.06	8.35	5.94	91.56	88.21	Collected @ 1120
MW-28	11/8/23	29.00	0.08	4.16	6.27	83.1	97.12	Collected @ 1110
MW-29	—	—	—	—	—	—	—	—
MW-30D**	11/8/23	26.02	0.05	8.08	7.71	22.9	624.9	MS/MSD Collected @ 0830
MW-31D	11/8/23	27.25	0.13	4.76	7.91	43.4	1385.0	Collected @ 0845
MW-32DR*	11/8/23	28.94	0.25	8.91	7.49	62.7	182.11	Collected @ 0915
MW-33D	11/8/23	25.20	0.02	7.55	8.01	-73.9	327.15	Collected @ 0815
MW-34D	11/8/23	23.32	0.80	8.69	9.96	104.7	9.36	Collected @ 0730
MW-35D	11/8/23	24.18	0.29	6.81	8.12	111.7	35.96	Collected @ 0745
MW-36D	11/8/23	23.52	0.21	7.56	7.65	-93.7	80.21	Collected @ 0800
MW-37	11/8/23	33.35	0.00	4.17	5.56	120.7	0.53	Collected @ 1320
Surface Water Samples								
SW-01-LC	11/7/23	24.91	0.09	7.50	7.30	85.8	3.56	Collected @ 1415
SW-02-LC	11/7/23	28.30	0.07	5.29	7.22	101.5	9.50	Collected @ 1340
SW-03-HMB	11/7/23	27.94	0.01	8.29	7.30	98.8	120.93	Collected @ 1355
SW-04-TLC	—	—	—	—	—	—	—	DRY
SW-05-LC	11/7/23	25.15	0.27	8.71	7.43	100.2	24.20	Collected @ 1440

Field Screening Results
Delavan Groundwater Contamination Site
Bamberg, South Carolina

Sample ID	Date Collected	Field Screening Result: Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH (s.u.)	ORP (mV)	Turbidity (NTU)	Comments
Off-Site Downgradient Residential Wells								
13 LCT - PRE	11/7/23	28.89	0.21	7.31	7.84	96.5	3.92	Collected @ 1540
13 LCT - POST	11/7/23	28.64	0.19	8.75	7.69	99.8	4.95	Collected @ 1545
343 LCR - PRE			NO POWER					
343 LCR - POST								
410 LCR - PRE	11/7/23	27.65	0.00	8.53	7.87	112.5	0.05	Collected @ 1725
410 LCR - POST	11/7/23	28.65	0.02	6.12	7.60	116.4	0.08	Collected @ 1730
448 LCR - PRE	11/7/23	27.44	0.12	5.64	7.86	110.0	0.07	Collected @ 1715
448 LCR - POST	11/7/23	26.69	0.26	3.44	7.75	109.7	0.02	Collected @ 1720
546 LCR-A - PRE	11/7/23	27.84	0.05	8.44	7.65	107.5	0.04	Collected @ 1655
546 LCR-A - POST	11/7/23	27.68	0.32	4.80	7.49	114.4	0.03	Collected @ 1700
546 LCR-B - PRE	11/7/23	27.55	0.32	5.22	7.63	113.9	0.05	Collected @ 1705
546 LCR-B - POST	11/7/23	27.75	0.30	5.80	7.27	119.1	0.03	Collected @ 1710
684 LCR - PRE	11/7/23	27.70	0.31	4.89	7.80	104.9	0.06	Collected @ 1640
684 LCR - POST	11/7/23	27.62	0.01	4.10	7.79	98.6	0.05	Collected @ 1645
689 LCR - PRE	11/7/23	29.50	0.00	8.57	7.81	101.1	0.89	Collected @ 1610
689 LCR - POST	11/7/23	29.31	0.00	7.04	7.71	110.8	1.80	Collected @ 1615
698 LCR - PRE			NO POWER					
698 LCR - POST								
715 LCR - PRE	11/7/23	26.95	0.01	6.35	7.84	86.3	0.05	Collected @ 1620
715 LCR - POST	11/7/23	28.21	0.00	8.24	8.60	86.2	0.04	Collected @ 1625
743 LCR - PRE	11/7/23	28.43	0.00	7.97	7.75	105.8	2.95	Collected @ 1555
743 LCR - POST	11/7/23	29.95	0.00	7.81	7.71	111.5	0.06	Collected @ 1600

Notes:

°C - degrees Celsius
DO - Dissolved Oxygen
mg/L - milligrams per liter
mS/cm - milliSiemens per centimeter
NR - Not Recorded
* - Duplicate
mV - millivolts
NTU - Nephelometric Turbidity Unit
ORP - Oxidation Reduction Potential
s.u. - standard units
** - Matrix Spike/Matrix Spike Duplicate

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15, Orlando, FL 32811
TEL 407-425-6700 FAX 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF 1

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr. Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Bitter Sampler 2: Griffin Collings

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY	CONTAINER INFORMATION MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VRSM 147 DGMEE (VOC + ACETY)	SO4, FE2, NO2, CHL, FE3	S	MN2	LAB USE ONLY
	MW-30D	11/7/23	0815	GC	GW	10		3	3		1		3			X	X	X	X	
	MW-13D	11/7/23	0820	JB	GW	10		3	3		1		3			X	X	X	X	
	MW-31D	11/7/23	0925	GC	GW	10		3	3		1		3			X	X	X	X	
	MW-14D	11/7/23	0930	JB	GW	10		3	3		1		3			X	X	X	X	
	MW-32DR	11/7/23	1040	GC	GW	10		3	3		1		3			X	X	X	X	
	MW-21D	11/7/23	1045	JB	GW	10		3	3		1		3			X	X	X	X	
	MW-25D	11/7/23	1150	GC	GW	10		3	3		1		3			X	X	X	X	
	MW-3D	11/7/23	1150	JB	GW	10		3	3		1		3			X	X	X	X	
	MW-26D	11/7/23	1325	GC	GW	10		3	3		1		3			X	X	X	X	
	MW-22D	11/7/23	1505	GC	GW	10		3	3		2		3			X	X	X	X	

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 AECOM	11/7/23 1900	2	3		4
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	AECOM- Greenville SC	Contact/Report To:	Conan Fitzgerald
Street Address:	4334 Main Highway, Bamberg, SC 29003	Phone #:	
		E-Mail:	conan.fitzgerald@aecom.com
		Cc E-Mail:	
Customer Project #:		Invoice To:	Conan Fitzgerald
Project Name:	RTX Delavan	Invoice E-Mail:	conan.fitzgerald@aecom.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	1618641
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size.**: 6
Identify Container Preservative Type***: 4
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

Preservation non conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment
13 LCT-Pre	DW		11/7/23	1540					X	X	
13 LCT-Post	DW			1545					X	X	
~~343 LCR-Pre~~ 99	DW			—						X	
~~343 LCR-Post~~ 99	DW			—						X	
410 LCR-Pre	DW			1725					X	X	
410 LCR-Post	DW			1730					X	X	
448 LCR-Pre	DW			1715					X	X	
448 LCR-Post	DW			1720					X	X	
546 LRC-A-Pre	DW			1655					X	X	
546 LRC-A-Post	DW			1700					X	X	

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	AECOM	Date/Time: 11/7/23 1900	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State)
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	AECOM- Greenville SC
Street Address:	4334 Main Highway, Bamberg, SC 29003
Customer Project #:	
Project Name:	RTX Delavan
Site Collection Info/Facility ID (as applicable):	
Contact/Report To:	Conan Fitzgerald
Phone #:	
E-Mail:	conan.fitzgerald@aecom.com
Cc E-Mail:	
Invoice To:	Conan Fitzgerald
Invoice E-Mail:	conan.fitzgerald@aecom.com
Purchase Order # (if applicable):	1618641
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable) [ ] Yes [ ] No

Analysis:

Specify Container Size.**: 6

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125 mL, (5) 120mL, (6) 40mL vial, (7) EnCore, (8) Terra Core, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment	Preservation non conformance identified for sample
546 LRC-B-Pre	DW		11/7/23	1705					X	X		
546 LRC-B-Post	DW			1710					X	X		
684 LCR-Pre	DW			1640					X	X		
684 LCR-Post	DW			1645					X	X		
689 LCR-Pre	DW			1610					X	X		
689 LCR-Post	DW			1615					X	X		
~~698 LCR-Pre~~	DW			—						X		
~~698 LCR-Post~~	DW			—						X		
715 LCR-Pre	DW			1620					X	X		
715 LCR-Post	DW			1625					X	X		

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
AECOM	11/7/23 1900			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	AECOM- Greenville SC
Street Address:	4334 Main Highway, Bamberg, SC 29003
Customer Project #:	
Project Name:	RTX Delavan
Site Collection Info/Facility ID (as applicable):	
Contact/Report To:	Conan Fitzgerald
Phone #:	
E-Mail:	conan.fitzgerald@aecom.com
Cc E-Mail:	
Invoice To:	Conan Fitzgerald
Invoice E-Mail:	conan.fitzgerald@aecom.com
Purchase Order # (if applicable):	1618641
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): South Carolina

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 6

Identify Container Preservative Type***: 4

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
Proj. Mgr: Todd Baumgartner
AcctNum / Client ID:
Table #:
Profile / Template: 19462
Prelog / Bottle Ord. ID: EZ 3017406

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	524.2 MSV	Sample Comment	Preservation non conformance identified for sample
743 LCR-Pre	DW		11/7/23	1555					X	X		
743 LCR-Post	DW		↓	1600					X	X		
Trip Blank	DW								X	X		
~~Trip Blank~~ 99	DW									X		

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
AECOM	11/7/23 1900			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

SGS North America Inc - Orlando

SGS Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 1 OF 4

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr. Bldg VI ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffin Colling

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60706644
Fax #:
Client Purchase Order #: 1610495

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	8260 TCL/MW/TUMP	LAB USE ONLY
	MW-34D	11/8/23	0730	JB/GC	GW	3			3							X	
	MW-35D		0745													X	
	MW-36D		0800													X	
	MW-33D		0815													X	
	MW-30D		0830													X	
	MW-30D-MS		0830													X	
	MW-30D-MSD		0830													X	
	MW-31		0845													X	
	MW-25		0900													X	
	MW-32DR		0915													X	
	MW-26		0925													X	
	MW-22D		0935													X	

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Approved By: / Date:
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Raleigh, NC Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 AECOM	11/8/23 1630	2	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

SGS North America Inc - Orlando

Chain of Custody

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TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # :

SGS - ORLANDO Quote #

SKIFF #

Orlando

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Josh Miller Sampler 2: Griffin Colling

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 ~~Bamberg~~ Main Hwy
City: Bamberg State: SC
Project #: 60707644
Fax #:
Client Purchase Order #: 1610495

Analytical Information

V826STCL_VMS+TUNER

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
	MW-22D-a	7/8/23	0935	JB/GC	GW	3			3							X
	MW-14		0945													X
	MW-14D		0950													X
	MW-14D-a		0950													X
	MW-18		1025													X
	MW-10		1035													X
	MW-10D		1045													X
	MW-9		1050													X
	MW-9-MS		1050													X
	MW-9-MSD		1050													X
	MW-28		1110													X
	MW-27		1120													X

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Raleigh, NC Service Center

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1	AECOM	11/8/23 1630	2	3		4
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

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http://www.sgs.com/en/terms-and-conditions

SGS North America Inc - Orlando

Chain of Custody

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SGS - ORLANDO JOB # : PAGE 3 OF 4

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr Bldg VI ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffin Collins

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60706644
Fax #:
Client Purchase Order #: 161095

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	8260 TCL/TAL VOA + TUNER	LAB USE ONLY
	MW-12D	4/8/23	1130	JB/GC	GW	3			3							X	
	MW-13D		1135													X	
	MW-3		1150													X	
	MW-3D		1155													X	
	MW-21D		1205													X	
	MW-2		1210													X	
	MW-21		1220													X	
	MW-1		1225													X	
	MW-8		1230													X	
	MW-8-a		1230													X	
	MW-7		1240													X	
	MW-24		1250													X	

Turnaround Time (Business days)

10 Day (Business)
Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
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- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Raleigh, NC Service Center

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Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 AECOM	11/8/23 1600	2	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

Rule Date 11/03/2

SGS Orlando

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
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www.sgs.com

SGS - ORLANDO JOB # : PAGE 4 OF 4

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffa Collins

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60707644
Fax #:
Client Purchase Order #: 1610495

Analytical Information

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	CONTAINER INFORMATION MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Y8260TCL(VOAs+10PR)	LAB USE ONLY
	MW-24D-a	11/8/23	1250	JB/GC	GW	3			3							X	
	MW-5		1305													X	
	MW-37		1320													X	
	MW-19		1335													X	
	MW-20		1345													X	
	Trip Blank					2			2							X	
	SW-02-LC	11/7/23	1340			3			3							X	
	SW-03-HMB		1355													X	
	SW-01-LC		1415													X	
	SW-05-LC		1440													X	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

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10 Day (Business)
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3 Day *RUSH*
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Approved By: / Date:
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Comments / Remarks

Raleigh, NC Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 AECOM	11/8/23 1620	2	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

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UTC Delavan

Justin Bitter 73° 11/6/23

0800 Leave office
0905 Turn around, head back to office to pick up coolers, delivered early were supposed to arrive Friday
1000 Leave office again
1230 Arrive onsite, sign in, meet w/ G. Collings, begin water levels
1630 Complete water levels, EOD

UTC Delavan

Justin Bitter 50° 11/7/23

0645 Arrive onsite, sign in, HTS meeting, split equipment, still no VOC cooler
0730 Begin purging MW-13D for MNA, HydroTroll SN# 808958
0820 Sample time MW-13D
0840 Begin purging MW-14D
0930 Sample time MW-14D
1000 Begin purging MW-21D
1045 Sample time MW-21D
1100 Begin purging MW-3D
1150 Sample time MW-3D
1200 Head to hotel, coolers are delivered
1315 Return to site, begin surface water sample collection
1340 SW-02-LC
1353 SW-03-HMB
1415 SW-01-LC
1425 SW-04-TLC - Dry
1440 SW-05-LC
1530 Begin residential well sampling
1730 Complete Residential sampling, pack coolers
1745 Leave site
1815 stop for ice & finish packing coolers
1900 Relinquish samples

UTC Bamberger

Justin Butler 750 11/8/23

0700 Arrive on site, Hets meeting

0730 Begin off property VOC sampling via hydrosleeves

1600 Offsite for gas + ice

1030 Begin sampling adjacent properties

1130 Begin sampling on property

1330 complete sampling of all wells

1345 Empty purge water in system totes

1400 Pack cooler, site gear, equipment

1500 Leave site

10/9/23 RTX Delaven Randy Morgan

0730 Randy arrives on site to weed eat around monitoring wells until Quality Life Solutions arrive to change out carbon on log site.

0900 Quality Life Solutions arrive at 13 Lauren Ct - change carbon

0930 at 743 Lemon Creek Rd - change carbon

0955 at 715 Lemon Creek Rd - change carbon

1015 at 689 Lemon Creek Rd - change carbon

1040 at 684 Lemon Creek Rd - change carbon

1105 at 546A Lemon Creek Rd change carbon

1130 at 546B Lemon Creek Rd change carbon

1205 Quality Life Solutions goes to lunch
Randy continues to weed eat around wells

1250 Quality Life Solutions back on site at 410 Lemon Creek Rd change carbon

1310 at 448 Lemon Creek Rd change carbon

* 343 Lemon Creek Rd - No running water last 2 yrs No carbon change out.

1325 Quality Life Solutions off site
Randy finishes weed eating ground wells
Could not access Bamberg property new Combination lock on gate and could not access MW-15 wells - have to cross creek unable to cross due to heath condition.

1430 off site to Greenville SC

UTC Delawan

Griffin Collins 50° 11/7/23

0645 On site. Sign in, H+S meeting, Split equipment

0740 Start pump on MW-30D

0815 Collect MW-30D @ 0815

0855 Start pump on MW-31D

0925 Collect MW-31D @ 0925

1010 Start pump on MW-32DR

1040 Collect MW-32DR @ 1040

1120 Start pump on MW-25D

1150 Collect MW-25D @ 1150

1255 Start pump on MW-26D

1325 Collect MW-26D @ 1325

1405 Start pump on MW-22D

1505 Collect MW-22D @ 1505

1530 Begin residential well sampling

1730 Complete residential well sampling

1735 Housekeeping, Pack equipment

1745 JB Offsite

1800 offsite, EOD

AECOM

Americas

Daily Tailgate Meeting

S3AM-209-FM5

Instructions: Conduct meeting prior to sending crews to individual tasks. Require attendance of all AECOM employees and subcontractors. Invite personnel from simultaneous operations for coordination purposes. Review scope of work and briefly discuss required and applicable topics. **This meeting is a daily refresher, not a full orientation.** Task-specific discussions associated with Task Hazard Assessment (THA) follow this meeting at the task location immediately before individual task is started.

AECOM Supervisor Name: Conan Fitzgerald
Phone Number:
AECOM SH&E Rep. Name: Scott Dietz
Phone Number:
Meeting Leader: Justin Butler

Date: 11/6/23	Project Name/Location: Delavan, Bamberg, SC	Project Number: 60707644

Today's Scope of Work:

Synoptic Gauging

Muster Point Location:	First Aid Kit Location:	Fire Extinguisher Location:	Spill Kit Location:
Delavan South Parking Lot	Truck	Truck	Truck

1. Required Topics

- [x] Fitness for Duty requirements, all sign in / sign out
- [x] Required training (incl. task specific) completed and current
- [x] SH&E Plan onsite - understood, reviewed, signed by all (incl. scope, preplanning hazard assessments / risk registers, controls, procedures, requirements, etc.)
- [x] Task Hazard Assessments (THAs) are to be reviewed and completed for each task immediately prior to conducting
- [x] STOP WORK Right & Responsibility- all task changes/changed conditions re-assess with THA
- [x] Requirement to report to supervisor any injury, illness, damage, near miss, unsafe act / condition
- [x] Emergency Response Plan – including muster point, first aid kit, fire extinguisher, clinic/hospital location
- [x] Personal Protective Equipment (PPE) - Required items per hazard assessments in good condition / in use by all
- [x] Equipment/machinery inspected (documented as required) and in good condition - operators properly trained/certified
- [x] Work area set up and demarcation/ barricades in place to protect workers, site staff, and the public
- [ ] Required checklists/records available, understood (describe):

  NA
- [ ] Lessons Learned / SH&E improvements (describe):

  NA

2. Discuss if Applicable to Today's Work

Check [x] as reviewed or mark [■] as not applicable

- [x] [ ] Biological/ Chemical / Electrical Hazards
- [x] [ ] Ergonomics - Lifting, Body Position
- [x] [x] Lock Out/ Tag Out
  Short Service Employees - visual identifier and mentor/ oversight assignment
- [x] [ ] Simultaneous/ Neighbouring Operations
- [x] [ ] Slip/ Trip/ Fall Hazards
- [ ] [x] Specialized PPE Needs
- [x] [ ] Traffic Control
- [x] [ ] Waste Management/ Decontamination
- [x] [ ] Weather Hazards / Heat Stress / Cold Stress
- [ ] [x] Subcontractor Requirements (e.g., JHAs, THAs, procedures, reporting, etc.)
- [ ] [x] Work Permits / Plans required (e.g., Fall Protection, Confined Space, Hot Work, Critical Lifts, etc.); in place, understood (identify/attach):
- [ ] [ ] Other Topics (describe/attach):

  NA
- [ ] [ ] Client specific requirements (describe):

  NA

3. Daily Check Out by Site Supervisor

Describe incidents, near misses, observations or Stop Work interventions from today:	Describe Lessons Learned/ Improvement Areas from today:

The site is being left in a safe condition and work crew checked out as fit unless otherwise specified as above.

Site Supervisor Name	Signature	Date / Time (at end of day / shift)
Justin Butler		11/6/23 1430

Worker Acknowledgement / Sign In Sign Out sheets applicable to this meeting are on reverse and, if applicable, attached.

All employees:

- **STOP WORK if concerned / uncertain about safety / hazard or additional precaution is not recorded on the THA.**
- **Be alert and communicate any changes in personnel or conditions at the worksite to the supervisor.**
- **Reassess task, hazards, & mitigations on an ongoing basis; amend the THA if needed.**

SITE WORKERS (including AECOM Contractors and Subcontractors): Your signature below means that you understand:

* The requirement to participate in creating, reviewing, & updating hazard assessments (THA) applicable to your task(s).
* The hazards & control measures associated with each task you are about to perform.
* The permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* That no tasks or work is to be performed without a hazard assessment.
* Your authority & obligation to "Stop Work" intervene, speak up/ listen up.

Your initials (right columns) certify that you arrived & departed fit for duty, & have reported all incidents/near misses; meaning:

* You are physically and mentally fit for duty and have inspected your required PPE to ensure satisfactory condition.
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or impairment/fatigue issue to the AECOM Supervisor.
* You signed out as fit / uninjured unless you have otherwise informed the AECOM Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Justin Butler AECOM		In & Fit 1230	Out & Fit 1630
Griffin Collins/AECOM		In & Fit 1130	Out & Fit 1700
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed) Identify number of attached sheets: _____

SITE VISITOR / SITE REPRESENTATIVE

Name	Company Name	Arrival Time	Departure Time	Signature

AECOM

Americas

Daily Tailgate Meeting

S3AM-209-FM5

Instructions: Conduct meeting prior to sending crews to individual tasks. Require attendance of all AECOM employees and subcontractors. Invite personnel from simultaneous operations for coordination purposes. Review scope of work and briefly discuss required and applicable topics. **This meeting is a daily refresher, not a full orientation**. Task-specific discussions associated with Task Hazard Assessment (THA) follow this meeting at the task location immediately before individual task is started.

AECOM Supervisor Name: CONAN FITZGERAID
Phone Number:
AECOM SH&E Rep. Name: SCOTT DIETZ
Phone Number:
Meeting Leader: JUSTIN BUTLER

Date: 11/7/23	Project Name/Location: Delavan, Bamberg, SC	Project Number: 60707644

Today's Scope of Work:

MNA SAMPLING

Muster Point Location:	First Aid Kit Location:	Fire Extinguisher Location:	Spill Kit Location:
Delavan South Parking lot	Truck	Truck	Truck

1. Required Topics

- [x] Fitness for Duty requirements, all sign in / sign out
- [x] Required training (incl. task specific) completed and current
- [x] SH&E Plan onsite - understood, reviewed, signed by all (incl. scope, preplanning hazard assessments / risk registers, controls, procedures, requirements, etc.)
- [x] Task Hazard Assessments (THAs) are to be reviewed and completed for each task immediately prior to conducting
- [x] STOP WORK Right & Responsibility- all task changes/changed conditions re-assess with THA
- [x] Requirement to report to supervisor any injury, illness, damage, near miss, unsafe act / condition
- [x] Emergency Response Plan – including muster point, first aid kit, fire extinguisher, clinic/hospital location
- [x] Personal Protective Equipment (PPE) - Required items per hazard assessments in good condition / in use by all
- [x] Equipment/machinery inspected (documented as required) and in good condition - operators properly trained/certified
- [x] Work area set up and demarcation/ barricades in place to protect workers, site staff, and the public
- [ ] Required checklists/records available, understood (describe): NA
- [ ] Lessons Learned / SH&E improvements (describe): NA

2. Discuss if Applicable to Today's Work

Check ☑ as reviewed or mark ■ as not applicable

- [x] [ ] Biological/ Chemical / Electrical Hazards
- [x] [ ] Ergonomics - Lifting, Body Position
- [ ] [x] Lock Out/ Tag Out
- Short Service Employees - visual identifier and mentor/ oversight assignment
- [x] [ ] Simultaneous/ Neighbouring Operations
- [x] [ ] Slip/ Trip/ Fall Hazards
- [ ] [x] Specialized PPE Needs
- [x] [ ] Traffic Control
- [x] [ ] Waste Management/ Decontamination
- [x] [ ] Weather Hazards / ~~Heat Stress~~ / Cold Stress
- [ ] [x] Subcontractor Requirements (e.g., JHAs, THAs, procedures, reporting, etc.)
- [ ] [x] Work Permits / Plans required (e.g., Fall Protection, Confined Space, Hot Work, Critical Lifts, etc.); in place, understood (identify/attach):
- [ ] [ ] Other Topics (describe/attach): NA
- [ ] [ ] Client specific requirements (describe): NA

3. Daily Check Out by Site Supervisor

Describe incidents, near misses, observations or Stop Work interventions from today:	Describe Lessons Learned/ Improvement Areas from today:

The site is being left in a safe condition and work crew checked out as fit unless otherwise specified as above.

Site Supervisor Name	Signature	Date / Time (at end of day / shift)
Justin Butler		11/7/23 1800

Worker Acknowledgement / Sign In Sign Out sheets applicable to this meeting are on reverse and, if applicable, attached.

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- **Be alert and communicate any changes in personnel or conditions at the worksite to the supervisor.**
- **Reassess task, hazards, & mitigations on an ongoing basis; amend the THA if needed.**

SITE WORKERS (including AECOM Contractors and Subcontractors): Your signature below means that you understand:

* The requirement to participate in creating, reviewing, & updating hazard assessments (THA) applicable to your task(s).
* The hazards & control measures associated with each task you are about to perform.
* The permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* That no tasks or work is to be performed without a hazard assessment.
* Your authority & obligation to "Stop Work" intervene, speak up/ listen up.

Your initials (right columns) certify that you arrived & departed fit for duty, & have reported all incidents/near misses; meaning:

* You are physically and mentally fit for duty and have inspected your required PPE to ensure satisfactory condition.
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or impairment/fatigue issue to the AECOM Supervisor.
* You signed out as fit / uninjured unless you have otherwise informed the AECOM Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Justin Bitter AECOM		In & Fit 0645	Out & Fit 1800
Griffin Collins/AECOM		In & Fit 0645	Out & Fit 1800
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed) Identify number of attached sheets: _____

SITE VISITOR / SITE REPRESENTATIVE

Name	Company Name	Arrival Time	Departure Time	Signature

AECOM

Americas

Daily Tailgate Meeting

S3AM-209-FM5

Instructions: Conduct meeting prior to sending crews to individual tasks. Require attendance of all AECOM employees and subcontractors. Invite personnel from simultaneous operations for coordination purposes. Review scope of work and briefly discuss required and applicable topics. **This meeting is a daily refresher, not a full orientation.** Task-specific discussions associated with Task Hazard Assessment (THA) follow this meeting at the task location immediately before individual task is started.

AECOM Supervisor Name: CONAN FITZGERALD
Phone Number:
AECOM SH&E Rep. Name: SCOTT DIETZ
Phone Number:
Meeting Leader: JUSTIN BUTLER

Date: 11/8/23	Project Name/Location: Delavan, Bamberg, SC	Project Number: 60707644

Today's Scope of Work:

PDB & Hydrasleeve

Muster Point Location:	First Aid Kit Location:	Fire Extinguisher Location:	Spill Kit Location:
Delavan South Parking Lot	Truck	Truck	Truck

1. Required Topics

- [x] Fitness for Duty requirements, all sign in / sign out
- [x] Required training (incl. task specific) completed and current
- [x] SH&E Plan onsite - understood, reviewed, signed by all (incl. scope, preplanning hazard assessments / risk registers, controls, procedures, requirements, etc.)
- [x] Task Hazard Assessments (THAs) are to be reviewed and completed for each task immediately prior to conducting
- [x] STOP WORK Right & Responsibility- all task changes/changed conditions re-assess with THA
- [x] Requirement to report to supervisor any injury, illness, damage, near miss, unsafe act / condition
- [x] Emergency Response Plan – including muster point, first aid kit, fire extinguisher, clinic/hospital location
- [x] Personal Protective Equipment (PPE) - Required items per hazard assessments in good condition / in use by all
- [x] Equipment/machinery inspected (documented as required) and in good condition - operators properly trained/certified
- [x] Work area set up and demarcation/ barricades in place to protect workers, site staff, and the public
- [ ] Required checklists/records available, understood (describe): NA
- [ ] Lessons Learned / SH&E improvements (describe): NA

2. Discuss if Applicable to Today's Work

Check [x] as reviewed or mark [■] as not applicable

- [x] Biological/ Chemical / Electrical Hazards
- [x] Ergonomics - Lifting, Body Position
- [■] Lock Out/ Tag Out
- [x] Short Service Employees - visual identifier and mentor/ oversight assignment
- [x] Simultaneous/ Neighbouring Operations
- [x] Slip/ Trip/ Fall Hazards
- [■] Specialized PPE Needs
- [x] Traffic Control
- [x] Waste Management/ Decontamination
- [x] Weather Hazards / Heat Stress / Cold Stress
- [■] Subcontractor Requirements (e.g., JHAs, THAs, procedures, reporting, etc.)
- [■] Work Permits / Plans required (e.g., Fall Protection, Confined Space, Hot Work, Critical Lifts, etc.); in place, understood (identify/attach):
- [ ] Other Topics (describe/attach): NA
- [ ] Client specific requirements (describe): NA

3. Daily Check Out by Site Supervisor

Describe incidents, near misses, observations or Stop Work interventions from today:	Describe Lessons Learned/ Improvement Areas from today:

The site is being left in a safe condition and work crew checked out as fit unless otherwise specified as above.

Site Supervisor Name	Signature	Date / Time (at end of day / shift)
Justin Butler		Date 11/8/23 Time 1500

Worker Acknowledgement / Sign In Sign Out sheets applicable to this meeting are on reverse and, if applicable, attached.

All employees:

- **STOP WORK if concerned / uncertain about safety / hazard or additional precaution is not recorded on the THA.**
- **Be alert and communicate any changes in personnel or conditions at the worksite to the supervisor.**
- **Reassess task, hazards, & mitigations on an ongoing basis; amend the THA if needed.**

SITE WORKERS (including AECOM Contractors and Subcontractors): Your signature below means that you understand:

* The requirement to participate in creating, reviewing, & updating hazard assessments (THA) applicable to your task(s).
* The hazards & control measures associated with each task you are about to perform.
* The permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* That no tasks or work is to be performed without a hazard assessment.
* Your authority & obligation to "Stop Work" intervene, speak up/ listen up.

Your initials (right columns) certify that you arrived & departed fit for duty, & have reported all incidents/near misses; meaning:

* You are physically and mentally fit for duty and have inspected your required PPE to ensure satisfactory condition.
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or impairment/fatigue issue to the AECOM Supervisor.
* You signed out as fit / uninjured unless you have otherwise informed the AECOM Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Justin Better AECOM		In & Fit 0700	Out & Fit 1500
Griffin Collins/AECOM		In & Fit 0700	Out & Fit 1500
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed) Identify number of attached sheets: _____

SITE VISITOR / SITE REPRESENTATIVE

Name	Company Name	Arrival Time	Departure Time	Signature

AECOM

DAILY REPORT

PROJECT NUMBER: _____ DATE: 10-9-2023 REPORT NUMBER: 1 of 1

PROJECT & LOCATION: RTX Delavan

CLIENT: _____ AECOM FIELD REPRESENTATIVE: Randy Morgan

SUBCONTRACTOR: _____

SUBCONTRACTOR PERSONNEL ON SITE: _____

BRIEF SUMMARY OF WORK PERFORMED: Change out carbon on Lay system
weedeat around monitoring wells

START TIME	STOP TIME	DESCRIPTION OF ACTIVTIES: REMARKS
0730		Randy on site to weed eat around monitoring wells until Quality Life Solution arrive to change out carbon canisters.
0900		Quality Life Solutions arrive at 13 Lauren Ct Hooker Residence change out carbon.
0930		at 743 Lemon Creek Rd Raymond Taylor - change out carbon
0955		at 715 Lemon Creek Rd Martha Clayton - change out carbon
1015		at 689 Lemon Creek Rd April ~~Campbell~~ Campbell change out carbon
1040		at 684 Lemon Creek Rd Ernie Carrol change out carbon
1105		at 546A Lemon Creek Rd Don Kirby change out carbon
1130		at 546B Lemon Creek Rd Don Kirby change out carbon
1205		Quality Life Solutions goes to lunch
		Randy weed eat around monitoring wells until they return
1250		Quality Life Solution back on site at 410 Lemon Creek Rd
		David Coates - change out carbon
1310		at 448 Lemon Creek Rd Michelle Sanders change out carbon
		# 343 Lemon Creek Rd Robert Jamison - said he still does not have
		running water - no carbon change here No water last 2 yrs.
1325		Quality Life Solutions off site
		Randy finishes weedeating around monitoring well - accessable
		Did not get MW-15's cannot not cross creek due to health
		Did not get some on Bamberg Property gate was locked with
		combination lock - no access.
	1430	off site to return to Greenville.

FIELD REPRESENTATIVES SIGNATURE: Randy Morgan DATE: 10-9-2023

AECOM

Americas

Daily Tailgate Meeting

S3AM-209-FM5

Instructions: Conduct meeting prior to sending crews to individual tasks. Require attendance of all AECOM employees and subcontractors. Invite personnel from simultaneous operations for coordination purposes. Review scope of work and briefly discuss required and applicable topics. **This meeting is a daily refresher, not a full orientation.** Task-specific discussions associated with Task Hazard Assessment (THA) follow this meeting at the task location immediately before individual task is started.

AECOM Supervisor Name: Conan Fitzgerald Phone Number:	
AECOM SH&E Rep. Name: Phone Number:	
Meeting Leader: Randy Morgan	

Date: 10/9/2023 | Project Name/Location: UTC Delavan | Project Number:

Today's Scope of Work: Change out carbon filters on the lag side of system

Muster Point Location:	First Aid Kit Location:	Fire Extinguisher Location:	Spill Kit Location:
N/A	Vehicle	Vehicle	N/A

1. Required Topics

- [x] Fitness for Duty requirements all sign in / sign out
- [x] Required training (incl task specific) completed and current
- [ ] SH&E Plan onsite - understood reviewed, signed by all (incl scope prep/planning hazard assessments / risk registers, controls procedures requirements etc.)
- [ ] Task Hazard Assessments (THAs) are to be reviewed and completed for each task immediately prior to conducting
- [x] STOP WORK Right & Responsibility- all task changes/changed conditions re-assess with THA
- [x] Requirement to report to supervisor any injury, illness damage near miss unsafe act / condition
- [ ] Emergency Response Plan – including muster point first aid kit, fire extinguisher clinic/hospital location
- [x] Personal Protective Equipment (PPE) - Required items per hazard assessments in good condition / in use by all
- [ ] Equipment/machinery inspected (documented as required) and in good condition - operators properly trained/certified
- [ ] Work area setup and demarcation/ barricades in place to protect workers, site staff, and the public
- [ ] Required checklists/records available understood (describe)
- [ ] Lessons Learned / SH&E improvements (describe)

2. Discuss If Applicable to Today's Work

Check [x] as reviewed or mark [■] as not applicable

- [x] [ ] Biological / Chemical / Electrical Hazards
- [x] [ ] Ergonomics - Lifting Body Position
- [ ] [ ] Lock Out/ Tag Out
- Short Service Employees - visual identifier and mentor/ oversight assignment
- [ ] [x] Simultaneous/ Neighbouring Operations
- [x] [ ] Slip/ Trip/ Fall Hazards
- [ ] [ ] Specialized PPE Needs
- [ ] [ ] Traffic Control
- [ ] [ ] Waste Management/ Decontamination
- [ ] [ ] Weather Hazards / Heat Stress / Cold Stress
- [ ] [ ] Subcontractor Requirements (e.g., JHAs THAs procedures reporting etc.)
- [ ] [ ] Work Permits / Plans required (e.g., Fall Protection Confined Space Hot Work Critical Lifts etc.) in place understood (identify/attach)
- [ ] [ ] Other Topics (describe/attach)
- [ ] [ ] Client specific requirements (describe)

3. Daily Check Out by Site Supervisor

Describe incidents near misses observations or Stop Work interventions from today	Describe Lessons Learned/ Improvement Areas from today

The site is being left in a safe condition and work crew checked out as fit unless otherwise specified as above.

Site Supervisor Name	Signature	Date / Time (at end of day / shift)
Randy Morgan	Randy Morgan	10-9-2023

Worker Acknowledgement / Sign In Sign Out sheets applicable to this meeting are on reverse and, if applicable, attached.

All employees:

- STOP WORK if concerned / uncertain about safety / hazard or additional precaution is not recorded on the THA.
- Be alert and communicate any changes in personnel or conditions at the worksite to the supervisor.
- Reassess task, hazards, & mitigations on an ongoing basis; amend the THA if needed.

SITE WORKERS (including AECOM Contractors and Subcontractors): Your signature below means that you understand:

* The requirement to participate in creating, reviewing, & updating hazard assessments (THA) applicable to your task(s).
* The hazards & control measures associated with each task you are about to perform.
* The permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* That no tasks or work is to be performed without a hazard assessment.
* Your authority & obligation to "Stop Work" intervene, speak up/ listen up.

Your initials (right columns) certify that you arrived & departed fit for duty, & have reported all incidents/near misses; meaning:

* You are physically and mentally fit for duty and have inspected your required PPE to ensure satisfactory condition.
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or impairment/fatigue issue to the AECOM Supervisor.
* You signed out as fit / uninjured unless you have otherwise informed the AECOM Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Randy Morgan AECOM	Randy Morgan	In & Fit 0730 RM	Out & Fit 1430
Harrell Guy QLS	Harrell Guy	In & Fit 9:00 am	Out & Fit 1325
BRYAN NOBLES	Bryan Nobles	In & Fit 9:00 am	Out & Fit 1325
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed; identify number of attached sheets _____)

SITE VISITOR / SITE REPRESENTATIVE

Name	Company Name	Arrival Time	Departure Time	Signature

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

60706444

SGS Job Number: FC11130

Sampling Dates: 11/07/23 - 11/08/23



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: **138**

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 unless noted in the narrative, comments or footnotes.

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, IL, UT, VT, WA, WI, WV

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FC11130

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60706444

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
FC11130-1	11/08/23	07:30	JBGC	11/09/23	AQ	Ground Water	MW-34D
FC11130-2	11/08/23	07:45	JBGC	11/09/23	AQ	Ground Water	MW-35D
FC11130-3	11/08/23	08:00	JBGC	11/09/23	AQ	Ground Water	MW-36D
FC11130-4	11/08/23	08:15	JBGC	11/09/23	AQ	Ground Water	MW-33D
FC11130-5	11/08/23	08:30	JBGC	11/09/23	AQ	Ground Water	MW-30D
FC11130-5D	11/08/23	08:30	JBGC	11/09/23	AQ	Water Dup/MSD	MW-30D
FC11130-5S	11/08/23	08:30	JBGC	11/09/23	AQ	Water Matrix Spike	MW-30D
FC11130-6	11/08/23	08:45	JBGC	11/09/23	AQ	Ground Water	MW-31D
FC11130-7	11/08/23	09:00	JBGC	11/09/23	AQ	Ground Water	MW-25D
FC11130-8	11/08/23	09:15	JBGC	11/09/23	AQ	Ground Water	MW-32DR
FC11130-9	11/08/23	09:25	JBGC	11/09/23	AQ	Ground Water	MW-26D
FC11130-10	11/08/23	09:35	JBGC	11/09/23	AQ	Ground Water	MW-22D

Sample Summary
(continued)

Raytheon Technologies

Job No: FC11130

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60706444

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC11130-11	11/08/23	09:35	JBGC	11/09/23	AQ	Ground Water	MW-22D-A
FC11130-12	11/08/23	09:45	JBGC	11/09/23	AQ	Ground Water	MW-14
FC11130-13	11/08/23	09:50	JBGC	11/09/23	AQ	Ground Water	MW-14D
FC11130-14	11/08/23	09:50	JBGC	11/09/23	AQ	Ground Water	MW-14D-A
FC11130-15	11/08/23	10:25	JBGC	11/09/23	AQ	Ground Water	MW-18
FC11130-16	11/08/23	10:35	JBGC	11/09/23	AQ	Ground Water	MW-10
FC11130-17	11/08/23	10:45	JBGC	11/09/23	AQ	Ground Water	MW-10D
FC11130-18	11/08/23	10:50	JBGC	11/09/23	AQ	Ground Water	MW-9
FC11130-18D	11/08/23	10:50	JBGC	11/09/23	AQ	Water Dup/MSD	MW-9
FC11130-18S	11/08/23	10:50	JBGC	11/09/23	AQ	Water Matrix Spike	MW-9
FC11130-19	11/08/23	11:10	JBGC	11/09/23	AQ	Ground Water	MW-28
FC11130-20	11/08/23	11:20	JBGC	11/09/23	AQ	Ground Water	MW-27
FC11130-21	11/08/23	11:30	JBGC	11/09/23	AQ	Ground Water	MW-12D

Sample Summary
(continued)

Raytheon Technologies

Job No: FC11130

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60706444

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC11130-22	11/08/23	11:35	JBGC	11/09/23	AQ	Ground Water	MW-13D
FC11130-23	11/08/23	11:50	JBGC	11/09/23	AQ	Ground Water	MW-3
FC11130-24	11/08/23	11:55	JBGC	11/09/23	AQ	Ground Water	MW-3D
FC11130-25	11/08/23	12:05	JBGC	11/09/23	AQ	Ground Water	MW-21D
FC11130-26	11/08/23	12:10	JBGC	11/09/23	AQ	Ground Water	MW-2
FC11130-27	11/08/23	12:20	JBGC	11/09/23	AQ	Ground Water	MW-21
FC11130-28	11/08/23	12:25	JBGC	11/09/23	AQ	Ground Water	MW-1
FC11130-29	11/08/23	12:30	JBGC	11/09/23	AQ	Ground Water	MW-8
FC11130-30	11/08/23	12:30	JBGC	11/09/23	AQ	Ground Water	MW-8-A
FC11130-31	11/08/23	12:40	JBGC	11/09/23	AQ	Ground Water	MW-7
FC11130-32	11/08/23	12:50	JBGC	11/09/23	AQ	Ground Water	MW-24
FC11130-33	11/08/23	12:50	JBGC	11/09/23	AQ	Ground Water	MW-24-A
FC11130-34	11/08/23	13:05	JBGC	11/09/23	AQ	Ground Water	MW-5

Sample Summary
(continued)

Raytheon Technologies

Job No: FC11130

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60706444

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC11130-35	11/08/23	13:20	JBGC	11/09/23	AQ	Ground Water	MW-37
FC11130-36	11/08/23	13:35	JBGC	11/09/23	AQ	Ground Water	MW-19
FC11130-37	11/08/23	13:45	JBGC	11/09/23	AQ	Ground Water	MW-20
FC11130-38	11/07/23	00:00	JBGC	11/09/23	AQ	Trip Blank Water	TRIP BLANK
FC11130-39	11/07/23	13:40	JBGC	11/09/23	AQ	Ground Water	SW-02-LC
FC11130-40	11/07/23	13:55	JBGC	11/09/23	AQ	Ground Water	SW-03-HMB
FC11130-41	11/07/23	14:15	JBGC	11/09/23	AQ	Ground Water	SW-01-LC
FC11130-42	11/07/23	14:40	JBGC	11/09/23	AQ	Ground Water	SW-05-LC

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FC11130

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date:** 11/17/2023 4:56:39

On 11/09/2023, 41 Sample(s), 1 Trip Blank(s), 0 Equip. Blanks and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC11130 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:** V2O3138

Sample(s) FC11001-3MS, FC11001-3MSD were used as the QC samples indicated.

FC11130-6: Sample was not preserved to a pH < 2.

FC11130-10: Sample was not preserved to a pH < 2.

FC11130-11: Sample was not preserved to a pH < 2.

V2O3138-MB: Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** V2P3893

Sample(s) FC11130-18MS, FC11130-18MSD were used as the QC samples indicated.

Sample(s) FC11130-27, FC11130-29, FC11130-33 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.

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

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FC11130-18MSD. Probable cause is due to sample non-homogeneity.

For Sample(s) FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33 are associated with an CCV that has a recovery for Chloroethane, Methyl Chloride, Chloroethane outside low control limit.

FC11130-14 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-14 for Chloroethane: Associated CCV outside of control limits low.

FC11130-14: Sample was not preserved to a pH < 2.

FC11130-15 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-15 for Chloroethane: Associated CCV outside of control limits low.

FC11130-15: Sample was not preserved to a pH < 2.

FC11130-17 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-17 for Chloroethane: Associated CCV outside of control limits low.

FC11130-17: Sample was not preserved to a pH < 2.

FC11130-18 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-18 for Chloroethane: Associated CCV outside of control limits low.

FC11130-18: Sample was not preserved to a pH < 2.

FC11130-19 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-19 for Chloroethane: Associated CCV outside of control limits low.

FC11130-19: Sample was not preserved to a pH < 2.

FC11130-20 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-20 for Chloroethane: Associated CCV outside of control limits low.

FC11130-20: Sample was not preserved to a pH < 2.

FC11130-21 for Acetone: Associated ICV outside control limits high.

FC11130-21 for Chloroethane: Associated CCV outside of control limits low.

FC11130-21: Result reported from vial with pH >8 and should be used for screening purposes only.

FC11130-22 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-22 for Chloroethane: Associated CCV outside of control limits low.

FC11130-22: Sample was not preserved to a pH < 2.

FC11130-23 for Acetone: Associated ICV outside control limits high, however sample ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2P3893

FC11130-23 for Chloroethane: Associated CCV outside of control limits low.

FC11130-23: Sample was not preserved to a pH < 2.

FC11130-24 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-24 for Chloroethane: Associated CCV outside of control limits low.

FC11130-24: Sample was not preserved to a pH < 2.

FC11130-25 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-25 for Chloroethane: Associated CCV outside of control limits low.

FC11130-25: Sample was not preserved to a pH < 2.

FC11130-26 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-26 for Chloroethane: Associated CCV outside of control limits low.

FC11130-26: Sample was not preserved to a pH < 2.

FC11130-27 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-27 for Chloroethane: Associated CCV outside of control limits low.

FC11130-27: Sample was not preserved to a pH < 2.

FC11130-28 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-28 for Chloroethane: Associated CCV outside of control limits low.

FC11130-28: Sample was not preserved to a pH < 2.

FC11130-29 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-29 for Chloroethane: Associated CCV outside of control limits low.

FC11130-29: Sample was not preserved to a pH < 2.

FC11130-31 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-31 for Chloroethane: Associated CCV outside of control limits low.

FC11130-31: Sample was not preserved to a pH < 2.

FC11130-32 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-32 for Chloroethane: Associated CCV outside of control limits low.

FC11130-32: Sample was not preserved to a pH < 2.

FC11130-33 for Acetone: Associated ICV outside control limits high, however sample ND.

FC11130-33 for Chloroethane: Associated CCV outside of control limits low.

FC11130-33: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V2P3894

Sample(s) FC11083-8MS, FC11083-8MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for trans-1,3-Dichloropropene are outside control limits.

Matrix Spike Recovery(s) for trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

For Sample(s) FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42 are associated with an CCV that has a recovery for Chloroethane, Methyl Bromide, Methyl Chloride, Vinyl Chloride, Chloroethane outside low control limit.

FC11130-34 for Acetone: Associated ICV outside control limits high, sample is ND.

FC11130-34 for Chloroethane: Associated CCV outside of control limits low.

FC11130-34 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits low.

FC11130-34: Sample was not preserved to a pH < 2.

FC11130-38 for Acetone: Associated ICV outside control limits high, sample is ND.

FC11130-38 for Chloroethane: Associated CCV outside of control limits low.

FC11130-38 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits low.

FC11130-38: Sample was not preserved to a pH < 2.

FC11130-39 for Acetone: Associated ICV outside control limits high, sample is ND.

FC11130-39 for Chloroethane: Associated CCV outside of control limits low.

FC11130-39 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits low.

FC11130-39: Sample was not preserved to a pH < 2.

FC11130-40 for Acetone: Associated ICV outside control limits high, sample is ND.

FC11130-40 for Chloroethane: Associated CCV outside of control limits low.

FC11130-40 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits low.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2P3894

FC11130-40: Sample was not preserved to a pH < 2.

FC11130-41 for Acetone: Associated ICV outside control limits high, sample is ND.

FC11130-41 for Chloroethane: Associated CCV outside of control limits low.

FC11130-41 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits low.

FC11130-41: Sample was not preserved to a pH < 2.

FC11130-42 for Acetone: Associated ICV outside control limits high, sample is ND.

FC11130-42 for Chloroethane: Associated CCV outside of control limits low.

FC11130-42 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits low.

FC11130-42: Sample was not preserved to a pH < 2.

V2P3894-BS for trans-1,3-Dichloropropene: Sporadic marginal failure.

Matrix: AQ **Batch ID:** V2P3895

Sample(s) FC11083-16MS, FC11083-16MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Acetone are outside control limits.

Matrix Spike Recovery(s) for Bromoform, cis-1,2-Dichloroethylene, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Benzene, Bromodichloromethane, Bromoform, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methyl Bromide, Styrene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene, Vinyl Chloride, Xylene (total) are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone, Benzene, Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, cis-1,2-Dichloroethylene, cis-1,3-Dichloropropene, Dibromochloromethane, Ethylbenzene, Methyl Bromide, Methyl Chloride, Methylene Chloride, Styrene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethylene, Vinyl Chloride, Xylene (total) are outside control limits for sample FC11083-16MSD. Probable cause is due to sample non-homogeneity.

For Sample(s) FC11130-16, FC11130-30, FC11130-35, FC11130-36, FC11130-37 are associated with an CCV that has a recovery for Methyl Bromide outside low control limit.

FC11130-16 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.
FC11130-16 for Methyl Bromide: Associated CCV outside of control limits low.
FC11130-16 for Methylene Chloride: Suspected laboratory contaminant.
FC11130-16: Sample was not preserved to a pH < 2.

FC11130-22: Sample was not preserved to a pH < 2.

FC11130-23: Sample was not preserved to a pH < 2.

FC11130-24: Sample was not preserved to a pH < 2.

FC11130-25: Sample was not preserved to a pH < 2.

FC11130-29: Sample was not preserved to a pH < 2.

FC11130-30 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-30 for Methyl Bromide: Associated CCV outside of control limits low.

FC11130-30 for Methylene Chloride: Suspected laboratory contaminant.

FC11130-30: Sample was not preserved to a pH < 2.

FC11130-33: Sample was not preserved to a pH < 2.

FC11130-35 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-35 for Methyl Bromide: Associated CCV outside of control limits low.

FC11130-35 for Methylene Chloride: Suspected laboratory contaminant.

FC11130-35: Sample was not preserved to a pH < 2.

FC11130-36 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-36 for Methyl Bromide: Associated CCV outside of control limits low.

FC11130-36 for Methylene Chloride: Suspected laboratory contaminant.

FC11130-36: Sample was not preserved to a pH < 2.

FC11130-37 for Acetone: Associated ICV and BS recovery outside control limits high.

FC11130-37 for Methyl Bromide: Associated CCV outside of control limits low.

FC11130-37: Sample was not preserved to a pH < 2.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VI3079

Sample(s) FC11130-5MS, FC11130-5MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Acetone are outside control limits.

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

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

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FC11130-5MSD. Probable cause is due to sample non-homogeneity.

VI3079-MB: Sample was treated with an anti-foaming agent.

FC11130-1 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-1 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-1: Sample was not preserved to a pH < 2.

FC11130-2 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-2 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-2: Sample was not preserved to a pH < 2.

FC11130-3 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-3 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-3: Sample was not preserved to a pH < 2.

FC11130-4 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-4 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-4: Sample was not preserved to a pH < 2.

FC11130-5 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-5 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-5: Sample was not preserved to a pH < 2.

FC11130-6 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-6 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-6: Sample was not preserved to a pH < 2.

FC11130-7 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-7 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-7: Sample was not preserved to a pH < 2.

FC11130-8 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-8 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-8: Sample was not preserved to a pH < 2.

FC11130-9 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-9 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-9: Sample was not preserved to a pH < 2.

FC11130-10 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-10 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-10: Sample was not preserved to a pH < 2.

FC11130-11 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-11 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-11: Sample was not preserved to a pH < 2.

FC11130-12 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-12 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-12: Sample was not preserved to a pH < 2.

FC11130-13 for 1,1,1-Trichloroethane: Associated CCV outside of control limits high, sample was ND.

FC11130-13 for Acetone: Associated ICV and BS recovery outside control limits high, sample is ND.

FC11130-13: Sample was not preserved to a pH < 2. Sample was treated with an anti-foaming agent.

SGS North America Inc. - Orlando 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.- Orlando 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:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: FC11130
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23 thru 11/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC11130-1	**MW-34D**					
No hits reported in this sample.						
FC11130-2	**MW-35D**					
No hits reported in this sample.						
FC11130-3	**MW-36D**					
Toluene [a]		1.5	1.0	0.30	ug/l	SW846 8260D
FC11130-4	**MW-33D**					
Toluene [a]		0.90 J	1.0	0.30	ug/l	SW846 8260D
FC11130-5	**MW-30D**					
1,1-Dichloroethylene [a]		1.2	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		53.2	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.62 J	1.0	0.30	ug/l	SW846 8260D
Trichloroethylene [a]		0.73 J	1.0	0.35	ug/l	SW846 8260D
FC11130-6	**MW-31D**					
1,1-Dichloroethylene [a]		3.7	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		128	5.0	1.1	ug/l	SW846 8260D
FC11130-7	**MW-25D**					
1,1-Dichloroethylene [a]		1.2	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		63.3	1.0	0.22	ug/l	SW846 8260D
FC11130-8	**MW-32DR**					
Tetrachloroethylene [a]		19.1	1.0	0.22	ug/l	SW846 8260D
FC11130-9	**MW-26D**					
1,1-Dichloroethylene [a]		0.72 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		42.3	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.73 J	1.0	0.35	ug/l	SW846 8260D

Summary of Hits

Job Number: FC11130
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23 thru 11/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC11130-10	**MW-22D**					
1,1-Dichloroethylene [a]		1.5	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		79.3	5.0	1.1	ug/l	SW846 8260D
Toluene [a]		0.47 J	1.0	0.30	ug/l	SW846 8260D
FC11130-11	**MW-22D-A**					
1,1-Dichloroethylene [a]		1.5	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		86.8	5.0	1.1	ug/l	SW846 8260D
FC11130-12	**MW-14**					
No hits reported in this sample.						
FC11130-13	**MW-14D**					
1,1-Dichloroethylene [b]		0.40 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [b]		35.5	1.0	0.22	ug/l	SW846 8260D
FC11130-14	**MW-14D-A**					
1,1-Dichloroethylene [a]		0.87 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.50 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		48.7	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.79 J	1.0	0.35	ug/l	SW846 8260D
FC11130-15	**MW-18**					
Toluene [a]		0.82 J	1.0	0.30	ug/l	SW846 8260D
FC11130-16	**MW-10**					
1,1-Dichloroethylene [a]		27.0	10	3.2	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		405	10	2.8	ug/l	SW846 8260D
Ethylbenzene [a]		3.8 J	10	3.6	ug/l	SW846 8260D
Methylene Chloride [c]		23.5 J	50	20	ug/l	SW846 8260D
Tetrachloroethylene [a]		327	10	2.2	ug/l	SW846 8260D
Trichloroethylene [a]		63.2	10	3.5	ug/l	SW846 8260D
FC11130-17	**MW-10D**					
Tetrachloroethylene [a]		0.41 J	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.36 J	1.0	0.30	ug/l	SW846 8260D

Summary of Hits

Job Number: FC11130
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23 thru 11/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC11130-18	**MW-9**					
cis-1,2-Dichloroethylene [a]		1.4	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		59.5	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		10.6	1.0	0.35	ug/l	SW846 8260D
FC11130-19	**MW-28**					
No hits reported in this sample.						
FC11130-20	**MW-27**					
No hits reported in this sample.						
FC11130-21	**MW-12D**					
Acetone [d]		10.5 J	25	10	ug/l	SW846 8260D
Tetrachloroethylene [e]		17.5	1.0	0.22	ug/l	SW846 8260D
FC11130-22	**MW-13D**					
1,1-Dichloroethylene [a]		2.1	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		70.6	2.0	0.43	ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		0.29 J	1.0	0.25	ug/l	SW846 8260D
FC11130-23	**MW-3**					
cis-1,2-Dichloroethylene [a]		3.1	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		85.7	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		2.5	1.0	0.35	ug/l	SW846 8260D
FC11130-24	**MW-3D**					
1,1-Dichloroethylene [a]		5.7	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		9.8	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		261	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		8.1	1.0	0.35	ug/l	SW846 8260D
FC11130-25	**MW-21D**					
Tetrachloroethylene [a]		1.4	1.0	0.22	ug/l	SW846 8260D
FC11130-26	**MW-2**					
No hits reported in this sample.						

Summary of Hits

Job Number: FC11130
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23 thru 11/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC11130-27	**MW-21**					
cis-1,2-Dichloroethylene [a]		600	200	55	ug/l	SW846 8260D
Methylene Chloride [a]		430 JB	1000	400	ug/l	SW846 8260D
Tetrachloroethylene [a]		8950	200	43	ug/l	SW846 8260D
Trichloroethylene [a]		256	200	69	ug/l	SW846 8260D
FC11130-28	**MW-1**					
cis-1,2-Dichloroethylene [a]		1.8	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		57.6	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		3.6	1.0	0.35	ug/l	SW846 8260D
FC11130-29	**MW-8**					
cis-1,2-Dichloroethylene [a]		11.0	2.0	0.55	ug/l	SW846 8260D
Methylene Chloride [a]		5.3 JB	10	4.0	ug/l	SW846 8260D
Tetrachloroethylene [a]		184	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		57.0	2.0	0.69	ug/l	SW846 8260D
FC11130-30	**MW-8-A**					
cis-1,2-Dichloroethylene [a]		12.1	5.0	1.4	ug/l	SW846 8260D
Methylene Chloride [c]		12.0 J	25	10	ug/l	SW846 8260D
Tetrachloroethylene [a]		192	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		57.8	5.0	1.7	ug/l	SW846 8260D
FC11130-31	**MW-7**					
Toluene [a]		0.34 J	1.0	0.30	ug/l	SW846 8260D
FC11130-32	**MW-24**					
cis-1,2-Dichloroethylene [a]		9.3 J	20	5.5	ug/l	SW846 8260D
Tetrachloroethylene [a]		1150	20	4.3	ug/l	SW846 8260D
FC11130-33	**MW-24-A**					
cis-1,2-Dichloroethylene [a]		7.3 J	10	2.8	ug/l	SW846 8260D
Methylene Chloride [a]		27.6 JB	50	20	ug/l	SW846 8260D
Tetrachloroethylene [a]		1050	20	4.3	ug/l	SW846 8260D
Trichloroethylene [a]		7.8 J	10	3.5	ug/l	SW846 8260D

Summary of Hits

Job Number: FC11130
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23 thru 11/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC11130-34	**MW-5**					
Tetrachloroethylene [a]		2.1	1.0	0.22	ug/l	SW846 8260D
FC11130-35	**MW-37**					
Methylene Chloride [c]		267 J	500	200	ug/l	SW846 8260D
Tetrachloroethylene [a]		7900	100	22	ug/l	SW846 8260D
FC11130-36	**MW-19**					
Methylene Chloride [c]		1240 J	2500	1000	ug/l	SW846 8260D
Tetrachloroethylene [a]		27900	500	110	ug/l	SW846 8260D
FC11130-37	**MW-20**					
Acetone [f]		12.5 J	25	10	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.85 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		64.7	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.89 J	1.0	0.30	ug/l	SW846 8260D
Trichloroethylene [a]		1.3	1.0	0.35	ug/l	SW846 8260D
FC11130-38	**TRIP BLANK**					
Toluene [a]		31.2	1.0	0.30	ug/l	SW846 8260D
FC11130-39	**SW-02-LC**					
No hits reported in this sample.						
FC11130-40	**SW-03-HMB**					
No hits reported in this sample.						
FC11130-41	**SW-01-LC**					
Tetrachloroethylene [a]		1.4	1.0	0.22	ug/l	SW846 8260D
FC11130-42	**SW-05-LC**					
Tetrachloroethylene [a]		0.70 J	1.0	0.22	ug/l	SW846 8260D

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Sample was treated with an anti-foaming agent.
(c) Sample was not preserved to a pH < 2. Suspected laboratory contaminant.

Summary of Hits

Job Number: FC11130
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23 thru 11/08/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(d) Result reported from vial with pH > 8 and should be used for screening purposes only. Associated ICV outside control limits high.
(e) Result reported from vial with pH > 8 and should be used for screening purposes only.
(f) Sample was not preserved to a pH < 2. Associated ICV and BS recovery outside control limits high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-34D
Lab Sample ID: FC11130-1
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/08/23
Date Received: 11/09/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I760310.D	1	11/13/23 10:50	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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 [c]	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:	FC11130-1	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	96%		79-125%
2037-26-5	Toluene-D8	89%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-35D		
Lab Sample ID:	FC11130-2	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760311.D	1	11/13/23 11:14	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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 [c]	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:	FC11130-2	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	93%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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:	FC11130-3	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760312.D	1	11/13/23 11:38	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	1.5	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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:	FC11130-3	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	94%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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:	FC11130-4	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760313.D	1	11/13/23 12:01	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	0.90	1.0	0.30	ug/l	J
71-55-6	1,1,1-Trichloroethane [c]	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:	FC11130-4	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	91%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-30D		
Lab Sample ID:	FC11130-5	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760303.D	1	11/13/23 08:04	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.2	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	53.2	1.0	0.22	ug/l	
108-88-3	Toluene	0.62	1.0	0.30	ug/l	J
71-55-6	1,1,1-Trichloroethane [c]	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	0.73	1.0	0.35	ug/l	J

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

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

Report of Analysis

Client Sample ID:	MW-30D		
Lab Sample ID:	FC11130-5	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	97%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-31D		
Lab Sample ID:	FC11130-6	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760314.D	1	11/13/23 12:25	JW	n/a	n/a	VI3079
Run #2 [a]	2O80223.D	5	11/14/23 13:01	JW	n/a	n/a	V2O3138

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	3.7	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	128 [d]	5.0	1.1	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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-31D		
Lab Sample ID:	FC11130-6	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	99%	79-125%
2037-26-5	Toluene-D8	90%	104%	85-112%
460-00-4	4-Bromofluorobenzene	96%	101%	83-118%

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

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

Report of Analysis

Client Sample ID: MW-25D
Lab Sample ID: FC11130-7
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/08/23
Date Received: 11/09/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I760315.D	1	11/13/23 12:49	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.2	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	63.3	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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-25D		
Lab Sample ID:	FC11130-7	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	95%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-32DR
Lab Sample ID: FC11130-8
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/08/23
Date Received: 11/09/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	I760316.D	1	11/13/23 13:12	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	19.1	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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:	FC11130-8	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	95%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-26D		
Lab Sample ID:	FC11130-9	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760317.D	1	11/13/23 13:36	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.72	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	42.3	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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	0.73	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-26D		
Lab Sample ID:	FC11130-9	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	94%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-22D		
Lab Sample ID:	FC11130-10	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760318.D	1	11/13/23 14:00	JW	n/a	n/a	VI3079
Run #2 [a]	2O80224.D	5	11/14/23 13:27	JW	n/a	n/a	V2O3138

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.5	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	79.3 [d]	5.0	1.1	ug/l	
108-88-3	Toluene	0.47	1.0	0.30	ug/l	J
71-55-6	1,1,1-Trichloroethane [c]	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:	FC11130-10	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	100%	79-125%
2037-26-5	Toluene-D8	90%	104%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-22D-A		
Lab Sample ID:	FC11130-11	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760319.D	1	11/13/23 14:23	JW	n/a	n/a	VI3079
Run #2 [a]	2O80225.D	5	11/14/23 13:52	JW	n/a	n/a	V2O3138

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.5	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	86.8 [d]	5.0	1.1	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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:	FC11130-11	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	98%	79-125%
2037-26-5	Toluene-D8	91%	104%	85-112%
460-00-4	4-Bromofluorobenzene	98%	101%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	FC11130-12	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760320.D	1	11/13/23 14:47	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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 [c]	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:	FC11130-12	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	95%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, 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-14D		
Lab Sample ID:	FC11130-13	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	I760321.D	1	11/13/23 15:11	JW	n/a	n/a	VI3079
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [c]	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 [c]	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.40	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 [c]	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane [c]	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	35.5	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane [c]	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:	FC11130-13	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	92%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2. Sample was treated with an anti-foaming agent.
(b) Associated ICV and BS recovery outside control limits high, 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-14D-A		
Lab Sample ID:	FC11130-14	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102576.D	1	11/13/23 11:30	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.87	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.50	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	48.7	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	0.79	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:	FC11130-14	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-18		
Lab Sample ID:	FC11130-15	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102577.D	1	11/13/23 11:56	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	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-18		
Lab Sample ID:	FC11130-15	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-10		
Lab Sample ID:	FC11130-16	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102641.D	10	11/14/23 16:10	JL	n/a	n/a	V2P3895
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	250	100	ug/l	
71-43-2	Benzene	ND	10	3.1	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.4	ug/l	
75-25-2	Bromoform	ND	10	4.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	20	ug/l	
75-15-0	Carbon Disulfide	ND	20	5.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	10	3.6	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane	ND	20	6.7	ug/l	
67-66-3	Chloroform	ND	10	3.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	3.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
75-35-4	1,1-Dichloroethylene	27.0	10	3.2	ug/l	
156-59-2	cis-1,2-Dichloroethylene	405	10	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.2	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	4.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.1	ug/l	
100-41-4	Ethylbenzene	3.8	10	3.6	ug/l	J
591-78-6	2-Hexanone	ND	100	20	ug/l	
74-83-9	Methyl Bromide [c]	ND	50	20	ug/l	
74-87-3	Methyl Chloride	ND	20	5.0	ug/l	
75-09-2	Methylene Chloride [d]	23.5	50	20	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	10	ug/l	
100-42-5	Styrene	ND	10	2.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
127-18-4	Tetrachloroethylene	327	10	2.2	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	4.7	ug/l	
79-01-6	Trichloroethylene	63.2	10	3.5	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:	FC11130-16	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	10	4.1	ug/l	
1330-20-7	Xylene (total)	ND	30	7.2	ug/l	

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

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Suspected laboratory contaminant.

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:	FC11130-17	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102579.D	1	11/13/23 12:47	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	0.41	1.0	0.22	ug/l	J
108-88-3	Toluene	0.36	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:	FC11130-17	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-9		
Lab Sample ID:	FC11130-18	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102575.D	1	11/13/23 11:04	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.4	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	59.5	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	10.6	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-9		
Lab Sample ID:	FC11130-18	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-28		
Lab Sample ID:	FC11130-19	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102580.D	1	11/13/23 13:13	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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:	MW-28		
Lab Sample ID:	FC11130-19	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-27		
Lab Sample ID:	FC11130-20	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102581.D	1	11/13/23 13:38	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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:	MW-27		
Lab Sample ID:	FC11130-20	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-12D		
Lab Sample ID:	FC11130-21	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102582.D	1	11/13/23 14:04	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	10.5	25	10	ug/l	J
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	17.5	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-12D		
Lab Sample ID:	FC11130-21	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	86%		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	102%		83-118%

(a) Result reported from vial with pH > 8 and should be used for screening purposes only.
(b) Associated ICV outside control limits high.
(c) 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:	MW-13D		
Lab Sample ID:	FC11130-22	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102583.D	1	11/13/23 14:29	JL	n/a	n/a	V2P3893
Run #2 [a]	2P102642.D	2	11/14/23 16:36	JL	n/a	n/a	V2P3895

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.1	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	70.6 [d]	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	0.29	1.0	0.25	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit
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:	FC11130-22	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	104%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	79-125%
2037-26-5	Toluene-D8	101%	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	99%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FC11130-23	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102584.D	1	11/13/23 14:55	JL	n/a	n/a	V2P3893
Run #2 [a]	2P102643.D	2	11/14/23 17:01	JL	n/a	n/a	V2P3895

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.1	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 [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	85.7 [d]	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	2.5	1.0	0.35	ug/l	

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FC11130-23	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	105%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	99%	79-125%
2037-26-5	Toluene-D8	100%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	102%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-3D		
Lab Sample ID:	FC11130-24	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102585.D	1	11/13/23 15:21	JL	n/a	n/a	V2P3893
Run #2 [a]	2P102644.D	5	11/14/23 17:27	JL	n/a	n/a	V2P3895

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	5.7	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	9.8	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	261 [d]	5.0	1.1	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	8.1	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-3D		
Lab Sample ID:	FC11130-24	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	105%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	97%	79-125%
2037-26-5	Toluene-D8	101%	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	101%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-21D		
Lab Sample ID:	FC11130-25	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102586.D	1	11/13/23 15:46	JL	n/a	n/a	V2P3893
Run #2 [a]	2P102633.D	1	11/14/23 12:45	JL	n/a	n/a	V2P3895

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	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 [d]	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

Report of Analysis

Client Sample ID:	MW-21D		
Lab Sample ID:	FC11130-25	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	100%	79-125%
2037-26-5	Toluene-D8	99%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	101%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FC11130-26	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102587.D	1	11/13/23 16:12	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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:	MW-2		
Lab Sample ID:	FC11130-26	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-21		
Lab Sample ID:	FC11130-27	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102588.D	200	11/13/23 16:38	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5000	2000	ug/l	
71-43-2	Benzene	ND	200	62	ug/l	
75-27-4	Bromodichloromethane	ND	200	48	ug/l	
75-25-2	Bromoform	ND	200	81	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	400	ug/l	
75-15-0	Carbon Disulfide	ND	400	110	ug/l	
56-23-5	Carbon Tetrachloride	ND	200	71	ug/l	
108-90-7	Chlorobenzene	ND	200	40	ug/l	
75-00-3	Chloroethane [c]	ND	400	130	ug/l	
67-66-3	Chloroform	ND	200	60	ug/l	
124-48-1	Dibromochloromethane	ND	200	55	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	68	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	62	ug/l	
75-35-4	1,1-Dichloroethylene	ND	200	64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	600	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	430	1000	400	ug/l	JB
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	8950	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	256	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:	FC11130-27	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	104%		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	103%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-1		
Lab Sample ID:	FC11130-28	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102589.D	1	11/13/23 17:03	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.8	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	57.6	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	3.6	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:	FC11130-28	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-8		
Lab Sample ID:	FC11130-29	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102590.D	2	11/13/23 17:29	JL	n/a	n/a	V2P3893
Run #2 [a]	2P102645.D	5	11/14/23 17:53	JL	n/a	n/a	V2P3895

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	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 [c]	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	11.0	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 [c]	ND	4.0	1.0	ug/l	
75-09-2	Methylene Chloride	5.3	10	4.0	ug/l	JB
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	184 [d]	5.0	1.1	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	57.0	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-8		
Lab Sample ID:	FC11130-29	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	103%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	79-125%
2037-26-5	Toluene-D8	99%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	97%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-8-A		
Lab Sample ID:	FC11130-30	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102646.D	5	11/14/23 18:18	JL	n/a	n/a	V2P3895
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	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	ND	5.0	1.6	ug/l	
156-59-2	cis-1,2-Dichloroethylene	12.1	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 [c]	ND	25	10	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
75-09-2	Methylene Chloride [d]	12.0	25	10	ug/l	J
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	192	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	57.8	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-8-A		
Lab Sample ID:	FC11130-30	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	103%		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	103%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Suspected laboratory contaminant.

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:	FC11130-31	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102592.D	1	11/13/23 18:20	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	0.34	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-7		
Lab Sample ID:	FC11130-31	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	100%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-24		
Lab Sample ID:	FC11130-32	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102593.D	20	11/13/23 18:46	JL	n/a	n/a	V2P3893
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	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 [c]	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	9.3	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	1150	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		
Lab Sample ID:	FC11130-32	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, however sample ND.
(c) 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:	MW-24-A		
Lab Sample ID:	FC11130-33	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102594.D	10	11/13/23 19:11	JL	n/a	n/a	V2P3893
Run #2 [a]	2P102647.D	20	11/14/23 18:44	JL	n/a	n/a	V2P3895

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	250	100	ug/l	
71-43-2	Benzene	ND	10	3.1	ug/l	
75-27-4	Bromodichloromethane	ND	10	2.4	ug/l	
75-25-2	Bromoform	ND	10	4.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	20	ug/l	
75-15-0	Carbon Disulfide	ND	20	5.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	10	3.6	ug/l	
108-90-7	Chlorobenzene	ND	10	2.0	ug/l	
75-00-3	Chloroethane [c]	ND	20	6.7	ug/l	
67-66-3	Chloroform	ND	10	3.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	2.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	3.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	3.1	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	3.2	ug/l	
156-59-2	cis-1,2-Dichloroethylene	7.3	10	2.8	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	10	2.2	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	4.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	2.1	ug/l	
100-41-4	Ethylbenzene	ND	10	3.6	ug/l	
591-78-6	2-Hexanone	ND	100	20	ug/l	
74-83-9	Methyl Bromide	ND	50	20	ug/l	
74-87-3	Methyl Chloride [c]	ND	20	5.0	ug/l	
75-09-2	Methylene Chloride	27.6	50	20	ug/l	JB
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	10	ug/l	
100-42-5	Styrene	ND	10	2.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
127-18-4	Tetrachloroethylene	1050 [d]	20	4.3	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	4.7	ug/l	
79-01-6	Trichloroethylene	7.8	10	3.5	ug/l	J

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

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

Report of Analysis

Client Sample ID:	MW-24-A		
Lab Sample ID:	FC11130-33	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	10	4.1	ug/l	
1330-20-7	Xylene (total)	ND	30	7.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FC11130-34	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102616.D	1	11/14/23 04:36	JL	n/a	n/a	V2P3894
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene [d]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	2.1	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FC11130-34	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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 [c]	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	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Associated BS recovery outside 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:	MW-37		
Lab Sample ID:	FC11130-35	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102648.D	100	11/14/23 19:10	JL	n/a	n/a	V2P3895
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	2500	1000	ug/l	
71-43-2	Benzene	ND	100	31	ug/l	
75-27-4	Bromodichloromethane	ND	100	24	ug/l	
75-25-2	Bromoform	ND	100	41	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	200	ug/l	
75-15-0	Carbon Disulfide	ND	200	53	ug/l	
56-23-5	Carbon Tetrachloride	ND	100	36	ug/l	
108-90-7	Chlorobenzene	ND	100	20	ug/l	
75-00-3	Chloroethane	ND	200	67	ug/l	
67-66-3	Chloroform	ND	100	30	ug/l	
124-48-1	Dibromochloromethane	ND	100	28	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	34	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	100	28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	22	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	21	ug/l	
100-41-4	Ethylbenzene	ND	100	36	ug/l	
591-78-6	2-Hexanone	ND	1000	200	ug/l	
74-83-9	Methyl Bromide [c]	ND	500	200	ug/l	
74-87-3	Methyl Chloride	ND	200	50	ug/l	
75-09-2	Methylene Chloride [d]	267	500	200	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	100	ug/l	
100-42-5	Styrene	ND	100	22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	30	ug/l	
127-18-4	Tetrachloroethylene	7900	100	22	ug/l	
108-88-3	Toluene	ND	100	30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	47	ug/l	
79-01-6	Trichloroethylene	ND	100	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-37		
Lab Sample ID:	FC11130-35	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	100	41	ug/l	
1330-20-7	Xylene (total)	ND	300	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	101%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Suspected laboratory contaminant.

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:	FC11130-36	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102649.D	500	11/14/23 19:35	JL	n/a	n/a	V2P3895
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	13000	5000	ug/l	
71-43-2	Benzene	ND	500	160	ug/l	
75-27-4	Bromodichloromethane	ND	500	120	ug/l	
75-25-2	Bromoform	ND	500	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	1000	ug/l	
75-15-0	Carbon Disulfide	ND	1000	270	ug/l	
56-23-5	Carbon Tetrachloride	ND	500	180	ug/l	
108-90-7	Chlorobenzene	ND	500	100	ug/l	
75-00-3	Chloroethane	ND	1000	330	ug/l	
67-66-3	Chloroform	ND	500	150	ug/l	
124-48-1	Dibromochloromethane	ND	500	140	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	170	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	160	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	160	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	140	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	500	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	210	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	150	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	110	ug/l	
100-41-4	Ethylbenzene	ND	500	180	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
74-83-9	Methyl Bromide [c]	ND	2500	1000	ug/l	
74-87-3	Methyl Chloride	ND	1000	250	ug/l	
75-09-2	Methylene Chloride [d]	1240	2500	1000	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2500	500	ug/l	
100-42-5	Styrene	ND	500	110	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	150	ug/l	
127-18-4	Tetrachloroethylene	27900	500	110	ug/l	
108-88-3	Toluene	ND	500	150	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	500	120	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	230	ug/l	
79-01-6	Trichloroethylene	ND	500	170	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	FC11130-36	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	500	200	ug/l	
1330-20-7	Xylene (total)	ND	1500	360	ug/l	

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

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Suspected laboratory contaminant.

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:	FC11130-37	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102635.D	1	11/14/23 13:36	JL	n/a	n/a	V2P3895
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	12.5	25	10	ug/l	J
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.85	1.0	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	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	64.7	1.0	0.22	ug/l	
108-88-3	Toluene	0.89	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	1.3	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-20		
Lab Sample ID:	FC11130-37	**Date Sampled:**	11/08/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV and BS recovery outside control limits high.
(c) 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:	TRIP BLANK		
Lab Sample ID:	FC11130-38	**Date Sampled:**	11/07/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/09/23
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]	2P102617.D	1	11/14/23 05:02	JL	n/a	n/a	V2P3894
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene [d]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	31.2	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:	TRIP BLANK		
Lab Sample ID:	FC11130-38	**Date Sampled:**	11/07/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/09/23
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 [c]	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	98%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Associated BS recovery outside 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:	SW-02-LC		
Lab Sample ID:	FC11130-39	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102618.D	1	11/14/23 05:27	JL	n/a	n/a	V2P3894
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene [d]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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:	FC11130-39	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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 [c]	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	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Associated BS recovery outside control limits low.

Report of Analysis

Client Sample ID:	SW-03-HMB		
Lab Sample ID:	FC11130-40	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102619.D	1	11/14/23 05:53	JL	n/a	n/a	V2P3894
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene [d]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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-03-HMB		
Lab Sample ID:	FC11130-40	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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 [c]	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	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Associated BS recovery outside 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:	SW-01-LC		
Lab Sample ID:	FC11130-41	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102620.D	1	11/14/23 06:19	JL	n/a	n/a	V2P3894
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene [d]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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:	SW-01-LC		
Lab Sample ID:	FC11130-41	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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 [c]	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	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Associated BS recovery outside 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:	SW-05-LC		
Lab Sample ID:	FC11130-42	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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]	2P102621.D	1	11/14/23 06:45	JL	n/a	n/a	V2P3894
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene [d]	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [c]	ND	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	0.70	1.0	0.22	ug/l	J
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	SW-05-LC		
Lab Sample ID:	FC11130-42	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/09/23
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 [c]	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	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated ICV outside control limits high, sample is ND.
(c) Associated CCV outside of control limits low.
(d) Associated BS recovery outside 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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC11130 PAGE 1 OF 4

SGS - ORLANDO Quote # SAMPLE #

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr. Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffin Colling

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60706447
Fax #:
Client Purchase Order #: 161045

Analytical Information

VOCs 8260 TCL (SM4500 H+B)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
1	MW-34D	11/8/23	0730	JB/GC	GW	3			3							X
2	MW-35D		0745													X
3	MW-36D		0800													X
4	MW-33D		0815													X
5	MW-30D		0830													X
5	MW-30D-MS		0830													X
5	MW-30D-MSD		0830													X
6	MW-31		0845													X
7	MW-25		0900													X
8	MW-32DR		0915													X
9	MW-26		0925													X
10	MW-22D		0935													X

INITIAL ASSESSMENT SP

LABEL VERIFICATION ZB

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Raleigh, NC Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	AECOM	11/8/23 1730	2 Fx	3 Fx		4 SP 11/10/23 945
5	Relinquished by/Affiliation	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8 SP 11/09/23

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 3.6 IR #1

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC11130 PAGE 2 OF 4

SGS - ORLANDO Quote #

Orlando

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr Bldg V Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffin Colling

Project Information

Project Name: Delaven Spray Technologies
Street: 4334 ~~Bamberg~~ Main Hwy
City: Bamberg State: SC
Project # 60707844
Fax #
Client Purchase Order # 1610495

Analytical Information

VOCs + MW-22D-a

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	CONTAINER INFORMATION TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
11	MW-22D-a	7/8/23	0935	JB/GC	GW	3			3							
12	MW-14		0945													
13	MW-14D		0950													
14	MW-14D-a		0950													
15	MW-18		1025													
16	MW-10		1035													
17	MW-10D		1045													
18	MW-9		1055													
18	MW-9-MS		1050													
18	MW-9-MSD		1056													
19	MW-28		1110													
20	MW-27		1120													

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Approved By: / Date:
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Raleigh, NC Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 AECOM	11/8/23 1630	2 FX	3 FX		4 11/10/23 11/09/23
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

SGS North America Inc - Orlando

Chain of Custody

SGS Orlando

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC11130 PAGE 3 OF 4

SGS - ORLANDO Quote # STAFF

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffin Collins

Project Information

Project Name: Delavan Spray Technologies
Street 4334 Mark Hwy
City Bamberg State SC
Project # 6070644
Fax #
Client Purchase Order # 161095

Analytical Information

Y8928A (MS + DUP)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	LAB USE ONLY
21	MW-12D	11/8/23	1130	JB/GC	GW	3			3							
22	MW-13D		1135													
23	MW-3		1150													
24	MW-3D		1155													
25	MW-21D		1205													
26	MW-2		1210													
27	MW-21		1220													
28	MW-1		1225													
29	MW-8		1230													
30	MW-8-a		1230													
31	MW-7		1240													
32	MW-24		1250													

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Approved By: / Date:
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Raleigh, NC Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	AECOM	11/8/23 1630	2 FX	3 FX		4 11/10/23 SP
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
	5		6	7		8 11/09/23

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC11130 PAGE 4 OF 4

SGS - ORLANDO Quote # STAFF

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Butler Sampler 2: Griffin Collins

Project Information

Project Name: Delavan Spray Technologies
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60707644
Fax #:
Client Purchase Order #: 1610495

Analytical Information

VOCs + unpr

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	LAB USE ONLY
33	MW-24D-a	11/8/23	1250	JB/GC	GW	3			3							X
34	MW-5		1305													X
35	MW-37		1320													X
36	MW-19		1335													X
37	MW-20		1345													X
38	Trip Blank					2			2							X
39	SW-02-LC	11/7/23	1340			3			3							X
40	SW-03-HMB		1355													X
41	SW-01-LC		1415													X
42	SW-05-LC		1440													X

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- COMMERCIAL "A" (RESULTS ONLY)
- COMMERCIAL "B" (RESULTS PLUS QC)
- REDT1 (EPA LEVEL 3)
- FULLT1 (EPA LEVEL 4)
- EDD'S

Comments / Remarks

Raleigh, NC Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	AECOM	11/8/23 1600	2 Fx	3 Fx		4 SPH 11/09/23
5	Relinquished by/Affiliation	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Time:	8 Received By/Affiliation

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FC11130: Chain of Custody
Page 4 of 6

SGS Sample Receipt Summary

Job Number: fc11130 **Client:** AECOM **Project:** 6070644

Date / Time Received: 11/9/2023 9:45:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7043 0339 0237

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

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 presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar Received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc Information

Number of Encores: 25 Gram 5 Gram

Test Strip Lot #s: pH 0-3: 226422 pH 10-12:

Residual Chlorine Test Strip Lot #

Number of Lab Filtered Metals:

Other: (Specify) pH 1.0 - 12.0 222221

Comments VIALS REC'D UNPRESERVED.

SM001
Rev. Date 05/04/17

Technician: SHAYLAP Date: 11/10/2023 5:41:59 PM Reviewer: Date:

Job Change Order: FC11130

Requested Date:	11/13/2023	**Received Date:**	11/9/2023
Account Name:	Raytheon Technologies	**Due Date:**	11/13/2023
Project Description:	AECOMSCG: Delavan Spray Technologies; Bam	**Deliverable:**	COMMBN
C/O Initiated By:	MUNA_MOH **PM:** MMO	**TAT (Days):**	14

==========

Sample #: FC11130-6 **Dept:** LOGIN

Client ID: MW-31D **TAT:** 14

Change: Per client request sample ID should be MW-31D

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Sample #: FC11130-7 **Dept:** LOGIN

Client ID: MW-25D **TAT:** 14

Change: Per client request sample ID should be MW-25D

==========

Sample #: FC11130-9 **Dept:** LOGIN

Client ID: MW-26D **TAT:** 14

Change: Per client request sample ID should be MW-26D

==========

Sample #: FC11130-33 **Dept:** LOGIN

Client ID: MW-24-A **TAT:** 14

Change: Per client request sample ID should be MW-24-A

FC11130: Chain of Custody
Page 6 of 6

Above Changes Per: Doria Cullom **Date/Time:** 11/13/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI3079-MB [a]	I760302.D	1	11/13/23	JW	n/a	n/a	VI3079

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

FC11130-1, FC11130-2, FC11130-3, FC11130-4, FC11130-5, FC11130-6, FC11130-7, FC11130-8, FC11130-9, FC11130-10, FC11130-11, FC11130-12, FC11130-13

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: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI3079-MB [a]	I760302.D	1	11/13/23	JW	n/a	n/a	VI3079

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

FC11130-1, FC11130-2, FC11130-3, FC11130-4, FC11130-5, FC11130-6, FC11130-7, FC11130-8, FC11130-9, FC11130-10, FC11130-11, FC11130-12, FC11130-13

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	79-125%
2037-26-5	Toluene-D8	92%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3893-MB	2P102574.D	1	11/13/23	JL	n/a	n/a	V2P3893

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

FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33

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	7.1	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: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3893-MB	2P102574.D	1	11/13/23	JL	n/a	n/a	V2P3893

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

FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3894-MB	2P102604.D	1	11/13/23	JL	n/a	n/a	V2P3894

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

FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42

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: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3894-MB	2P102604.D	1	11/13/23	JL	n/a	n/a	V2P3894

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

FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Method Blank Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O3138-MB [a]	2O80212.D	1	11/14/23	JW	n/a	n/a	V2O3138

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

FC11130-6, FC11130-10, FC11130-11

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3895-MB	2P102629.D	1	11/14/23	JL	n/a	n/a	V2P3895

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

FC11130-16, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-29, FC11130-30, FC11130-33, FC11130-35, FC11130-36, FC11130-37

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: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3895-MB	2P102629.D	1	11/14/23	JL	n/a	n/a	V2P3895

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

FC11130-16, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-29, FC11130-30, FC11130-33, FC11130-35, FC11130-36, FC11130-37

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI3079-BS	I760300.D	1	11/13/23	JW	n/a	n/a	VI3079

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

FC11130-1, FC11130-2, FC11130-3, FC11130-4, FC11130-5, FC11130-6, FC11130-7, FC11130-8, FC11130-9, FC11130-10, FC11130-11, FC11130-12, FC11130-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	211	169*	50-147
71-43-2	Benzene	25	29.2	117	81-122
75-27-4	Bromodichloromethane	25	29.6	118	79-123
75-25-2	Bromoform	25	24.8	99	66-123
78-93-3	2-Butanone (MEK)	125	176	141	56-143
75-15-0	Carbon Disulfide	25	31.5	126	66-148
56-23-5	Carbon Tetrachloride	25	32.6	130	76-136
108-90-7	Chlorobenzene	25	26.4	106	82-124
75-00-3	Chloroethane	25	34.8	139	62-144
67-66-3	Chloroform	25	29.5	118	80-124
124-48-1	Dibromochloromethane	25	28.5	114	78-122
75-34-3	1,1-Dichloroethane	25	28.6	114	81-122
107-06-2	1,2-Dichloroethane	25	28.6	114	75-125
75-35-4	1,1-Dichloroethylene	25	29.7	119	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.5	110	78-120
156-60-5	trans-1,2-Dichloroethylene	25	30.4	122	76-127
78-87-5	1,2-Dichloropropane	25	30.9	124	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.5	110	75-118
10061-02-6	trans-1,3-Dichloropropene	25	22.9	92	80-120
100-41-4	Ethylbenzene	25	26.5	106	81-121
591-78-6	2-Hexanone	125	142	114	61-129
74-83-9	Methyl Bromide	25	35.4	142	59-143
74-87-3	Methyl Chloride	25	36.2	145	50-159
75-09-2	Methylene Chloride	25	32.5	130	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	138	110	66-122
100-42-5	Styrene	25	25.1	100	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.7	99	72-120
127-18-4	Tetrachloroethylene	25	25.6	102	76-135
108-88-3	Toluene	25	26.8	107	80-120
71-55-6	1,1,1-Trichloroethane	25	30.3	121	75-130
79-00-5	1,1,2-Trichloroethane	25	25.5	102	76-119
79-01-6	Trichloroethylene	25	29.5	118	81-126
75-01-4	Vinyl Chloride	25	33.3	133	69-159
1330-20-7	Xylene (total)	75	80.0	107	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI3079-BS	I760300.D	1	11/13/23	JW	n/a	n/a	VI3079

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

FC11130-1, FC11130-2, FC11130-3, FC11130-4, FC11130-5, FC11130-6, FC11130-7, FC11130-8, FC11130-9, FC11130-10, FC11130-11, FC11130-12, FC11130-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	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	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3893-BS	2P102572.D	1	11/13/23	JL	n/a	n/a	V2P3893

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

FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	184	147	50-147
71-43-2	Benzene	25	21.1	84	81-122
75-27-4	Bromodichloromethane	25	22.7	91	79-123
75-25-2	Bromoform	25	25.9	104	66-123
78-93-3	2-Butanone (MEK)	125	120	96	56-143
75-15-0	Carbon Disulfide	25	25.2	101	66-148
56-23-5	Carbon Tetrachloride	25	25.8	103	76-136
108-90-7	Chlorobenzene	25	22.6	90	82-124
75-00-3	Chloroethane	25	19.4	78	62-144
67-66-3	Chloroform	25	22.9	92	80-124
124-48-1	Dibromochloromethane	25	28.5	114	78-122
75-34-3	1,1-Dichloroethane	25	21.0	84	81-122
107-06-2	1,2-Dichloroethane	25	21.7	87	75-125
75-35-4	1,1-Dichloroethylene	25	21.8	87	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.5	98	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.2	89	76-127
78-87-5	1,2-Dichloropropane	25	21.5	86	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.0	96	75-118
10061-02-6	trans-1,3-Dichloropropene	25	21.1	84	80-120
100-41-4	Ethylbenzene	25	21.0	84	81-121
591-78-6	2-Hexanone	125	110	88	61-129
74-83-9	Methyl Bromide	25	21.1	84	59-143
74-87-3	Methyl Chloride	25	21.1	84	50-159
75-09-2	Methylene Chloride	25	22.0	88	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	110	88	66-122
100-42-5	Styrene	25	23.2	93	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	19.8	79	72-120
127-18-4	Tetrachloroethylene	25	22.1	88	76-135
108-88-3	Toluene	25	21.9	88	80-120
71-55-6	1,1,1-Trichloroethane	25	24.4	98	75-130
79-00-5	1,1,2-Trichloroethane	25	21.7	87	76-119
79-01-6	Trichloroethylene	25	23.1	92	81-126
75-01-4	Vinyl Chloride	25	22.6	90	69-159
1330-20-7	Xylene (total)	75	68.5	91	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3893-BS	2P102572.D	1	11/13/23	JL	n/a	n/a	V2P3893

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

FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	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: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3894-BS	2P102600.D	1	11/13/23	JL	n/a	n/a	V2P3894

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

FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	107	86	50-147
71-43-2	Benzene	25	21.3	85	81-122
75-27-4	Bromodichloromethane	25	22.2	89	79-123
75-25-2	Bromoform	25	23.8	95	66-123
78-93-3	2-Butanone (MEK)	125	97.5	78	56-143
75-15-0	Carbon Disulfide	25	24.7	99	66-148
56-23-5	Carbon Tetrachloride	25	26.0	104	76-136
108-90-7	Chlorobenzene	25	22.6	90	82-124
75-00-3	Chloroethane	25	19.7	79	62-144
67-66-3	Chloroform	25	23.1	92	80-124
124-48-1	Dibromochloromethane	25	26.4	106	78-122
75-34-3	1,1-Dichloroethane	25	21.3	85	81-122
107-06-2	1,2-Dichloroethane	25	21.6	86	75-125
75-35-4	1,1-Dichloroethylene	25	21.5	86	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.2	89	76-127
78-87-5	1,2-Dichloropropane	25	22.1	88	76-124
10061-01-5	cis-1,3-Dichloropropene	25	21.9	88	75-118
10061-02-6	trans-1,3-Dichloropropene	25	18.7	75* [a]	80-120
100-41-4	Ethylbenzene	25	20.9	84	81-121
591-78-6	2-Hexanone	125	104	83	61-129
74-83-9	Methyl Bromide	25	19.3	77	59-143
74-87-3	Methyl Chloride	25	21.5	86	50-159
75-09-2	Methylene Chloride	25	24.3	97	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	109	87	66-122
100-42-5	Styrene	25	22.8	91	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	21.0	84	72-120
127-18-4	Tetrachloroethylene	25	20.8	83	76-135
108-88-3	Toluene	25	21.5	86	80-120
71-55-6	1,1,1-Trichloroethane	25	24.0	96	75-130
79-00-5	1,1,2-Trichloroethane	25	21.8	87	76-119
79-01-6	Trichloroethylene	25	22.2	89	81-126
75-01-4	Vinyl Chloride	25	21.7	87	69-159
1330-20-7	Xylene (total)	75	64.9	87	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3894-BS	2P102600.D	1	11/13/23	JL	n/a	n/a	V2P3894

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

FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42

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

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O3138-BS	2O80210.D	1	11/14/23	JW	n/a	n/a	V2O3138

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

FC11130-6, FC11130-10, FC11130-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethylene	25	21.7	87	76-135

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3895-BS	2P102627.D	1	11/14/23	JL	n/a	n/a	V2P3895

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

FC11130-16, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-29, FC11130-30, FC11130-33, FC11130-35, FC11130-36, FC11130-37

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	195	156*	50-147
71-43-2	Benzene	25	21.1	84	81-122
75-27-4	Bromodichloromethane	25	22.7	91	79-123
75-25-2	Bromoform	25	24.4	98	66-123
78-93-3	2-Butanone (MEK)	125	119	95	56-143
75-15-0	Carbon Disulfide	25	23.8	95	66-148
56-23-5	Carbon Tetrachloride	25	25.4	102	76-136
108-90-7	Chlorobenzene	25	21.8	87	82-124
75-00-3	Chloroethane	25	20.7	83	62-144
67-66-3	Chloroform	25	22.8	91	80-124
124-48-1	Dibromochloromethane	25	26.6	106	78-122
75-34-3	1,1-Dichloroethane	25	20.5	82	81-122
107-06-2	1,2-Dichloroethane	25	22.1	88	75-125
75-35-4	1,1-Dichloroethylene	25	20.9	84	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.1	88	76-127
78-87-5	1,2-Dichloropropane	25	21.6	86	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.8	95	75-118
10061-02-6	trans-1,3-Dichloropropene	25	20.3	81	80-120
100-41-4	Ethylbenzene	25	20.4	82	81-121
591-78-6	2-Hexanone	125	107	86	61-129
74-83-9	Methyl Bromide	25	17.7	71	59-143
74-87-3	Methyl Chloride	25	21.6	86	50-159
75-09-2	Methylene Chloride	25	22.5	90	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	106	85	66-122
100-42-5	Styrene	25	22.1	88	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	20.3	81	72-120
127-18-4	Tetrachloroethylene	25	21.5	86	76-135
108-88-3	Toluene	25	21.0	84	80-120
71-55-6	1,1,1-Trichloroethane	25	23.8	95	75-130
79-00-5	1,1,2-Trichloroethane	25	21.6	86	76-119
79-01-6	Trichloroethylene	25	23.0	92	81-126
75-01-4	Vinyl Chloride	25	22.8	91	69-159
1330-20-7	Xylene (total)	75	64.7	86	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3895-BS	2P102627.D	1	11/14/23	JL	n/a	n/a	V2P3895

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

FC11130-16, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-29, FC11130-30, FC11130-33, FC11130-35, FC11130-36, FC11130-37

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	93%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11130-5MS	I760322.D	1	11/13/23	JW	n/a	n/a	VI3079
FC11130-5MSD	I760323.D	1	11/13/23	JW	n/a	n/a	VI3079
FC11130-5 [a]	I760303.D	1	11/13/23	JW	n/a	n/a	VI3079

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

FC11130-1, FC11130-2, FC11130-3, FC11130-4, FC11130-5, FC11130-6, FC11130-7, FC11130-8, FC11130-9, FC11130-10, FC11130-11, FC11130-12, FC11130-13

CAS No.	Compound	FC11130-5 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		125	183	146	125	188	150*	3	50-147/21
71-43-2	Benzene	ND		25	28.2	113	25	28.4	114	1	81-122/14
75-27-4	Bromodichloromethane	ND		25	28.1	112	25	28.9	116	3	79-123/19
75-25-2	Bromoform	ND		25	21.7	87	25	22.4	90	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	155	124	125	159	127	3	56-143/18
75-15-0	Carbon Disulfide	ND		25	29.2	117	25	30.1	120	3	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	32.1	128	25	32.3	129	1	76-136/23
108-90-7	Chlorobenzene	ND		25	24.0	96	25	24.6	98	2	82-124/14
75-00-3	Chloroethane	ND		25	35.1	140	25	40.9	164*	15	62-144/20
67-66-3	Chloroform	ND		25	28.8	115	25	29.5	118	2	80-124/15
124-48-1	Dibromochloromethane	ND		25	26.2	105	25	27.4	110	4	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	27.3	109	25	28.2	113	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	27.6	110	25	27.9	112	1	75-125/14
75-35-4	1,1-Dichloroethylene	1.2		25	30.9	119	25	32.0	123	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.7	111	25	28.6	114	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	29.2	117	25	29.9	120	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	30.4	122	25	30.9	124	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.0	104	25	26.4	106	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	20.4	82	25	21.2	85	4	80-120/22
100-41-4	Ethylbenzene	ND		25	23.7	95	25	24.7	99	4	81-121/14
591-78-6	2-Hexanone	ND		125	122	98	125	127	102	4	61-129/18
74-83-9	Methyl Bromide	ND		25	25.2	101	25	32.8	131	26*	59-143/19
74-87-3	Methyl Chloride	ND		25	34.4	138	25	37.1	148	8	50-159/19
75-09-2	Methylene Chloride	ND		25	25.3	101	25	25.5	102	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	120	96	125	126	101	5	66-122/16
100-42-5	Styrene	ND		25	22.9	92	25	23.9	96	4	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.7	87	25	22.2	89	2	72-120/14
127-18-4	Tetrachloroethylene	53.2		25	91.2	152* [b]	25	90.6	150* [b]	1	76-135/16
108-88-3	Toluene	0.62	J	25	25.6	100	25	26.1	102	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	30.3	121	25	31.3	125	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	23.1	92	25	23.4	94	1	76-119/14
79-01-6	Trichloroethylene	0.73	J	25	29.5	115	25	30.1	117	2	81-126/15
75-01-4	Vinyl Chloride	ND		25	32.2	129	25	34.0	136	5	69-159/18
1330-20-7	Xylene (total)	ND		75	83.2	111	75	87.9	117	5	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11130-5MS	I760322.D	1	11/13/23	JW	n/a	n/a	VI3079
FC11130-5MSD	I760323.D	1	11/13/23	JW	n/a	n/a	VI3079
FC11130-5 [a]	I760303.D	1	11/13/23	JW	n/a	n/a	VI3079

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

FC11130-1, FC11130-2, FC11130-3, FC11130-4, FC11130-5, FC11130-6, FC11130-7, FC11130-8, FC11130-9, FC11130-10, FC11130-11, FC11130-12, FC11130-13

CAS No.	Surrogate Recoveries	MS	MSD	FC11130-5	Limits
1868-53-7	Dibromofluoromethane	108%	105%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	100%	97%	79-125%
2037-26-5	Toluene-D8	94%	95%	91%	85-112%
460-00-4	4-Bromofluorobenzene	100%	99%	97%	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: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11130-18MS	2P102595.D	1	11/13/23	JL	n/a	n/a	V2P3893
FC11130-18MSD	2P102596.D	1	11/13/23	JL	n/a	n/a	V2P3893
FC11130-18 [a]	2P102575.D	1	11/13/23	JL	n/a	n/a	V2P3893

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

FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33

CAS No.	Compound	FC11130-18 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	106	85	125	107	86	1	50-147/21
71-43-2	Benzene	ND		25	24.1	96	25	23.6	94	2	81-122/14
75-27-4	Bromodichloromethane	ND		25	23.5	94	25	24.6	98	5	79-123/19
75-25-2	Bromoform	ND		25	24.9	100	25	25.1	100	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	99.3	79	125	100	80	1	56-143/18
75-15-0	Carbon Disulfide	ND		25	27.8	111	25	28.0	112	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	29.3	117	25	29.1	116	1	76-136/23
108-90-7	Chlorobenzene	ND		25	24.8	99	25	24.7	99	0	82-124/14
75-00-3	Chloroethane	ND		25	23.2	93	25	25.7	103	10	62-144/20
67-66-3	Chloroform	ND		25	25.2	101	25	25.8	103	2	80-124/15
124-48-1	Dibromochloromethane	ND		25	27.3	109	25	28.3	113	4	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	23.2	93	25	23.1	92	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	23.4	94	25	22.9	92	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	25.1	100	25	25.5	102	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.4		25	26.7	101	25	27.5	104	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.4	102	25	24.9	100	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	23.4	94	25	23.7	95	1	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.6	98	25	24.5	98	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	20.9	84	25	21.2	85	1	80-120/22
100-41-4	Ethylbenzene	ND		25	23.5	94	25	23.2	93	1	81-121/14
591-78-6	2-Hexanone	ND		125	104	83	125	105	84	1	61-129/18
74-83-9	Methyl Bromide	ND		25	14.5	58*	25	21.5	86	39*	59-143/19
74-87-3	Methyl Chloride	ND		25	22.5	90	25	26.2	105	15	50-159/19
75-09-2	Methylene Chloride	ND		25	23.4	94	25	23.3	93	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	111	89	125	111	89	0	66-122/16
100-42-5	Styrene	ND		25	24.4	98	25	24.5	98	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.8	87	25	21.8	87	0	72-120/14
127-18-4	Tetrachloroethylene	59.5		25	84.6	100	25	81.8	89	3	76-135/16
108-88-3	Toluene	ND		25	24.1	96	25	23.8	95	1	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	27.0	108	25	28.4	114	5	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	23.5	94	25	22.9	92	3	76-119/14
79-01-6	Trichloroethylene	10.6		25	37.7	108	25	36.7	104	3	81-126/15
75-01-4	Vinyl Chloride	ND		25	25.5	102	25	30.2	121	17	69-159/18
1330-20-7	Xylene (total)	ND		75	72.8	97	75	71.8	96	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11130-18MS	2P102595.D	1	11/13/23	JL	n/a	n/a	V2P3893
FC11130-18MSD	2P102596.D	1	11/13/23	JL	n/a	n/a	V2P3893
FC11130-18 [a]	2P102575.D	1	11/13/23	JL	n/a	n/a	V2P3893

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

FC11130-14, FC11130-15, FC11130-17, FC11130-18, FC11130-19, FC11130-20, FC11130-21, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-26, FC11130-27, FC11130-28, FC11130-29, FC11130-31, FC11130-32, FC11130-33

CAS No.	Surrogate Recoveries	MS	MSD	FC11130-18	Limits
1868-53-7	Dibromofluoromethane	105%	108%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	99%	95%	79-125%
2037-26-5	Toluene-D8	97%	96%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	103%	102%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11083-8MS	2P102601.D	5	11/13/23	JL	n/a	n/a	V2P3894
FC11083-8MSD	2P102602.D	5	11/13/23	JL	n/a	n/a	V2P3894
FC11083-8	2P102605.D	1	11/13/23	JL	n/a	n/a	V2P3894

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

FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42

CAS No.	Compound	FC11083-8 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	520	83	625	493	79	5	50-147/21
71-43-2	Benzene	ND		125	109	87	125	106	85	3	81-122/14
75-27-4	Bromodichloromethane	ND		125	113	90	125	108	86	5	79-123/19
75-25-2	Bromoform	ND		125	126	101	125	127	102	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	477	76	625	456	73	5	56-143/18
75-15-0	Carbon Disulfide	ND		125	129	103	125	126	101	2	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	134	107	125	131	105	2	76-136/23
108-90-7	Chlorobenzene	1.9		125	118	93	125	117	92	1	82-124/14
75-00-3	Chloroethane	ND		125	109	87	125	104	83	5	62-144/20
67-66-3	Chloroform	ND		125	118	94	125	116	93	2	80-124/15
124-48-1	Dibromochloromethane	ND		125	137	110	125	133	106	3	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	108	86	125	105	84	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	110	88	125	105	84	5	75-125/14
75-35-4	1,1-Dichloroethylene	ND		125	113	90	125	109	87	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	123	98	125	120	96	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	114	91	125	113	90	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	113	90	125	108	86	5	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	113	90	125	109	87	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	97.0	78*	125	93.9	75*	3	80-120/22
100-41-4	Ethylbenzene	ND		125	111	89	125	107	86	4	81-121/14
591-78-6	2-Hexanone	ND		625	517	83	625	496	79	4	61-129/18
74-83-9	Methyl Bromide	ND		125	111	89	125	108	86	3	59-143/19
74-87-3	Methyl Chloride	ND		125	119	95	125	112	90	6	50-159/19
75-09-2	Methylene Chloride	ND		125	121	97	125	121	97	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	535	86	625	509	81	5	66-122/16
100-42-5	Styrene	ND		125	116	93	125	116	93	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	105	84	125	105	84	0	72-120/14
127-18-4	Tetrachloroethylene	ND		125	109	87	125	107	86	2	76-135/16
108-88-3	Toluene	ND		125	110	88	125	111	89	1	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	125	100	125	128	102	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	111	89	125	109	87	2	76-119/14
79-01-6	Trichloroethylene	ND		125	117	94	125	112	90	4	81-126/15
75-01-4	Vinyl Chloride	ND		125	128	102	125	121	97	6	69-159/18
1330-20-7	Xylene (total)	ND		375	338	90	375	335	89	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11083-8MS	2P102601.D	5	11/13/23	JL	n/a	n/a	V2P3894
FC11083-8MSD	2P102602.D	5	11/13/23	JL	n/a	n/a	V2P3894
FC11083-8	2P102605.D	1	11/13/23	JL	n/a	n/a	V2P3894

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

FC11130-34, FC11130-38, FC11130-39, FC11130-40, FC11130-41, FC11130-42

CAS No.	Surrogate Recoveries	MS	MSD	FC11083-8	Limits
1868-53-7	Dibromofluoromethane	105%	107%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	93%	97%	79-125%
2037-26-5	Toluene-D8	96%	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	103%	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11001-3MS	2O80232.D	100	11/14/23	JW	n/a	n/a	V2O3138
FC11001-3MSD	2O80233.D	100	11/14/23	JW	n/a	n/a	V2O3138
FC11001-3	2O80213.D	100	11/14/23	JW	n/a	n/a	V2O3138

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

FC11130-6, FC11130-10, FC11130-11

CAS No.	Compound	FC11001-3 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		2500	2080	83	2500	2040	82	2	76-135/16

CAS No.	Surrogate Recoveries	MS	MSD	FC11001-3	Limits
1868-53-7	Dibromofluoromethane	96%	98%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	102%	98%	79-125%
2037-26-5	Toluene-D8	102%	103%	105%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11083-16MS	2P102650.D	5	11/14/23	JL	n/a	n/a	V2P3895
FC11083-16MSD	2P102651.D	5	11/14/23	JL	n/a	n/a	V2P3895
FC11083-16	2P102630.D	1	11/14/23	JL	n/a	n/a	V2P3895

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

FC11130-16, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-29, FC11130-30, FC11130-33, FC11130-35, FC11130-36, FC11130-37

CAS No.	Compound	FC11083-16 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	702	112	625	372	60	61*	50-147/21
71-43-2	Benzene	29.2		125	162	106	125	97.9	55*	49*	81-122/14
75-27-4	Bromodichloromethane	ND		125	145	116	125	77.4	62*	61*	79-123/19
75-25-2	Bromoform	ND		125	163	130*	125	81.5	65*	67*	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	644	103	625	351	56	59*	56-143/18
75-15-0	Carbon Disulfide	ND		125	148	118	125	82.0	66	57*	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	155	124	125	87.2	70*	56*	76-136/23
108-90-7	Chlorobenzene	3.5		125	150	117	125	82.8	63*	58*	82-124/14
75-00-3	Chloroethane	26.9		125	140	90	125	84.7	46*	49*	62-144/20
67-66-3	Chloroform	ND		125	150	120	125	86.4	69*	54*	80-124/15
124-48-1	Dibromochloromethane	ND		125	174	139*	125	89.3	71*	64*	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	135	108	125	75.6	60*	56*	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	143	114	125	78.3	63*	58*	75-125/14
75-35-4	1,1-Dichloroethylene	ND		125	134	107	125	71.4	57*	61*	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	152	122*	125	86.8	69*	55*	78-120/15
156-60-5	trans-1,2-Dichloroethylene	4.1		125	141	110	125	82.9	63*	52*	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	146	117	125	80.2	64*	58*	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	148	118	125	78.5	63*	61*	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	133	106	125	64.9	52*	69*	80-120/22
100-41-4	Ethylbenzene	ND		125	137	110	125	74.5	60*	59*	81-121/14
591-78-6	2-Hexanone	ND		625	667	107	625	349	56*	63*	61-129/18
74-83-9	Methyl Bromide	ND		125	82.0	66	125	65.1	52*	23*	59-143/19
74-87-3	Methyl Chloride	ND		125	136	109	125	77.6	62	55*	50-159/19
75-09-2	Methylene Chloride	ND		125	151	121	125	91.4	73	49*	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	697	112	625	376	60*	60*	66-122/16
100-42-5	Styrene	ND		125	147	118	125	72.9	58*	67*	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	137	110	125	77.9	62*	55*	72-120/14
127-18-4	Tetrachloroethylene	ND		125	134	107	125	70.0	56*	63*	76-135/16
108-88-3	Toluene	ND		125	137	110	125	75.3	60*	58*	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	151	121	125	83.9	67*	57*	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	133	106	125	66.8	53*	66*	76-119/14
79-01-6	Trichloroethylene	ND		125	143	114	125	80.2	64*	56*	81-126/15
75-01-4	Vinyl Chloride	ND		125	143	114	125	80.9	65*	55*	69-159/18
1330-20-7	Xylene (total)	1.8	J	375	422	112	375	229	61*	59*	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC11130
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11083-16MS	2P102650.D	5	11/14/23	JL	n/a	n/a	V2P3895
FC11083-16MSD	2P102651.D	5	11/14/23	JL	n/a	n/a	V2P3895
FC11083-16	2P102630.D	1	11/14/23	JL	n/a	n/a	V2P3895

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

FC11130-16, FC11130-22, FC11130-23, FC11130-24, FC11130-25, FC11130-29, FC11130-30, FC11130-33, FC11130-35, FC11130-36, FC11130-37

CAS No.	Surrogate Recoveries	MS	MSD	FC11083-16	Limits
1868-53-7	Dibromofluoromethane	106%	109%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	97%	97%	79-125%
2037-26-5	Toluene-D8	95%	97%	104%	85-112%
460-00-4	4-Bromofluorobenzene	101%	101%	105%	83-118%

* = Outside of Control Limits.

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, November 2020). 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 FC11130 were collected from November 7-8, 2023 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 sample) were qualified "/B/T" due to the presence of the analyte in the associated trip blank sample.

Detections of methylene chloride less than 71 µg/L in samples associated with batch V2P3893 were qualified "/B/L" due to the presence of the analyte in the associated method blank. The parameter is not considered site-related per EPA data evaluation guidance.

In samples associated with batch V2P3895, detections of acetone were qualified "/J/C" due to recovery of the analyte above established limits in the associated laboratory control sample (156% > 50-150%). These qualifiers indicate the results are over-estimations and should be considered biased high.

Results of methyl bromide in sample MW-9 were qualified "/M/D" due to the relative percent difference between the associated matrix spike and matrix spike duplicate samples exceeding the established criteria (39% > 35%). These qualifiers indicate the 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), November 2020. *USEPA National Functional Guidelines for Organic Superfund Methods Data Review.* Publication #EPA-540-R-20-005.

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

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Automated Report

Technical Report for

Raytheon Technologies

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60656814/TASK 1A

SGS Job Number: FC11040

Sampling Date: 11/07/23



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: **63**

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 unless noted in the narrative, comments or footnotes.

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, IL, UT, VT, WA, WI, WV

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FC11040

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC11040-1	11/07/23	08:15	GCJB	11/08/23	AQ	Ground Water	MW-30D
FC11040-2	11/07/23	08:20	GCJB	11/08/23	AQ	Ground Water	MW-13D
FC11040-3	11/07/23	09:25	GCJB	11/08/23	AQ	Ground Water	MW-31D
FC11040-4	11/07/23	09:30	GCJB	11/08/23	AQ	Ground Water	MW-14D
FC11040-5	11/07/23	10:40	GCJB	11/08/23	AQ	Ground Water	MW-32DR
FC11040-6	11/07/23	10:45	GCJB	11/08/23	AQ	Ground Water	MW-21D
FC11040-7	11/07/23	11:50	GCJB	11/08/23	AQ	Ground Water	MW-25D
FC11040-8	11/07/23	11:50	GCJB	11/08/23	AQ	Ground Water	MW-3D
FC11040-9	11/07/23	13:25	GCJB	11/08/23	AQ	Ground Water	MW-26D
FC11040-10	11/07/23	15:05	GCJB	11/08/23	AQ	Ground Water	MW-22D

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FC11040

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date** 11/21/2023 9:26:08 AM

On 11/08/2023, 10 Sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC11040 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.

GC Volatiles By Method RSKSOP-147/175

Matrix: AQ **Batch ID:** GLL2992

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11034-4DUP, FC11034-4MS were used as the QC samples indicated.

FC11040-1 for Acetylene: Associated CCV outside of control limits high, sample was ND.

FC11040-2 for Acetylene: Associated CCV outside of control limits high, sample was ND.

FC11040-3 for Acetylene: Associated CCV outside of control limits high, sample was ND.

FC11040-4 for Acetylene: Associated CCV outside of control limits high, sample was ND.

FC11040-5 for Acetylene: Associated CCV outside of control limits high, sample was ND.

FC11040-6 for Acetylene: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** GLL2993

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11044-8DUP, FC11044-8MS were used as the QC samples indicated.

FC11040-10: Sample was not preserved to a pH < 2.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP43117

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11041-4DUP, FC11041-4MS, FC11041-4MSD, FC11041-4PS, FC11041-4SDL were used as the QC samples for metals.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP39356

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11034-4MS, FC11034-4MSD were used as the QC samples for Sulfate, Chloride, Nitrogen, Nitrate,

Matrix Spike Recovery(s) for Chloride, Nitrogen, Nitrate are outside control limits. Spike recovery indicates possible matrix interference.

Matrix: AQ **Batch ID:** GP39357

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11040-4MS, FC11040-4MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

Genera Chemistry By Method SM3500FE B-11

Matrix: AQ **Batch ID:** GN95878

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11040-1DUP were used as the QC samples for Iron, Ferrous.

FC11040-1 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-2 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-3 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-4 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-5 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-6 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-7 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-8 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-9 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

FC11040-10 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

Matrix: AQ **Batch ID:** R61513

FC11040-2 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61514

FC11040-3 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61515

FC11040-4 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61516

FC11040-5 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61517

FC11040-6 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61518

FC11040-7 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61519

FC11040-8 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61520

FC11040-9 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61521

FC11040-10 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

Matrix: AQ **Batch ID:** R61522

FC11040-1 for Iron, Ferric: Calculated as: (Iron) - (Iron, Ferrous)

General Chemistry By Method SM4500S2- F-11

Matrix: AQ **Batch ID:** GN95853

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC11040-1MS, FC11040-1MSD were used as the QC samples for Sulfide.

SGS North America Inc. - Orlando 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.- Orlando 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:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: FC11040
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC11040-1	**MW-30D**					
Iron		74.9 J	300	17	ug/l	SW846 6010D
Manganese		2.9 J	15	1.0	ug/l	SW846 6010D
Chloride		9.6	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.075 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		1.3	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		3.6	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-2	**MW-13D**					
Methane		0.36 J	0.50	0.16	ug/l	RSKSOP-147/175
Iron		233 J	300	17	ug/l	SW846 6010D
Manganese		5.3 J	15	1.0	ug/l	SW846 6010D
Chloride		10.7	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.23 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		1.6	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		2.3	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-3	**MW-31D**					
Methane		0.32 J	0.50	0.16	ug/l	RSKSOP-147/175
Iron		50.1 J	300	17	ug/l	SW846 6010D
Manganese		1.2 J	15	1.0	ug/l	SW846 6010D
Chloride		9.9	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.050 J	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		1.6	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		2.3	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-4	**MW-14D**					
Methane		0.24 J	0.50	0.16	ug/l	RSKSOP-147/175
Iron		678	300	17	ug/l	SW846 6010D
Manganese		39.7	15	1.0	ug/l	SW846 6010D
Chloride		5.1	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.58	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.098 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Nitrate		0.22	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		4.4	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-5	**MW-32DR**					
Methane		0.50	0.50	0.16	ug/l	RSKSOP-147/175
Iron		18.0 J	300	17	ug/l	SW846 6010D
Chloride		8.8	2.0	0.80	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FC11040
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nitrogen, Nitrate		1.0	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		2.4	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-6	**MW-21D**					
Methane		0.82	0.50	0.16	ug/l	RSKSOP-147/175
Iron		393	300	17	ug/l	SW846 6010D
Manganese		10.5 J	15	1.0	ug/l	SW846 6010D
Chloride		4.5	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.35 J	0.40	0.047	mg/l	SM3500FE B-11
Iron, Ferrous [b]		0.047 J	0.10	0.030	mg/l	SM3500FE B-11
Nitrogen, Nitrate		0.15	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		2.6	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-7	**MW-25D**					
Iron		35.5 J	300	17	ug/l	SW846 6010D
Chloride		10.1	2.0	0.80	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		1.2	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		3.2	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-8	**MW-3D**					
Methane		0.42 J	0.50	0.16	ug/l	RSKSOP-147/175
Iron		411	300	17	ug/l	SW846 6010D
Manganese		15.1	15	1.0	ug/l	SW846 6010D
Chloride		8.5	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.41	0.40	0.047	mg/l	SM3500FE B-11
Nitrogen, Nitrate		1.0	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		2.7	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-9	**MW-26D**					
Iron		29.4 J	300	17	ug/l	SW846 6010D
Chloride		10.4	2.0	0.80	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		1.3	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		3.8	2.0	0.60	mg/l	EPA 300/SW846 9056A
FC11040-10	**MW-22D**					
Methane [c]		0.40 J	0.50	0.16	ug/l	RSKSOP-147/175
Iron		63.8 J	300	17	ug/l	SW846 6010D
Manganese		2.0 J	15	1.0	ug/l	SW846 6010D
Chloride		8.3	2.0	0.80	mg/l	EPA 300/SW846 9056A
Iron, Ferric [a]		0.064 J	0.40	0.047	mg/l	SM3500FE B-11

Summary of Hits

Job Number: FC11040
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/07/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nitrogen, Nitrate		1.5	0.10	0.040	mg/l	EPA 300/SW846 9056A
Sulfate		3.7	2.0	0.60	mg/l	EPA 300/SW846 9056A

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.
(c) Sample was not preserved to a pH < 2.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-30D		
Lab Sample ID:	FC11040-1	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86381.D	1	11/16/23 14:52	SS	n/a	n/a	GLL2992
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	20 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene [a]	ND	5.0	1.5	ug/l	

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

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

Report of Analysis

Client Sample ID: MW-30D
Lab Sample ID: FC11040-1
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	74.9 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	2.9 J	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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: MW-30D
Lab Sample ID: FC11040-1
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	9.6	2.0	0.80	mg/l	1	11/08/23 20:27	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.075 J	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.3	0.10	0.040	mg/l	1	11/08/23 20:27	JB	EPA 300/SW846 9056A
Sulfate	3.6	2.0	0.60	mg/l	1	11/08/23 20:27	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.71	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	MW-13D		
Lab Sample ID:	FC11040-2	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86382.D	1	11/16/23 15:00	SS	n/a	n/a	GLL2992
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	20 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.36	0.50	0.16	ug/l	J
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene [a]	ND	5.0	1.5	ug/l	

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

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

Report of Analysis

Client Sample ID: MW-13D
Lab Sample ID: FC11040-2
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	233 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	5.3 J	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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: MW-13D
Lab Sample ID: FC11040-2
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	10.7	2.0	0.80	mg/l	1	11/08/23 20:47	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.23 J	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.6	0.10	0.040	mg/l	1	11/08/23 20:47	JB	EPA 300/SW846 9056A
Sulfate	2.3	2.0	0.60	mg/l	1	11/08/23 20:47	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.73	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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: MW-31D
Lab Sample ID: FC11040-3
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86383.D	1	11/16/23 15:07	SS	n/a	n/a	GLL2992
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	20 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.32	0.50	0.16	ug/l	J
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene [a]	ND	5.0	1.5	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-31D		
Lab Sample ID:	FC11040-3	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	50.1 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	1.2 J	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-31D		
Lab Sample ID:	FC11040-3	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	9.9	2.0	0.80	mg/l	1	11/08/23 21:08	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.050 J	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.6	0.10	0.040	mg/l	1	11/08/23 21:08	JB	EPA 300/SW846 9056A
Sulfate	2.3	2.0	0.60	mg/l	1	11/08/23 21:08	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.71	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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: MW-14D
Lab Sample ID: FC11040-4
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86384.D	1	11/16/23 15:15	SS	n/a	n/a	GLL2992
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	20 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.24	0.50	0.16	ug/l	J
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene [a]	ND	5.0	1.5	ug/l	

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

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

Report of Analysis

Client Sample ID: MW-14D
Lab Sample ID: FC11040-4
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	678	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	39.7	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-14D		
Lab Sample ID:	FC11040-4	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	5.1	2.0	0.80	mg/l	1	11/08/23 22:10	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.58	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.098 J	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	0.22	0.10	0.040	mg/l	1	11/08/23 22:10	JB	EPA 300/SW846 9056A
Sulfate	4.4	2.0	0.60	mg/l	1	11/08/23 22:10	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.73	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	MW-32DR		
Lab Sample ID:	FC11040-5	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86385.D	1	11/16/23 15:22	SS	n/a	n/a	GLL2992
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	20 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.50	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene [a]	ND	5.0	1.5	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-32DR		
Lab Sample ID:	FC11040-5	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	18.0 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	1.0 U	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-32DR		
Lab Sample ID:	FC11040-5	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	8.8	2.0	0.80	mg/l	1	11/08/23 23:52	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.0	0.10	0.040	mg/l	1	11/08/23 23:52	JB	EPA 300/SW846 9056A
Sulfate	2.4	2.0	0.60	mg/l	1	11/08/23 23:52	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.71	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	MW-21D		
Lab Sample ID:	FC11040-6	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86386.D	1	11/16/23 15:30	SS	n/a	n/a	GLL2992
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	20 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.82	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene [a]	ND	5.0	1.5	ug/l	

(a) 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-21D
Lab Sample ID: FC11040-6
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	393	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	10.5 J	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-21D		
Lab Sample ID:	FC11040-6	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	4.5	2.0	0.80	mg/l	1	11/09/23 00:13	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.35 J	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.047 J	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	0.15	0.10	0.040	mg/l	1	11/09/23 00:13	JB	EPA 300/SW846 9056A
Sulfate	2.6	2.0	0.60	mg/l	1	11/09/23 00:13	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.73	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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: MW-25D
Lab Sample ID: FC11040-7
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86398.D	1	11/17/23 10:46	SS	n/a	n/a	GLL2993
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	4.9 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene	ND	5.0	1.5	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: FC11040-7
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	35.5 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	1.0 U	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-25D		
Lab Sample ID:	FC11040-7	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	10.1	2.0	0.80	mg/l	1	11/09/23 00:33	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.2	0.10	0.040	mg/l	1	11/09/23 00:33	JB	EPA 300/SW846 9056A
Sulfate	3.2	2.0	0.60	mg/l	1	11/09/23 00:33	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.70	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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: MW-3D
Lab Sample ID: FC11040-8
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86399.D	1	11/17/23 10:53	SS	n/a	n/a	GLL2993
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.42	0.50	0.16	ug/l	J
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene	ND	5.0	1.5	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: FC11040-8
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	411	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	15.1	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-3D		
Lab Sample ID:	FC11040-8	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	8.5	2.0	0.80	mg/l	1	11/09/23 00:54	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.41	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.0	0.10	0.040	mg/l	1	11/09/23 00:54	JB	EPA 300/SW846 9056A
Sulfate	2.7	2.0	0.60	mg/l	1	11/09/23 00:54	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.73	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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: MW-26D
Lab Sample ID: FC11040-9
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/07/23
Date Received: 11/08/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL86400.D	1	11/17/23 11:00	SS	n/a	n/a	GLL2993
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene	ND	5.0	1.5	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:	FC11040-9	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	29.4 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	1.0 U	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-26D		
Lab Sample ID:	FC11040-9	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	10.4	2.0	0.80	mg/l	1	11/09/23 01:14	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.047 U	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.3	0.10	0.040	mg/l	1	11/09/23 01:14	JB	EPA 300/SW846 9056A
Sulfate	3.8	2.0	0.60	mg/l	1	11/09/23 01:14	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.71	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

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:	MW-22D		
Lab Sample ID:	FC11040-10	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
Method:	RSKSOP-147/175	**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]	LL86401.D	1	11/17/23 11:07	SS	n/a	n/a	GLL2993
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.40	0.50	0.16	ug/l	J
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene	ND	5.0	1.5	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-22D		
Lab Sample ID:	FC11040-10	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	63.8 J	300	17	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	2.0 J	15	1.0	ug/l	1	11/09/23	11/10/23	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19827
(2) Prep QC Batch: MP43117

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:	MW-22D		
Lab Sample ID:	FC11040-10	**Date Sampled:**	11/07/23
Matrix:	AQ - Ground Water	**Date Received:**	11/08/23
		Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	8.3	2.0	0.80	mg/l	1	11/09/23 01:35	JB	EPA 300/SW846 9056A
Iron, Ferric [a]	0.064 J	0.40	0.047	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Iron, Ferrous [b]	0.030 U	0.10	0.030	mg/l	1	11/12/23 15:21	FN	SM3500FE B-11
Nitrogen, Nitrate	1.5	0.10	0.040	mg/l	1	11/09/23 01:35	JB	EPA 300/SW846 9056A
Sulfate	3.7	2.0	0.60	mg/l	1	11/09/23 01:35	JB	EPA 300/SW846 9056A
Sulfide	0.20 U	0.73	0.20	mg/l	1	11/09/23 10:00	CC	SM4500S2- F-11

(a) Calculated as: (Iron) - (Iron, Ferrous)
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

FC11040

SGS - ORLANDO JOB # :

PAGE 1 OF 1

SGS - ORLANDO Quote #

SKIFF #

Client / Reporting Information

Company Name: AECOM
Address: 10 Patewood Dr. Bldg VI Ste 500
City: Greenville State: SC Zip: 29615
Project Contact: Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Justin Bitter Sampler 2: Griffin Collings

Project Information

Project Name: Delaven Spray Technologies
Street 4334 Main Hwy
City Bamberg State SC
Project #
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VRSM1407DMEE(VOC+ACENT)	SO4, FE2, NO2, CHL, FE3	5	M2	LAB USE ONLY
1	MW-30D	11/7/23	0815	GC	GW	10		3	3		1		3			X	X	X	X	
2	MW-13D	11/7/23	0820	JB	GW	10		3	3		1		3			X	X	X	X	
3	MW-31D	11/7/23	0925	GC	GW	10		3	3		1		3			X	X	X	X	
4	MW-14D	11/7/23	0930	JB	GW	10		3	3		1		3			X	X	X	X	
5	MW-32DR	11/7/23	1040	GC	GW	10		3	3		1		3			X	X	X	X	
6	MW-21D	11/7/23	1045	JB	GW	10		3	3		1		3			X	X	X	X	
7	MW-25D	11/7/23	1150	GC	GW	10		3	3		1		3			X	X	X	X	
8	MW-3D	11/7/23	1150	JB	GW	10		3	3		1		3			X	X	X	X	
9	MW-26D	11/7/23	1325	GC	GW	10		3	3		1		3			X	X	X	X	
10	MW-22D	11/7/23	1505	GC	GW	10		3	3		1		3			X	X	X	X	

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- COMMERCIAL "A" (RESULTS ONLY)
- COMMERCIAL "B" (RESULTS PLUS QC)
- REDT1 (EPA LEVEL 3)
- FULLT1 (EPA LEVEL 4)
- EDD'S

Comments / Remarks

INITIAL ASSESSMENT 10

LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 AECOM	11/7/23 1900	2 945 11/8/23	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.4 IR #1 2.0

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

http://www.sgs.com/en/terms-and-conditions

5.1 5

FC11040: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: fc11040 **Client:** AECOM **Project:** DELAVON SPRAY TECHNOLOGIES

Date / Time Received: 11/8/2023 9:45:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 786077987930

Cooler Temps (Raw Measured) °C: Cooler 1: (1.4); Cooler 2: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.8); Cooler 2: (2.4);

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 presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd 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 Lab Filtered Metals:

Test Strip Lot #s: pH 0-3: 226422 pH 10-12: Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #

Comments

SM001
Rev. Date 05/04/17

Technician: SHAYLAP Date: 11/8/2023 12:21:04 PM Reviewer: Date:

FC11040: Chain of Custody
Page 2 of 2

GC 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: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL2992-MB	LL86358.D	1	11/16/23	SS	n/a	n/a	GLL2992

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene	ND	5.0	1.5	ug/l	

Method Blank Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL2993-MB	LL86395.D	1	11/17/23	SS	n/a	n/a	GLL2993

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-7, FC11040-8, FC11040-9, FC11040-10

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	
74-86-2	Acetylene	ND	5.0	1.5	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL2992-BS	LL86355.D	1	11/16/23	SS	n/a	n/a	GLL2992
GLL2992-BSD	LL86356.D	1	11/16/23	SS	n/a	n/a	GLL2992

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	127	118	125	116	2	62-139/30
74-84-0	Ethane	219	256	117	250	114	2	67-141/30
74-85-1	Ethene	290	343	118	339	117	1	68-141/30
74-86-2	Acetylene	260	300	115	305	117	2	56-137/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL2993-BS	LL86392.D	1	11/17/23	SS	n/a	n/a	GLL2993
GLL2993-BSD	LL86393.D	1	11/17/23	SS	n/a	n/a	GLL2993

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-7, FC11040-8, FC11040-9, FC11040-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	114	106	122	113	7	62-139/30
74-84-0	Ethane	219	225	103	244	111	8	67-141/30
74-85-1	Ethene	290	294	101	327	113	11	68-141/30
74-86-2	Acetylene	260	229	88	284	109	21	56-137/30

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11034-4MS [a]	LL86364.D	10	11/16/23	SS	n/a	n/a	GLL2992
FC11034-4 [a]	LL86362.D	10	11/16/23	SS	n/a	n/a	GLL2992

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6

CAS No.	Compound	FC11034-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	8530		1080	9200	62	62-139
74-84-0	Ethane	10 U		2190	2500	114	67-141
74-85-1	Ethene	10 U		2900	3370	116	68-141
74-86-2	Acetylene	50 U		2600	3010	116	56-137

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

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11044-8MS	LL86417.D	1	11/17/23	SS	n/a	n/a	GLL2993
FC11044-8	LL86413.D	1	11/17/23	SS	n/a	n/a	GLL2993

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-7, FC11040-8, FC11040-9, FC11040-10

CAS No.	Compound	FC11044-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.50 U		108	121	112	62-139
74-84-0	Ethane	1.0 U		219	244	111	67-141
74-85-1	Ethene	1.0 U		290	326	112	68-141
74-86-2	Acetylene	5.0 U		260	283	109	56-137

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11034-4DUP [a]	LL86363.D	10	11/16/23	SS	n/a	n/a	GLL2992
FC11034-4 [a]	LL86362.D	10	11/16/23	SS	n/a	n/a	GLL2992

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6

CAS No.	Compound	FC11034-4 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	8530		9030		6	30
74-84-0	Ethane	10 U		ND		nc	30
74-85-1	Ethene	10 U		ND		nc	30
74-86-2	Acetylene	50 U		ND		nc	30

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

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC11040
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC11044-8DUP	LL86416.D	1	11/17/23	SS	n/a	n/a	GLL2993
FC11044-8	LL86413.D	1	11/17/23	SS	n/a	n/a	GLL2993

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC11040-7, FC11040-8, FC11040-9, FC11040-10

CAS No.	Compound	FC11044-8 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	0.50 U		ND		nc	30
74-84-0	Ethane	1.0 U		ND		nc	30
74-85-1	Ethene	1.0 U		ND		nc	30
74-86-2	Acetylene	5.0 U		ND		nc	30

* = 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: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP43117
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/09/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	.5	1		
Beryllium	4.0	.1	.2		
Boron	100	5	10		
Cadmium	5.0	.1	.2		
Calcium	1000	50	50		
Chromium	10	.5	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	15	17	13.3	<300
Lead	5.0	1	1.1		
Lithium	10	.5	1.3		
Magnesium	5000	35	35		
Manganese	15	.25	1	0.10	<15
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	100	200		
Selenium	10	2	2.9		
Silver	10	.5	.7		
Sodium	10000	250	500		
Strontium	10	.25	.5		
Thallium	10	1	1.4		
Tin	50	.5	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP43117: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10

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: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP43117
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/09/23 11/09/23

Metal	FC11041-4 Original	DUP	RPD	QC Limits	FC11041-4 Original	MS	Spikelot MPFLICP5	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	3360	3310	1.5	0-20	3360	48300	46000	97.7	80-120
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	67.4	65.8	2.4	0-20	67.4	251	200	91.8	80-120
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP43117: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10

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: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP43117 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/09/23

Metal	FC11041-4 Original	MSD	Spikelot MPFLICP5	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	3360	48900	46000	99.0	1.2	20
Lead	anr					
Lithium						
Magnesium	anr					
Manganese	67.4	251	200	91.8	0.0	20
Molybdenum	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin	anr					
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP43117: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10

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: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP43117
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/09/23

Metal	BSP Result	Spikelot MPFLICP5	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	44500	46000	96.7	80-120
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	193	200	96.5	80-120
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP43117: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP43117
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/09/23

Metal	FC11041-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	3360	3310	1.3	0-10
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	67.4	66.1	1.9	0-10
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP43117: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP43117 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/09/23

Metal	Sample ml	Final ml	FC11041-4 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	3355	3287.9	6436	0.2	150	3000	104.9	80-120
Lead										
Lithium										
Magnesium										
Manganese	9.8	10	67.4	66.052	114	0.2	2.5	50	95.9	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP43117: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10

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

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP39356/GN95855	0.50	0.0	mg/l	10	10.1	101.0	90-110%
Chloride	GP39356/GN95855	2.0	0.0	mg/l	50	51.8	103.6	90-110%
Chloride	GP39357/GN95855	2.0	0.0	mg/l	50	52.1	104.2	90-110%
Fluoride	GP39356/GN95855	0.20	0.0	mg/l	2.5	2.49	99.6	90-110%
Iron, Ferrous	GN95878	0.10	0.0	mg/l	0.500	0.51	101.0	82-115%
Nitrogen, Nitrate	GP39356/GN95855	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrate	GP39357/GN95855	0.10	0.0	mg/l	2.5	2.47	98.8	90-110%
Nitrogen, Nitrite	GP39356/GN95855	0.10	0.0	mg/l	2.5	2.62	104.8	90-110%
Nitrogen, Nitrite	GP39357/GN95855	0.10	0.0	mg/l	2.5	2.64	105.6	90-110%
Sulfate	GP39356/GN95855	2.0	0.0	mg/l	50	49.1	98.2	90-110%
Sulfate	GP39357/GN95855	2.0	0.0	mg/l	50	48.9	97.8	90-110%
Sulfide	GN95853	1.0	0.0	mg/l	12.30	12.3	100.0	85-115%

Associated Samples:
Batch GN95853: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
Batch GN95878: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
Batch GP39356: FC11040-1, FC11040-2, FC11040-3
Batch GP39357: FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Iron, Ferrous	GN95878	FC11040-1	mg/l	0.030 U	0.0	0.0	0-31%

Associated Samples:
Batch GN95878: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP39356/GN95855	FC11034-4	mg/l	1.2 U	10	9.1	91.0	90-110%
Chloride	GP39356/GN95855	FC11034-4	mg/l	23.2	50	66.3	86.2N(a)	90-110%
Chloride	GP39357/GN95855	FC11040-4	mg/l	5.1	50	54.7	99.2	90-110%
Fluoride	GP39356/GN95855	FC11034-4	mg/l	1.4	2.5	3.2	72.0N(a)	90-110%
Nitrogen, Nitrate	GP39356/GN95855	FC11034-4	mg/l	0.40 U	2.5	2.2	88.0N(a)	90-110%
Nitrogen, Nitrate	GP39357/GN95855	FC11040-4	mg/l	0.22	2.5	2.6	95.2	90-110%
Nitrogen, Nitrite	GP39356/GN95855	FC11034-4	mg/l	0.40 U	2.5	2.1	84.0N(a)	90-110%
Nitrogen, Nitrite	GP39357/GN95855	FC11040-4	mg/l	0.040 U	2.5	2.4	96.0	90-110%
Sulfate	GP39356/GN95855	FC11034-4	mg/l	6.0 U	50	45.0	90.0	90-110%
Sulfate	GP39357/GN95855	FC11040-4	mg/l	4.4	50	51.7	94.6	90-110%
Sulfide	GN95853	FC11040-1	mg/l	0.20 U	8.95	9.1	101.6	85-115%

Associated Samples:
Batch GN95853: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
Batch GP39356: FC11040-1, FC11040-2, FC11040-3
Batch GP39357: FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.

8.3

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC11040
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP39356/GN95855	FC11034-4	mg/l	1.2 U	10	9.0	1.1	15%
Chloride	GP39356/GN95855	FC11034-4	mg/l	23.2	50	65.3	1.5	15%
Chloride	GP39357/GN95855	FC11040-4	mg/l	5.1	50	54.7	0.0	15%
Fluoride	GP39356/GN95855	FC11034-4	mg/l	1.4	2.5	3.1	3.2	15%
Nitrogen, Nitrate	GP39356/GN95855	FC11034-4	mg/l	0.40 U	2.5	2.2	0.0	15%
Nitrogen, Nitrate	GP39357/GN95855	FC11040-4	mg/l	0.22	2.5	2.6	0.0	15%
Nitrogen, Nitrite	GP39356/GN95855	FC11034-4	mg/l	0.40 U	2.5	2.1	0.0	15%
Nitrogen, Nitrite	GP39357/GN95855	FC11040-4	mg/l	0.040 U	2.5	2.4	0.0	15%
Sulfate	GP39356/GN95855	FC11034-4	mg/l	6.0 U	50	44.3	1.6	15%
Sulfate	GP39357/GN95855	FC11040-4	mg/l	4.4	50	51.7	0.0	15%
Sulfide	GN95853	FC11040-1	mg/l	0.20 U	8.95	9.1	0.0	20%

Associated Samples:
Batch GN95853: FC11040-1, FC11040-2, FC11040-3, FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
Batch GP39356: FC11040-1, FC11040-2, FC11040-3
Batch GP39357: FC11040-4, FC11040-5, FC11040-6, FC11040-7, FC11040-8, FC11040-9, FC11040-10
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

DATA ASSESSMENT REPORT

Data assessment is a systematic process for reviewing a body of data against a predefined set of criteria to provide assurance that the data meet project Data Quality Objective (DQO) requirements. The purpose of the data assessment process is to determine if and how the usability of the analytical data is affected by the overall analytical processes and sample collection and handling procedures. If specific DQOs are not met, the data are qualified (i.e., data flags are assigned to sample results) in accordance with guidelines established by the United States Environmental Protection Agency (USEPA). Data assessment allows the data user to adequately determine if the data can be used for its intended purpose. The data acceptance criteria are established according to Standard Operating Procedures (SOPs) and Statements of Work (SOWs) provided to the contracted analytical laboratory. The assessment of data quality and usability involves five components, as described below.

1) **Field Sampling Check** is a process to ensure that all samples were collected, and the laboratory analyses were performed as stipulated in the applicable site-specific Work Plan or Field Sampling Plan (FSP). Inspection of sample preservation procedures, sample handling, analysis requested, sample description and identification (ID), cooler receipt forms, holding time evaluation, and Chain of Custody procedures are all evaluated to ensure that the evidentiary nature of the samples and the resulting analytical data have not been compromised.

2) **Data Verification** is a process for determining the completeness, correctness, consistency, and compliance of a data package in accordance with requirements contained in the applicable SOW and/or contract-specific requirements. This is a review of the data package, electronic data deliverable (EDD), and invoice received from the contract laboratory to ensure that the contract required information is present and complete prior to data validation.

3) **Data Review** is a process of reviewing the primary quality control (QC) data provided by the laboratory and the results of any internal quality assurance (QA)/QC samples, such as field blanks, trip blanks, equipment blanks or ambient blanks, field split samples, and duplicate samples, to ascertain any effect the laboratory's procedures or the sample collection process has on the data.

4) **Data Evaluation** is a process to determine if the data meet project-specific DQOs and contract requirements. This evaluation may involve a review of field sampling and sample management procedures, laboratory audits, Performance Evaluation (PE) sample results, and any other data quality indicators that are available.

5) **Data Validation** is a process to determine the accuracy and precision of analytical data generated and to identify any anomalies encountered. The validation process is performed in accordance with USEPA regional or national functional guidelines, project-specific guidelines, and

compliance with the requirements of each analytical method. Two major components of data validation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance for each analytical method to determine if the samples were analyzed within the prescribed acceptance criteria of the method. Evaluation of matrix interferences involves the analysis of surrogate spike recoveries, matrix spike recoveries, and duplicate sample results. Data not meeting project-specific DQOs or the requirements of the analytical method are qualified with data flags according to referenced guidelines.

Data Assessment Procedures

AECOM performed independent QC checks of field and laboratory procedures that were used in collecting and analyzing the data. The QC checks verify that the data collected are of appropriate quality for the intended data use and that the DQOs were met. The steps and guidelines followed during the data validation process were modeled on the *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, November 2020). 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 FC11040 were collected on November 7, 2023 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 Metals by Method 6010D

Results of the validation process indicate the data analyzed for this method are acceptable for their intended use and no data flags are required.

Sulfide Metals by Method SM4500s2-F-11

Results of the validation process indicate the data analyzed for this method are acceptable for their intended use and no data flags are required.

Dissolved Gases by Method RSK-175

Results of the validation process indicate the data analyzed for this method are acceptable for their intended use and no data flags are required.

Anions by Method 9056A

Results of the validation process indicate the data analyzed for this method are acceptable for their intended use and no data flags are required.

Ferric and Ferrous Iron by Method SM3500Fe B-11

Results of the validation process indicate 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), November 2020. *USEPA National Functional Guidelines for Organic Superfund Methods Data Review.* Publication #EPA-542-R-20-006.

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-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
MCL			200	NS	7	5	80	NS	80	70	80	5	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
MW-1	4/14/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3	<0.28	<2	**83.5**	2.3 /B/T	<0.22	**6.1**	<0.41	<0.72
MW-1	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3	<0.28	<2	**58**	<0.3	<0.22	2	<0.41	<0.72
MW-1	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.7 J	<0.28	<2	**27.3**	0.73 J/B/T	<0.22	1.3	<0.41	<0.72
MW-1	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.8	<0.28	<2	**57.6**	<0.3	<0.22	3.6	<0.41	<0.72
MW-2	6/4/2003	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-2	12/30/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	4.5	<2	<2	<2	<2	<4
MW-2	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	4.3	NA	<1.00	<1.00	<1.00	NA
MW-2	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.21	NA	<1.00	<1.00	<1.00	NA
MW-2	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.5	NA	<1.00	<1.00	<1.00	NA
MW-2	11/5/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.17	NA	<1.00	<1.00	<1.00	NA
MW-2	4/30/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.27	NA	<1.00	<1.00	<1.00	NA
MW-2	10/25/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1	NA	<1.00	<1.00	<1.00	NA
MW-2	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-2	11/9/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.86	NA	<1.00	<1.00	<1.00	NA
MW-2	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**6.55**	NA	<1.00	<1.00	<1.00	NA
MW-2	2/25/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.6	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	10/27/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.53 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	10/28/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.85 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	4/13/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.57	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	10/25/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.83 J	<0.2	<0.33	<0.27	<0.31	<0.56

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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
MW-2	4/13/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.67 J	2.6 /B/T	<0.22	<0.35	<0.41	<0.72
MW-2	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.59 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-2	4/25/2023	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-2	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-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-3	4/13/2022	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	2.3	<0.55	<4	**99.3**	1.2 J/B/T	<0.44	2.7	<0.82	<1.4
MW-3	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**58.9**	<0.3	<0.22	1.6	<0.41	<0.72
MW-3	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.5	<0.28	<2	**63.5**	2.6 /B/T	<0.22	1.4	<0.41	<0.72
MW-3	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.1	<0.28	<2	**85.7**	<0.3	<0.22	2.5	<0.41	<0.72
MW-3D	1/9/2008	µg/L	<1.00	<1.00	**9.68**	NA	NA	NA	NA	5.52	NA	<1.00	**432**	NA	<1.00	3.33	<1.00	NA
MW-3D	11/5/2009	µg/L	<1.00	<1.00	**11.8**	NA	NA	NA	NA	8.92	NA	<1.00	**612**	NA	<1.00	4.11	<1.00	NA
MW-3D	4/30/2010	µg/L	<1.00	<1.00	**9.92**	NA	NA	NA	NA	9.33	NA	<1.00	**764**	NA	<1.00	**6.1**	<1.00	NA
MW-3D	10/26/2010	µg/L	<1.00	<1.00	**11.7**	NA	NA	NA	NA	9.98	NA	<1.00	**544**	NA	<1.00	4.51	<1.00	NA
MW-3D	5/24/2011	µg/L	<1.0	<1.0	**11**	NA	NA	NA	NA	9.4	NA	<1.0	**600**	<1.0	<1.0	4.7	<2.0	<10
MW-3D	11/9/2011	µg/L	<1.00	<1.00	**10.8**	NA	NA	NA	NA	9.93	NA	<1.00	**526**	NA	<1.00	4.01	<1.00	NA
MW-3D	5/9/2012	µg/L	<1.00	<1.00	**10.3**	NA	NA	NA	NA	8.58	NA	<1.00	**520**	NA	<1.00	4.48	<1.00	NA
MW-3D	3/5/2014	µg/L	<0.34	<0.26	**10.4**	<0.24	<0.26	<0.2	<0.31	7	<0.36	<2	**204**	<0.2	<0.34	**6**	<0.33	<0.66
MW-3D	10/28/2014	µg/L	0.58 J	<0.26	**16.2**	<0.24	<0.26	<0.2	<0.31	5.9	<0.36	<2	**384**	<0.2	<0.34	4.2	<0.33	<0.66
MW-3D	4/21/2015	µg/L	<0.26	<0.2	**12.4**	<0.2	<0.22	<0.29	<0.3	8.4	<0.2	<2	**316 /M/M**	<0.4	<0.21	**8.1**	<0.25	<0.51
MW-3D	10/27/2015	µg/L	<1.3	<1	**9.7**	<1	<1.1	<1.5	<1.5	5.6	<1	<10	**353**	<2	<1	**6.7**	<1.3	<2.6
MW-3D	4/13/2016	µg/L	<1	<1.3	**5.7**	<1.4	<1.2	<1.2	<1.5	7.8	<1.3	<10	**285**	<1	<1.7	**8.3**	<1.6	<2.8
MW-3D	10/26/2016	µg/L	0.25 J	<0.26	**8.8**	<0.28	<0.24	<0.23	<0.3	8.3	<0.26	<2	**331**	<0.2	<0.33	**7.6**	<0.31	<0.56

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-3D	4/13/2022	µg/L	<1.2	<1.7	4.2 J	<1.6	<1.2	<2.7	<1.5	7.6	<1.4	<10	**277**	<1.5	<1.1	**8.8**	<2	<3.6
MW-3D	10/26/2022	µg/L	<1.2	<1.7	4.7 J	<1.6	<1.2	<2.7	<1.5	8.7	<1.4	<10	**282**	<1.5	<1.1	**5.2**	<2	<3.6
MW-3D	4/25/2023	µg/L	<0.62	<0.85	3.8	<0.78	<0.61	<1.3	<0.75	12.8	<0.69	<5	**234**	1.6 J/B/T	<0.55	**10.4**	**9**	<1.8
MW-3D	11/8/2023	ug/l	<0.25	<0.34	5.7	<0.31	<0.24	<0.53	<0.3	9.8	<0.28	<2	**261**	<0.3	<0.22	**8.1**	<0.41	<0.72
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
MW-3D1	10/26/2022	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	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-4	10/26/2022	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-5	10/26/2022	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	11/8/2023	ug/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
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
MW-6	10/26/2022	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	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-7	10/26/2022	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	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.34 J/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
MW-8	4/13/2022	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	7.6	<1.4	<10	**267**	<1.5	<1.1	**46.2**	<2	<3.6
MW-8	10/26/2022	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	14.5	<0.55	<4	**535**	<0.6	<0.44	**87.3**	<0.82	<1.4
MW-8	4/25/2023	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	7	<0.55	<4	**195**	<0.6	<0.44	**40.6**	<0.82	<1.4
MW-8	11/8/2023	ug/l	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	11	<0.55	**5.3 JB/B/L**	**184**	<0.6	<0.44	**57**	<0.82	<1.4
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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-9	4/13/2022	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	**5.1 J**	**44.9**	0.71 J/B/T	<0.44	**6.6**	<0.82	<1.4
MW-9	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	4.8	<0.28	<2	**74.3**	<0.3	<0.22	**28.8**	<0.41	<0.72
MW-9	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.6	<0.28	<2	**75.2**	2.8 /B/T	<0.22	**22.4**	<0.41	<0.72
MW-9	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.4	<0.28	<2	**59.5**	<0.3	<0.22	**10.6**	<0.41	<0.72
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
MW-9D	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.59 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-10/MWT-2	12/31/2003	µg/L	<200	<200	**520**	NA	NA	NA	NA	<200	NA	<200	**5800**	<200	<200	<200	<200	<400
MW-10/MWT-2	3/14/2005	µg/L	26.4	<1.00	**18.6**	NA	NA	NA	NA	40.1	NA	<1.00	**4360**	NA	1	**62.3**	<1.00	NA
MW-10/MWT-2	6/1/2005	µg/L	12.7	1.7	**17.5**	NA	NA	NA	NA	40.8	NA	<1.00	**5680**	NA	<1.00	**52**	<1.00	NA
MW-10/MWT-2	9/20/2005	µg/L	9.03	<1.00	**40**	NA	NA	NA	NA	27.8	NA	<1.00	**4360**	NA	<1.00	**46.2**	<1.00	NA
MW-10/MWT-2	12/12/2005	µg/L	11.7	<1.00	**14.4**	NA	NA	NA	NA	23.2	NA	<1.00	**3050**	NA	<1.00	**45.2**	<1.00	NA
MW-10/MWT-2	3/28/2006	µg/L	6.1	<1.00	**13.4**	NA	NA	NA	NA	16.8	NA	<1.00	**3090**	NA	<1.00	**27.4**	<1.00	NA
MW-10/MWT-2	6/26/2006	µg/L	<20	<20	<20	NA	NA	NA	NA	21	NA	<20	**1800**	NA	<20	**31**	<20	NA
MW-10/MWT-2	10/21/2006	µg/L	<100	<100	<100	NA	NA	NA	NA	**121**	NA	<100	**3380**	NA	<100	<100	**114**	NA
MW-10/MWT-2	1/12/2007	µg/L	1.22	<1.00	2.08	NA	NA	NA	NA	12.4	NA	<1.00	**2980**	NA	<1.00	**32.7**	<1.00	NA
MW-10/MWT-2	1/9/2008	µg/L	10.9	<1.00	**24.1**	NA	NA	NA	NA	**89.1**	NA	<1.00	**3250**	NA	<1.00	**71.9**	<1.00	NA
MW-10/MWT-2	11/4/2009	µg/L	1.49	1.56	**82.2**	NA	NA	NA	NA	**1120**	NA	<1.00	**1600**	NA	1.22	**33.9**	<1.00	NA
MW-10/MWT-2	4/29/2010	µg/L	<1.00	<1.00	2.85	NA	NA	NA	NA	**104**	NA	<1.00	**53.8**	NA	<1.00	3.22	<1.00	NA
MW-10/MWT-2	10/25/2010	µg/L	<10.0	<10.0	**108**	NA	NA	NA	NA	**1270**	NA	<10.0	**1150**	NA	<10.0	**129**	<10.0	NA
MW-10/MWT-2	5/24/2011	µg/L	<20	<20	<20	NA	NA	NA	NA	**390**	NA	<20	**2000**	<20	<20	**88**	<40.0	<200
MW-10/MWT-2	11/9/2011	µg/L	<5.00	8.8	**285**	NA	NA	NA	NA	**4250**	NA	<5.00	**4670**	NA	<5.00	**154**	<5.00	NA
MW-10/MWT-2	5/8/2012	µg/L	3.7	<1.00	**7.83**	NA	NA	NA	NA	**885**	NA	<1.00	**1810**	NA	17.1	**386**	<1.00	NA
MW-10	3/5/2014	µg/L	<0.34	<0.26	0.36 J	<0.24	<0.26	<0.2	<0.31	13.9	<0.36	<2	**93.2**	<0.2	<0.34	**15.1**	<0.33	<0.66
MW-10	10/29/2014	µg/L	<0.34	0.37 J	**32.7**	<0.24	<0.26	<0.2	<0.31	**664**	<0.36	<2	**136**	2.6	0.51 J	**36.9**	<0.33	<0.66
MW-10	4/22/2015	µg/L	<0.26	<0.2	5.2	<0.2	<0.22	<0.29	<0.3	**98.8**	<0.2	<2	**54.1**	<0.4	<0.21	**7.8**	<0.25	<0.51
MW-10	10/26/2015	µg/L	<0.26	0.49 J	**30.3**	0.22 J	<0.22	<0.29	<0.3	**506**	<0.2	<2	**66.4**	1.1	0.25 J	**45.2**	0.5 J	<0.51

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-10	4/13/2022	µg/L	<2.5	<3.4	<3.2	<3.1	<2.4	<5.3	<3	15.1	<2.8	**22.8 J**	**180**	<3	<2.2	**40.7**	<4.1	<7.2
MW-10	10/26/2022	µg/L	<12	<17	**120**	<16	<12	<27	<15	**2830**	<14	**122 J**	**181**	<15	<11	**131**	<20	<36
MW-10	4/25/2023	µg/L	<0.5	<0.68	6.8	<0.62	<0.48	<1.1	<0.6	**101**	<0.55	<4	**127**	2.4 /B/T	<0.44	**27.2**	<0.82	<1.4
MW-10	11/8/2023	ug/l	<2.5	<3.4	**27**	<3.1	<2.4	<5.3	<3	**405**	<2.8	**23.5 J**	**327**	<3	<2.2	**63.2**	<4.1	<7.2
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
MW-10D	4/13/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	2.4 /B/T	<0.22	<0.35	<0.41	<0.72
MW-10D	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.73 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-10D	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.29 J	3.2 /B/T	<0.22	<0.35	<0.41	<0.72
MW-10D	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.41 J	0.36 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-11/MWT-3	12/31/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-11/MWT-3	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11/MWT-3	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11/MWT-3	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11/MWT-3	11/4/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11/MWT-3	4/29/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11/MWT-3	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-11/MWT-3	11/9/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11/MWT-3	5/8/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11	3/11/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-11	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-11	10/26/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	4.2	<0.21	<0.22	<0.25	<0.51
MW-11	10/25/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	1	<0.33	<0.27	<0.31	<0.56
MW-11	10/16/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-11	10/30/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-11	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-11	10/21/2020	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	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.34 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-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-12D	4/13/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**26.2**	0.66 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-12D	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**25.9**	0.4 J	<0.22	<0.35	<0.41	<0.72
MW-12D	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**17.8**	2.7 /B/T	<0.22	<0.35	<0.41	<0.72
MW-12D	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**17.5**	<0.3	<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
MW-13D	4/13/2022	µg/L	<0.5	<0.68	1.8 J	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**98.4**	0.97 J/B/T	<0.44	<0.69	<0.82	<1.4
MW-13D	10/26/2022	µg/L	<0.25	<0.34	1.8	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**86.9**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	4/25/2023	µg/L	<0.25	<0.34	1.8	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**105**	2.7 /B/T	<0.22	<0.35	<0.41	<0.72
MW-13D	11/8/2023	ug/l	0.29 J	<0.34	2.1	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**70.6**	<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-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	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-14	10/27/2022	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	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-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-14D	4/13/2022	µg/L	<0.25	<0.34	0.85 J	<0.31	<0.24	<0.53	<0.3	0.46 J	<0.28	<2	**50.5**	<0.3	<0.22	0.57 J	<0.41	<0.72
MW-14D	10/27/2022	µg/L	<0.25	<0.34	0.93 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**68.2**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14D	4/25/2023	µg/L	<0.25	<0.34	0.34 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**29.2**	2 /B/T	<0.22	<0.35	<0.41	<0.72
MW-14D	11/8/2023	ug/l	<0.25	<0.34	0.4 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**35.5**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	5/25/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15	6/28/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15	11/8/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	5/8/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	2/25/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	10/29/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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
MW-15	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.9 J	<0.22	<0.35	<0.41	<0.72
MW-15D	5/25/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15D	6/28/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15D	11/8/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	5/8/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	2/25/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	0.24 J	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	10/29/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	4/22/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	10/26/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	4/11/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	10/25/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	4/11/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/16/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/29/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/14/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/19/2020	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	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.8 J	<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-15D1	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.66 J	<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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-16	10/26/2022	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	5/25/2011	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
MW-16D	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.1	<0.22	<0.35	<0.41	<0.72
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-17	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.7	<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-18	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.89 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-18	11/8/2023	ug/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
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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-19	4/14/2022	µg/L	<250	<340	<320	<310	<240	<530	<300	<280	<280	**2680 J**	**52400**	<300	<220	<350	<410	<720
MW-19	11/15/2022	µg/L	<250	<340	<320	<310	<240	<530	<300	<280	<280	**4750 J**	**18900**	<300	<220	<350	<410	<720
MW-19	4/25/2023	µg/L	111	<34	**63.2 J**	<31	<24	<53	<30	<28	<28	<200	**39100**	<30	<22	<35	<41	<72
MW-19	11/8/2023	ug/l	<120	<170	<160	<160	<120	<270	<150	<140	<140	**1240 J**	**27900**	<150	<110	<170	<200	<360
MW-20	3/6/2014	µg/L	<3.4	<2.6	<2.5	<2.4	<2.6	<2	<3.1	4 J	<3.6	<20	**648**	<2	<3.4	**5 J**	<3.3	<6.6
MW-20	10/28/2014	µg/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	<1.6	<1.8	<10	**428**	<1	<1.7	2.7 J	<1.6	<3.3
MW-20	4/21/2015	µg/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	2.6 J	<1	<10	**452**	<2	<1	4.2 J	<1.3	<2.6
MW-20	10/28/2015	µg/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	<1.1	<1	**11.1 J**	**623**	<2	<1	4.6 J	<1.3	<2.6
MW-20	4/12/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.72	<0.26	<2	**480**	<0.2	<0.33	3.2	<0.31	<0.56
MW-20	10/24/2016	µg/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	<3.1	<2.6	<20	**503**	<2	<3.3	<2.7	<3.1	<5.6
MW-20	4/11/2017	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	1.5 J	<1.4	<10	**438**	<1.5	<1.1	3.1 J	<2	<3.6
MW-20	10/18/2017	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	4.8 J	<1.4	<1.4	<10	**312**	<1.5	<1.1	2.2 J	<2	<3.6
MW-20	5/9/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	3.3 J	<1.4	<10	**388**	<1.5	<1.1	3.9 J	<2	<3.6
MW-20	11/1/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.2	<0.28	<2	**462**	<0.3	<0.22	3.7	<0.41	<0.72
MW-20	4/22/2019	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	<1.4	<1.4	<10	**466**	<1.5	<1.1	3.6	<2	<3.6
MW-20	10/16/2019	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**194**	<0.75	<0.55	1.9 J	<1	<1.8
MW-20	10/20/2020	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-20	4/14/2022	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	2.2 J	<0.69	**10.8 J**	**190**	2.1 J/B/T	<0.55	3.5	<1	<1.8
MW-20	11/15/2022	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	**12.9 J**	<0.54	<0.75	<0.55	<0.86	<1	<1.8
MW-20	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.7	<0.28	<2	**69**	2.6 /B/T	<0.22	2.7	<0.41	<0.72
MW-20	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.85 J	<0.28	<2	**64.7**	0.89 J/B/T	<0.22	1.3	<0.41	<0.72
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
MW-21	4/14/2022	µg/L	<50	<68	<64	<62	<48	<110	<60	**791**	<55	**409 J**	**10300**	<60	<44	**296**	**300**	<140
MW-21	10/26/2022	µg/L	<50	<68	<64	<62	<48	<110	<60	**666**	<55	<400	**8320**	<60	<44	**254**	<82	<140
MW-21	4/25/2023	µg/L	<50	<68	<64	<62	<48	<110	<60	**594**	<55	<400	**11800**	<60	<44	**306**	<82	<140
MW-21	11/8/2023	ug/l	<50	<68	<64	<62	<48	<110	<60	**600**	<55	**430 JB**	**8950**	<60	<44	**256**	<82	<140

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	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-21D	4/13/2022	µg/L	<0.5	<0.68	2	<0.62	<0.48	<1.1	<0.6	1.3 J	<0.55	**5.1 J**	**59.9**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-21D	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.81 J	0.71 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-21D	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.3	1.5 /B/T	<0.22	<0.35	<0.41	<0.72
MW-21D	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.4	<0.3	<0.22	<0.35	<0.41	<0.72
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-22D	4/13/2022	µg/L	<0.25	<0.34	1.4	<0.31	<0.24	<0.53	<0.3	0.46 J	<0.28	<2	**81.8**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-22D	10/27/2022	µg/L	<0.25	<0.34	1.4	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**92.9**	<0.3	<0.22	0.39 J	<0.41	<0.72
MW-22D	11/8/2023	ug/l	<0.25	<0.34	1.5	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**79.3**	0.47 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-23D	10/27/2022	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-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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
MW-24	4/14/2022	µg/L	<6.2	<8.5	<8.1	<7.8	<6.1	<13	<7.5	9.1 J	<6.9	**59.3 J**	**1670**	<7.5	<5.5	<8.6	<10	<18
MW-24	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	9.1	<0.28	<2	**1170**	<0.3	<0.22	2.8	<0.41	<0.72
MW-24	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.8	<0.28	<2	**906**	2.6 /B/T	<0.22	1.5	<0.41	<0.72
MW-24	11/8/2023	ug/l	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	9.3 J	<5.5	<40	**1150**	<6	<4.4	<6.9	<8.2	<14
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-25D	4/13/2022	µg/L	<0.5	<0.68	1.7 J	<0.62	<0.48	<1.1	<0.6	1.1 J	<0.55	4.7 J	**96.1**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-25D	10/27/2022	µg/L	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	0.87 J	<0.28	<2	**90.1**	<0.3	<0.22	0.78 J	<0.41	<0.72
MW-25D	4/25/2023	µg/L	<0.25	<0.34	2.2	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**101**	3.7 /B/T	<0.22	<0.35	<0.41	<0.72
MW-25D	11/8/2023	ug/l	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**63.3**	<0.3	<0.22	<0.35	<0.41	<0.72
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-26D	4/13/2022	µg/L	<0.25	<0.34	1	<0.31	<0.24	<0.53	<0.3	0.98 J	<0.28	<2	**52.1**	0.73 J/B/T	<0.22	1	<0.41	<0.72
MW-26D	10/27/2022	µg/L	<0.25	<0.34	0.7 J	<0.31	<0.24	<0.53	<0.3	0.68 J	<0.28	<2	**60.3**	<0.3	<0.22	0.8 J	<0.41	<0.72
MW-26D	11/8/2023	ug/l	<0.25	<0.34	0.72 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**42.3**	<0.3	<0.22	0.73 J	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-27	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.83 J	<0.22	<0.35	<0.41	<0.72
MW-27	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	4/12/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.24 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/18/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	5/8/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/30/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	4/23/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	4/14/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/19/2020	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-28	10/26/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.69 J	<0.22	<0.35	<0.41	<0.72
MW-28	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	4/12/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**5.4**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/18/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.56 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	5/8/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/30/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	4/23/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	4/14/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/19/2020	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	10/26/2022	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
MW-30D	4/13/2022	µg/L	<0.25	<0.34	1.5	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**68.4**	<0.3	<0.22	1.1	<0.41	<0.72
MW-30D	10/27/2022	µg/L	<0.25	<0.34	0.82 J	<0.31	<0.24	<0.53	<0.3	0.6 J	<0.28	<2	**67.4**	<0.3	<0.22	0.79 J	<0.41	<0.72
MW-30D	4/25/2023	µg/L	<0.25	<0.34	1.6	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**90.4**	2.2 /B/T	<0.22	1.1	<0.41	<0.72
MW-30D	11/8/2023	ug/l	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**53.2**	0.62 J/B/T	<0.22	0.73 J	<0.41	<0.72
MW-31D	4/13/2017	µg/L	<0.25	<0.34	3.1	<0.31	0.82 J	<0.53	1.8	<0.28	<0.28	<2	**89.2**	<0.3	<0.22	0.41 J	<0.41	2.6 J
MW-31D	10/18/2017	µg/L	<0.25	<0.34	4.7	<0.31	<0.24	<0.53	<0.3	2	<0.28	<2	**161**	<0.3	<0.22	0.61 J	<0.41	<0.72
MW-31D	5/8/2018	µg/L	<0.25	<0.34	6	<0.31	<0.24	<0.53	<0.3	2.5	<0.28	<2	**181**	<0.3	<0.22	1	<0.41	<0.72
MW-31D	10/29/2018	µg/L	<0.5	<0.68	4.8	<0.62	<0.48	<1.1	<0.6	2.6	<0.55	<4	**230**	<0.6	<0.44	0.87	<0.82	<1.4
MW-31D	4/22/2019	µg/L	<0.62	<0.85	4	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**232**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	10/14/2019	µg/L	<0.62	<0.85	4.4	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**192**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	4/14/2020	µg/L	<0.62	<0.85	3.2	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**130**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	10/19/2020	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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-31D	4/13/2022	µg/L	<0.5	<0.68	2.6	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	**5.7 J**	**126**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-31D	10/27/2022	µg/L	<0.25	<0.34	2.1	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**115**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-31D	4/25/2023	µg/L	<0.25	<0.34	3.3	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**134**	1.3 /B/T	<0.22	<0.35	<0.41	<0.72
MW-31D	11/8/2023	ug/l	<0.25	<0.34	3.7	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**128**	<0.3	<0.22	<0.35	<0.41	<0.72
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-32DR	4/13/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**18.7**	0.3 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-32DR	10/27/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**22.2**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-32DR	4/25/2023	µg/L	<0.25	<0.34	0.37 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**25.3**	2.1 /JB/AT	<0.22	<0.35	<0.41	<0.72
MW-32DR	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**19.1**	<0.3	<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-33D	4/14/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.48 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-33D	10/27/2022	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	4/25/2023	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-33D	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.9 J/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-34D	4/14/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	2.2 /B/T	<0.22	<0.35	<0.41	<0.72
MW-34D	10/27/2022	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	4/25/2023	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-34D	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-35D	11/25/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.2	<0.22	<0.35	<0.41	<0.72
MW-35D	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-35D	10/19/2020	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-35D	4/14/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.61 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-35D	10/27/2022	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	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	3.4 /B/T	<0.22	<0.35	<0.41	<0.72
MW-35D	11/8/2023	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
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-36D	4/13/2022	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 J/B/T	<0.22	<0.35	<0.41	<0.72
MW-36D	10/27/2022	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	4/25/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	2.3 /B/T	<0.22	<0.35	<0.41	<0.72
MW-36D	11/8/2023	ug/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-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
MW-37	4/14/2022	µg/L	134 J	<85	**113 J**	<78	<61	<130	<75	<69	<69	**661 J**	**27100**	<75	<55	<86	<100	<180
MW-37	11/15/2022	µg/L	<120	<170	<160	<160	<120	<270	<150	<140	<140	**2400 J**	**16500**	<150	<110	<170	<200	<360
MW-37	4/25/2023	µg/L	<120	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**35900**	<150	<110	<170	<200	<360
MW-37	11/8/2023	ug/l	<25	<34	<32	<31	<24	<53	<30	<28	<28	**267 J**	**7900**	<30	<22	<35	<41	<72
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-01-LC	4/12/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.0	<0.3	<0.22	<0.35	<0.41	<0.72
SW-01-LC	10/25/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.4	0.37 J	<0.22	<0.35	<0.41	<0.72
SW-01-LC	4/24/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1 /B/T	<0.22	<0.35	<0.41	<0.72
SW-01-LC	11/7/2023	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
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-02-LC	4/12/2022	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	10/25/2022	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	4/24/2023	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	11/7/2023	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-03-HMB	4/12/2022	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	10/25/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	0.64 J	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-03-HMB	4/24/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.48 J/B/T	<0.22	<0.35	<0.41	<0.72
SW-03-HMB	11/7/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-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
SW-04-TLC	4/12/2022	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.43 J/B/T	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	4/24/2023	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	11/7/2023	µg/L	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY	NA - DRY

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethylene	1,2-Dichloro-ethane	Bromo-dichloro-methane	Carbon disulfide	Chloro-form	cis-1,2-Dichloro-ethylene	Dibromo-chloro-methane	Methylene Chloride	Tetra-chloro-ethylene	Toluene	trans-1,2-Dichloro-ethylene	Trichloro-ethylene	Vinyl Chloride	Xylene (total)
SW-05-LC	4/12/2022	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-05-LC	10/25/2022	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-05-LC	4/24/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.89 J/B/T	<0.22	<0.35	<0.41	<0.72
SW-05-LC	11/7/2023	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.7 J	<0.3	<0.22	<0.35	<0.41	<0.72
SW-1	6/5/2003	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	1	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
SW-1	1/9/2008	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NA
SW-1	11/4/2009	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NA
SW-1	4/29/2010	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NA

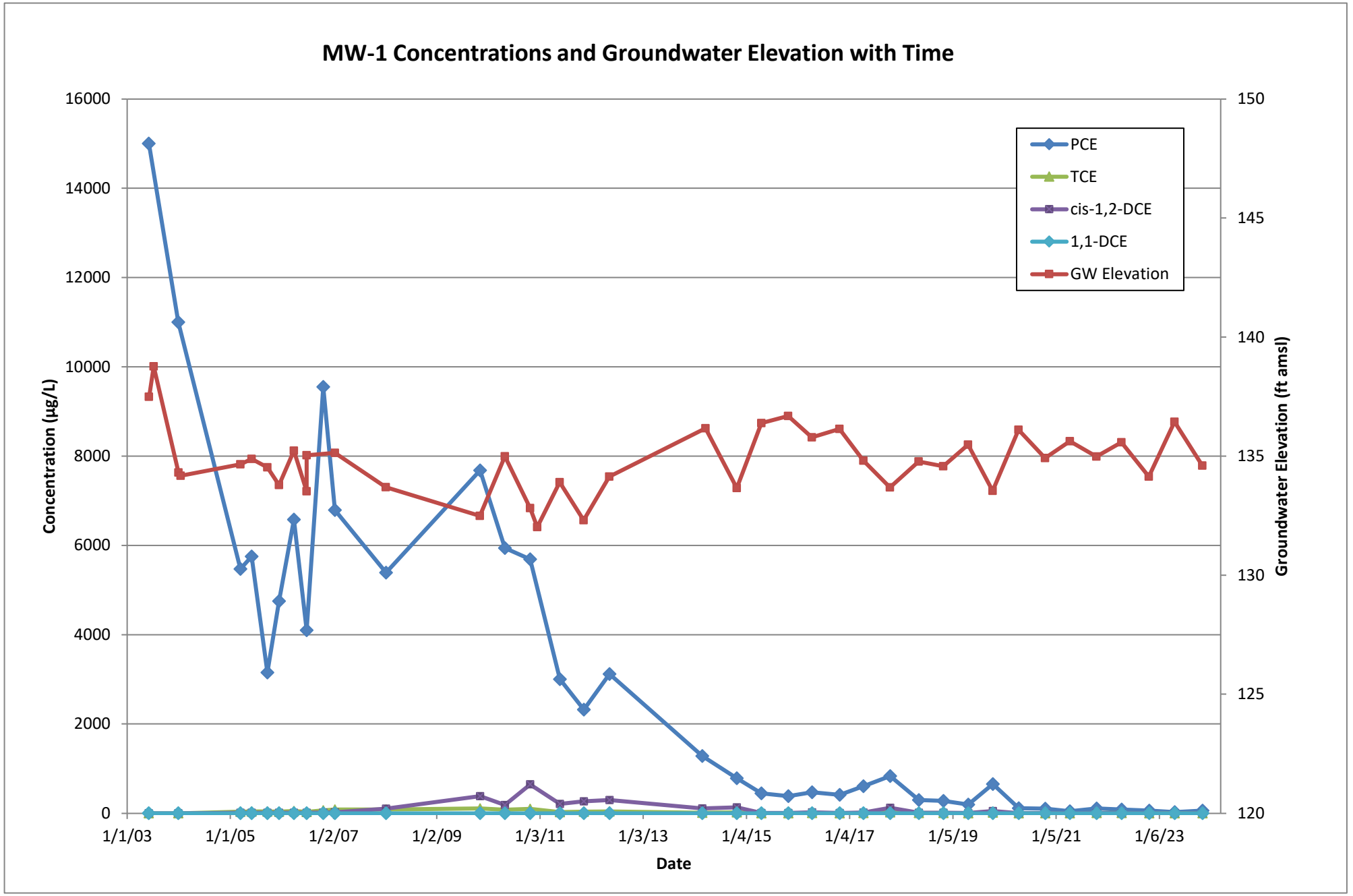
Notes:
µg/L - micrograms per liter NA - Not available/not analyzed NS - No standard

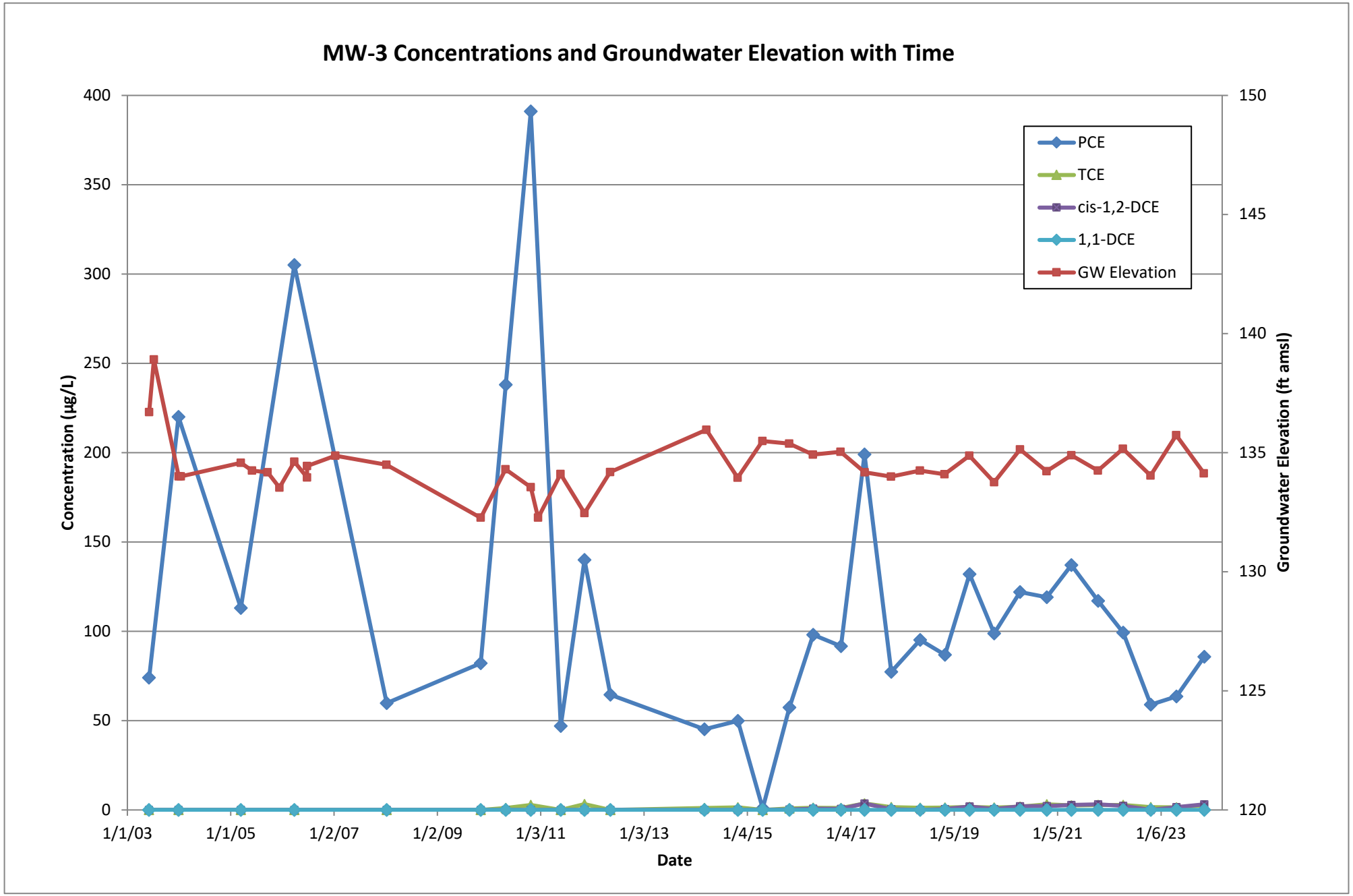
Data Qualifiers:
E - Indicates value exceeds calibration range
J - Estimated concentration above the method detection limit and below the reporting limit.
/B - The analyte was found in an associated blank as well as the sample.
/J/A - The analyte was positively identified. The quantitation is estimation. Percent difference between the primary and duplicate sample exce
/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.
//T - Detected in the associated trip blank.

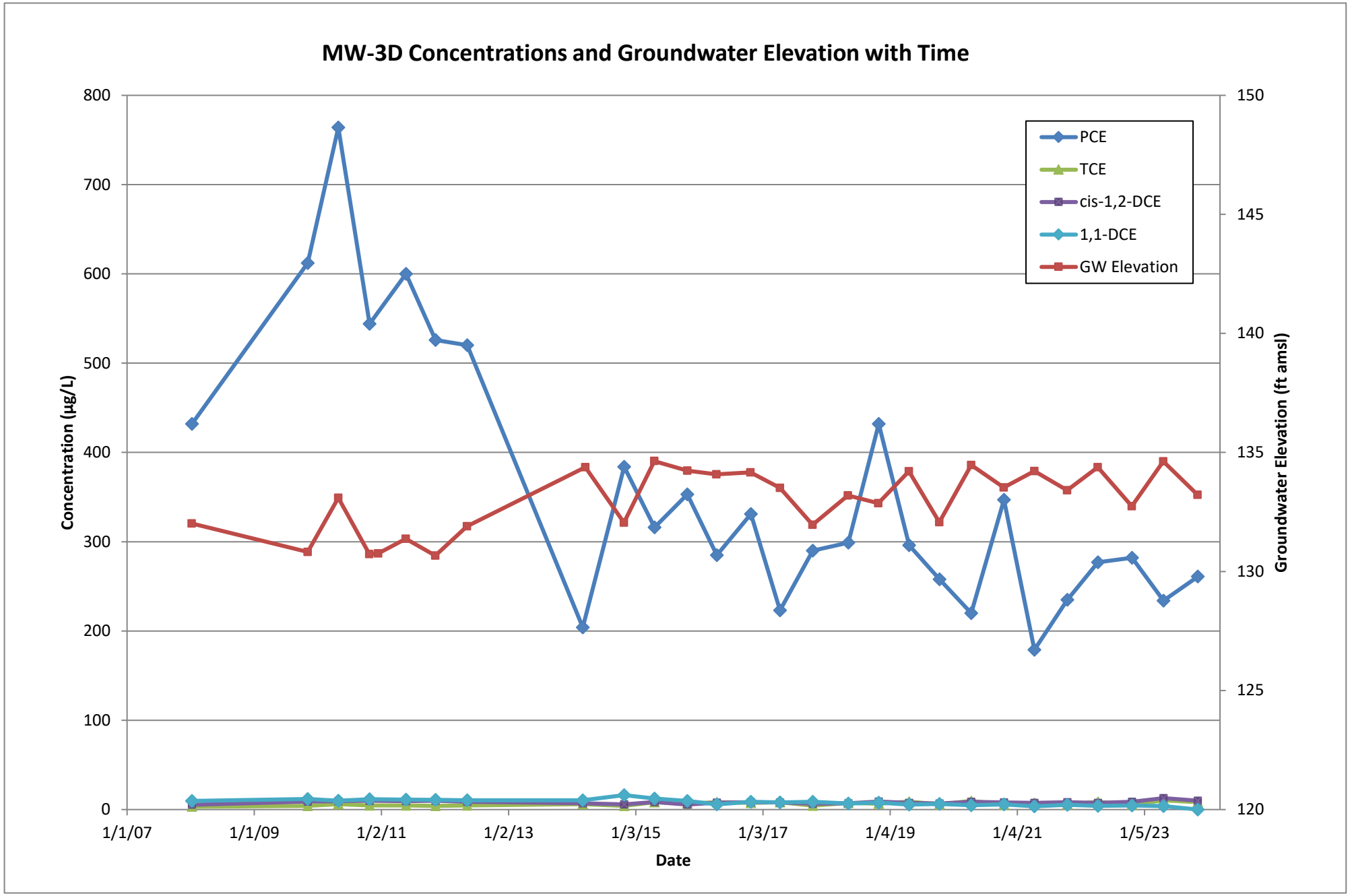
Appendix E

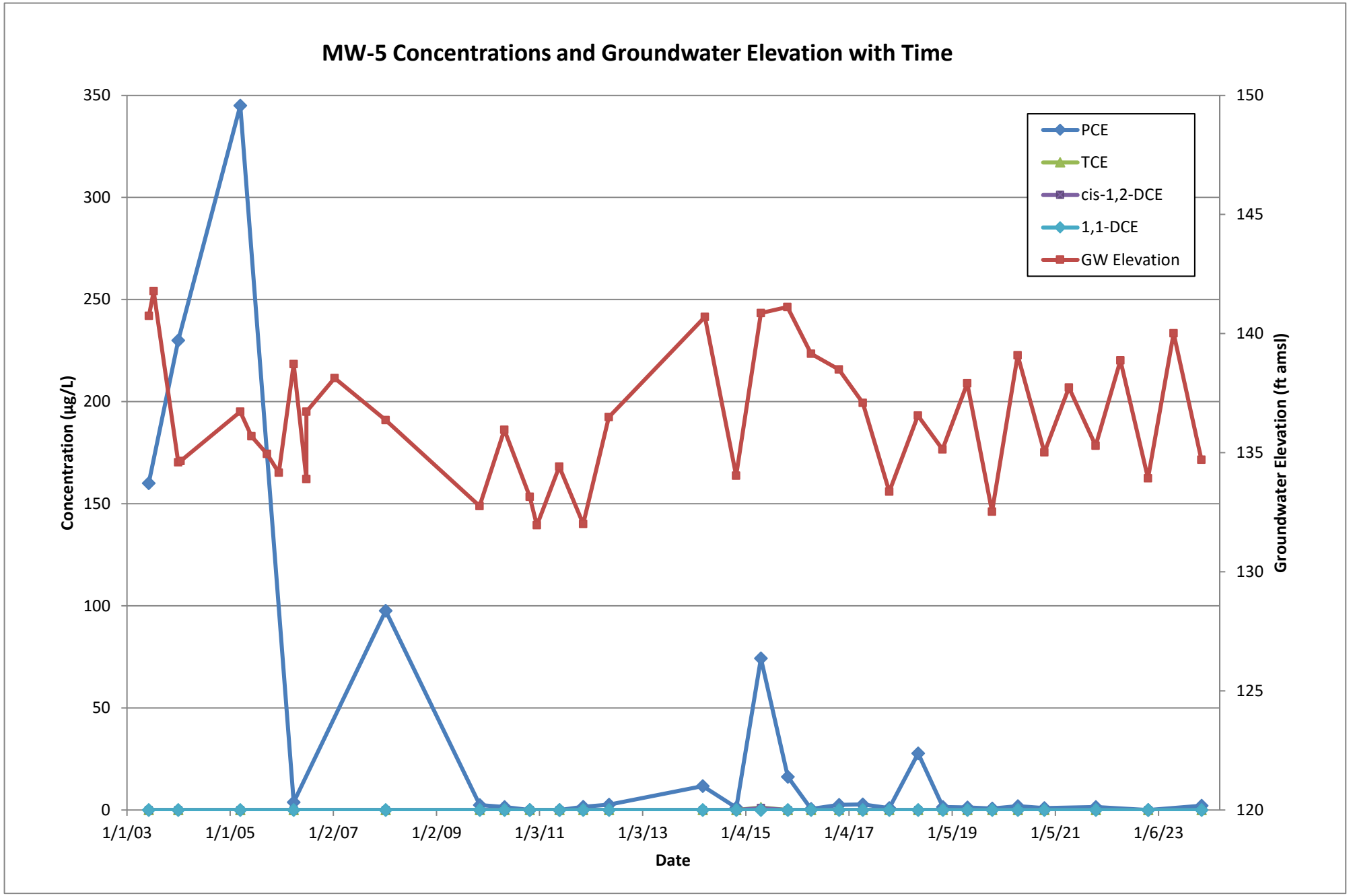
Trend Data

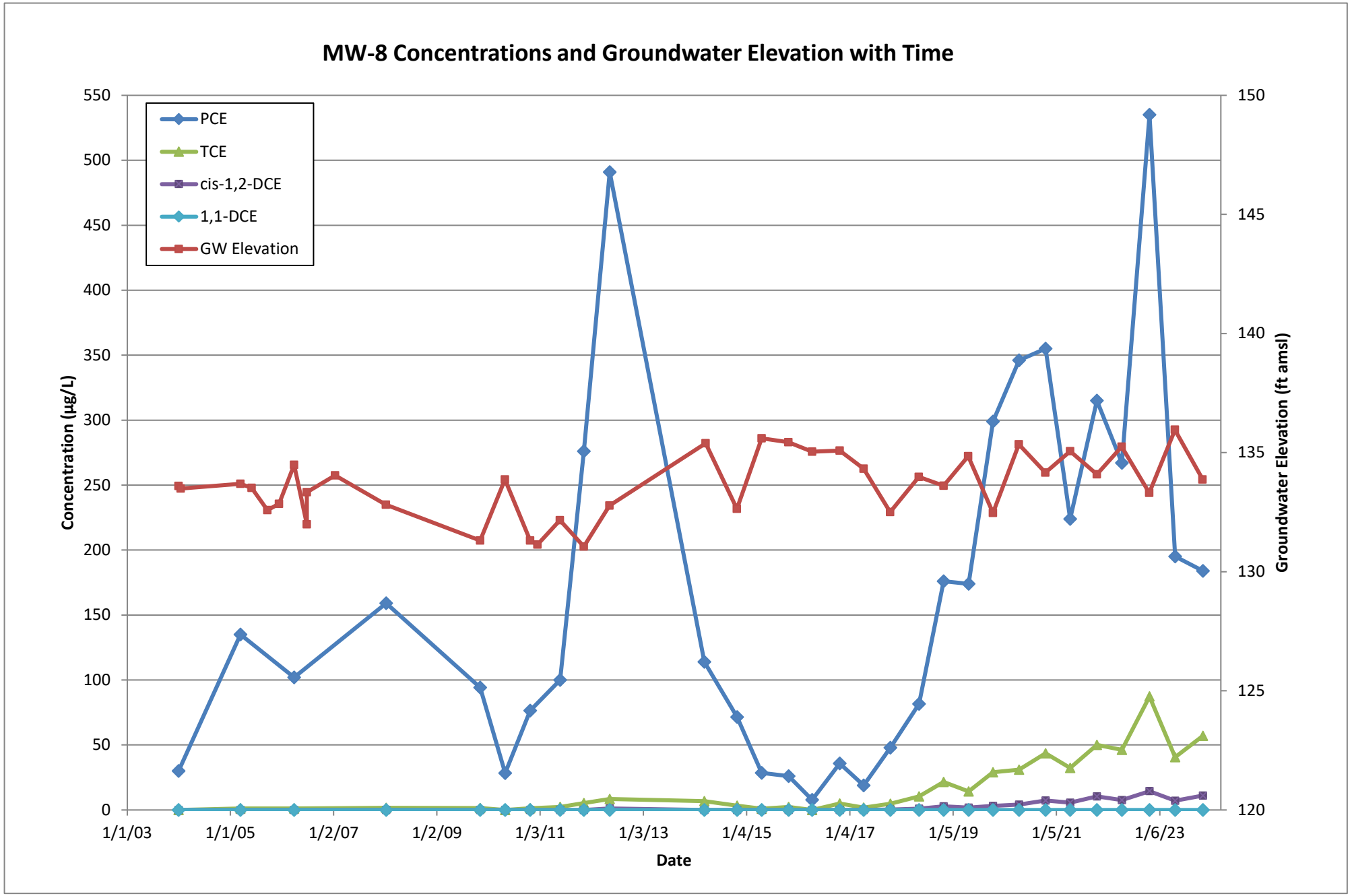
Trend Plots
Mann Kendall Analysis

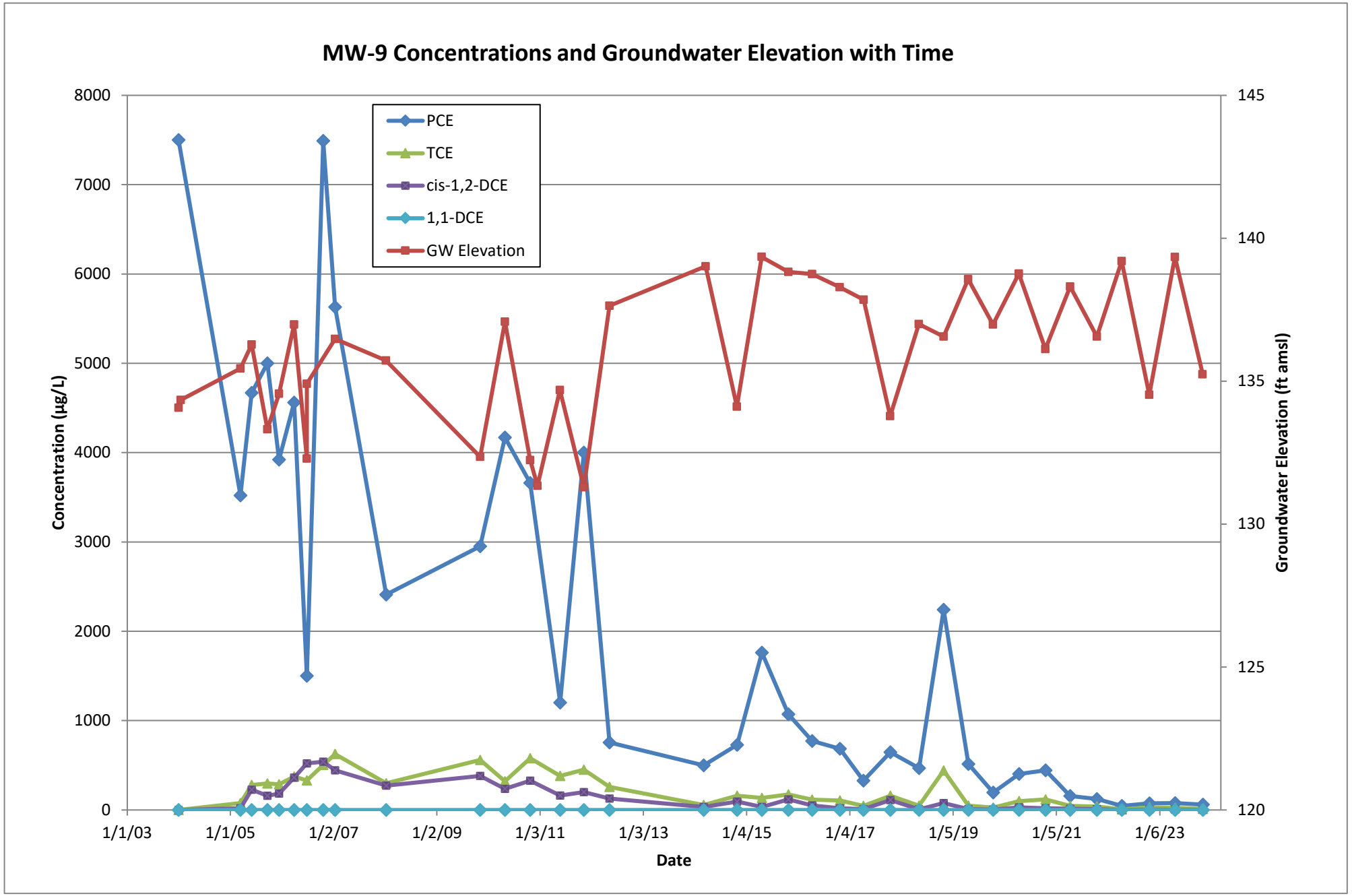

MW-1 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
16000
14000
12000
10000
8000
6000
4000
2000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

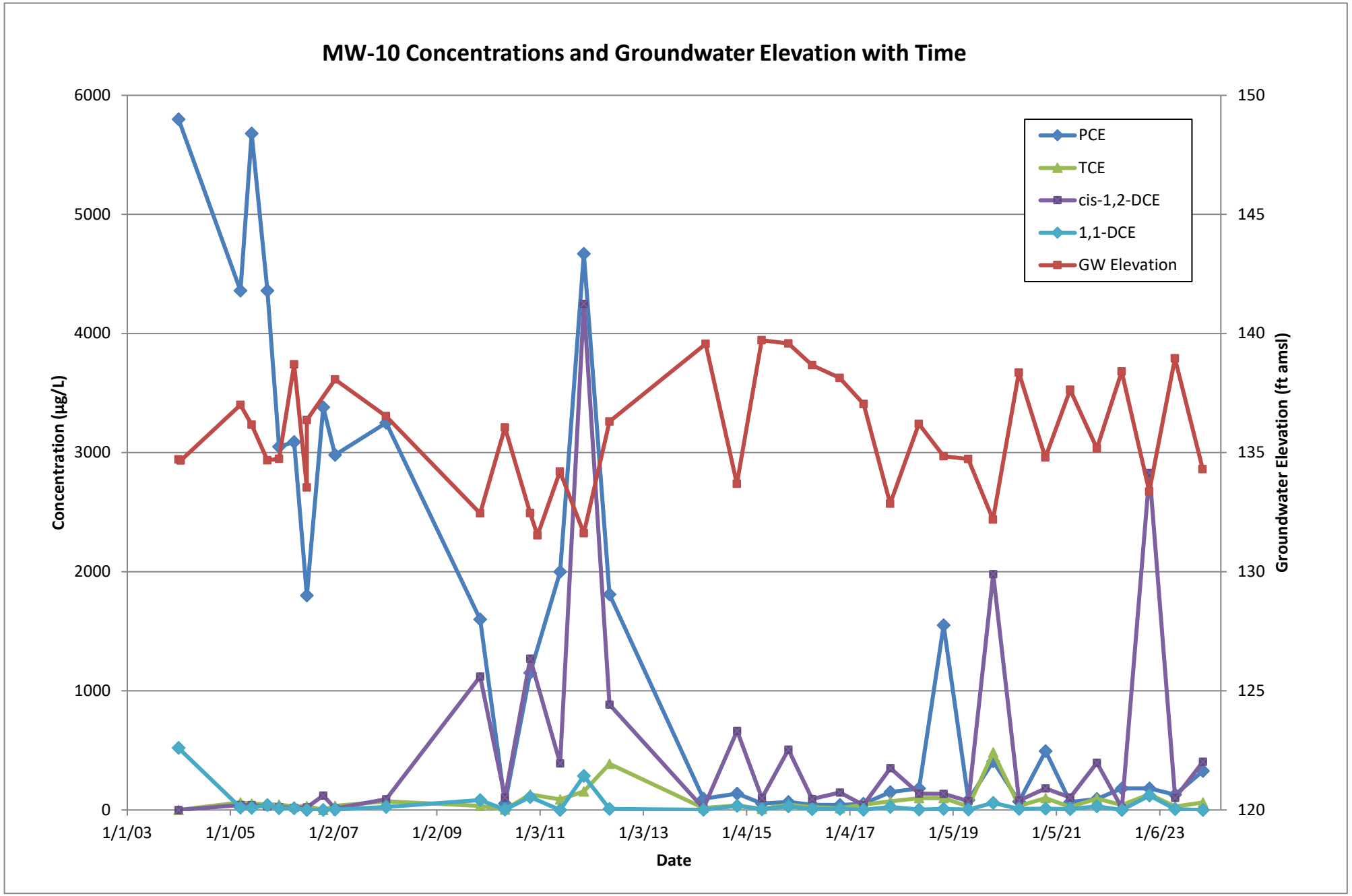

MW-3 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

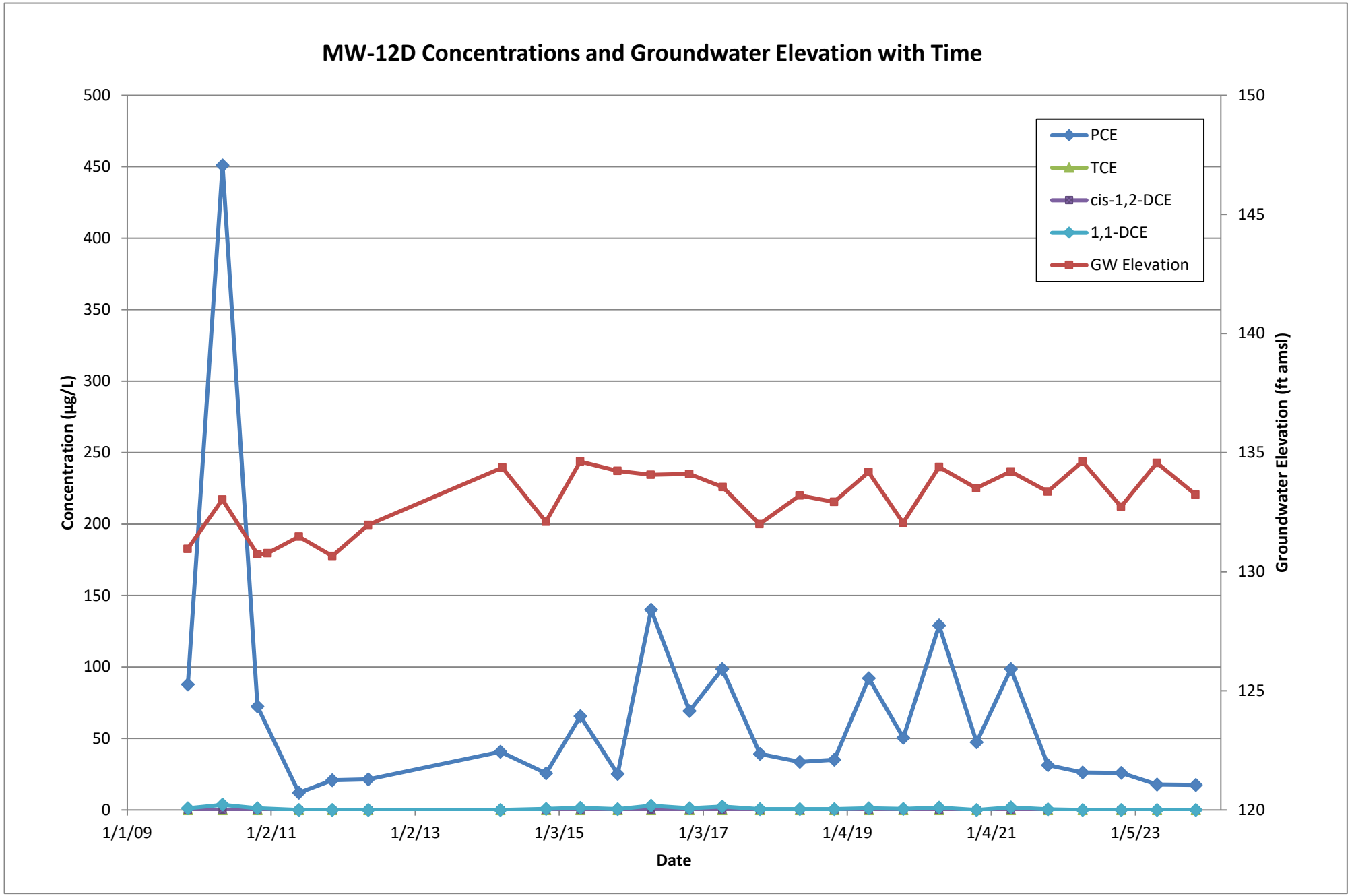

MW-3D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
800
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/07
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23

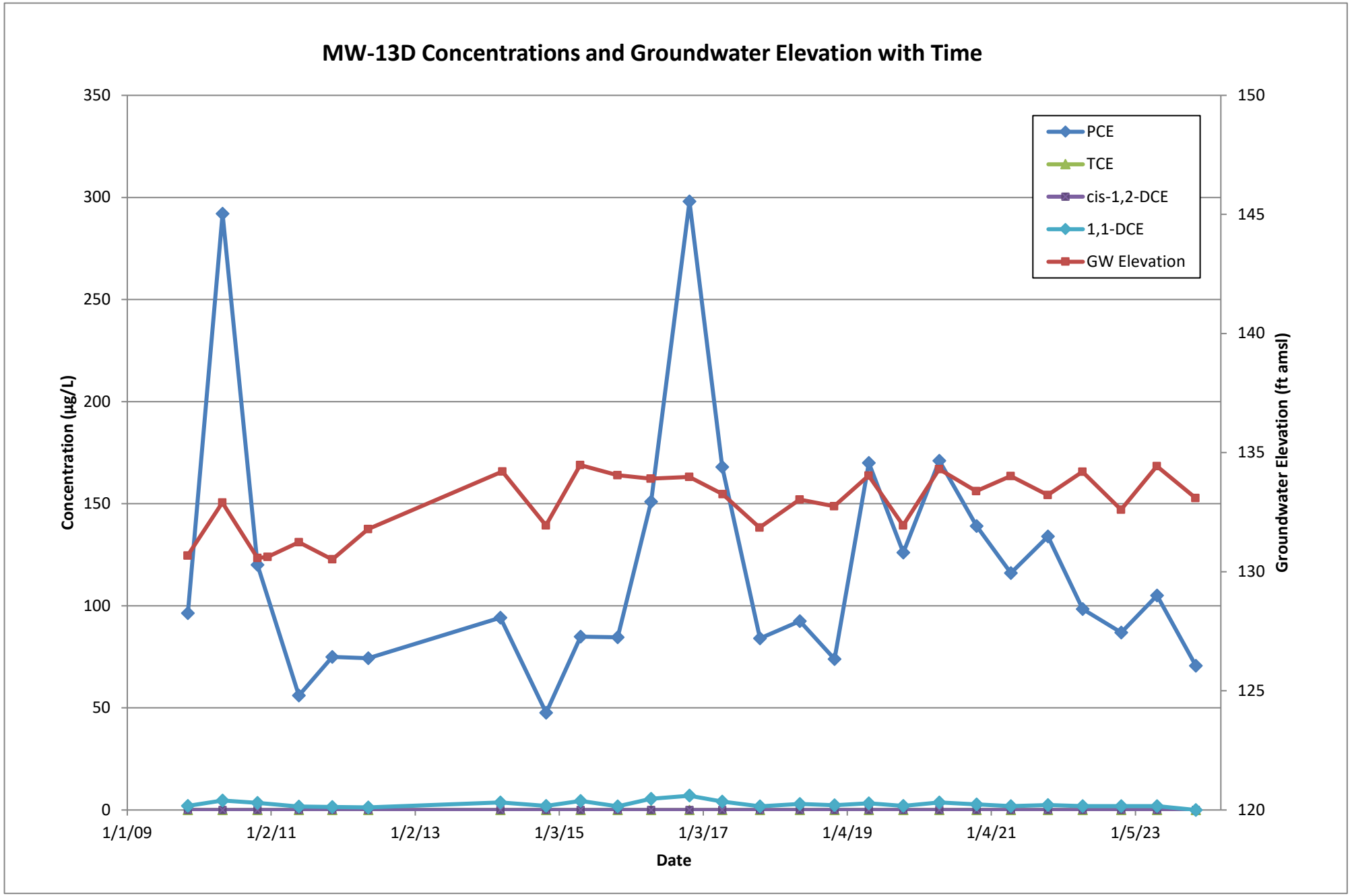

MW-5 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

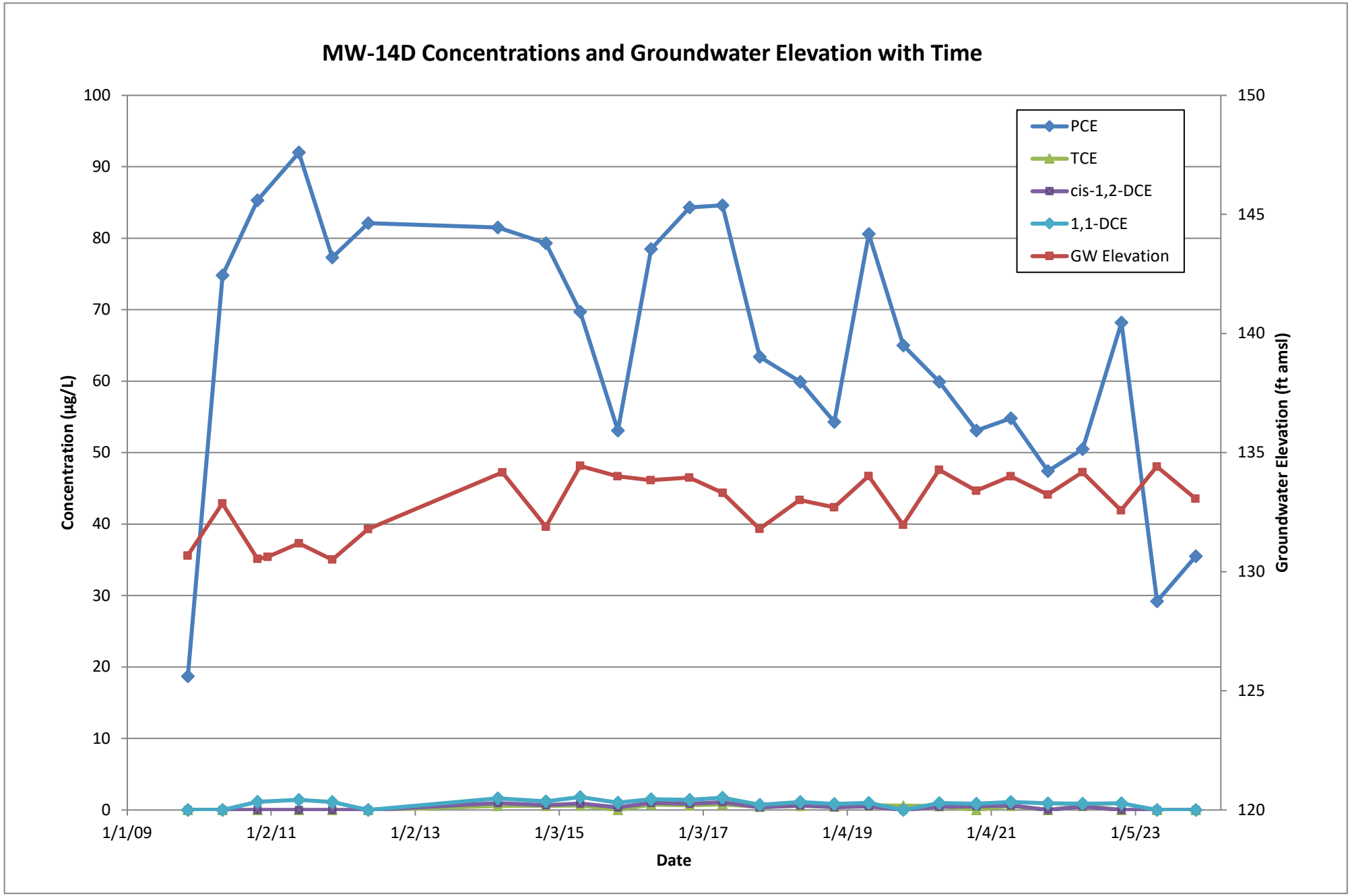

MW-8 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
550
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

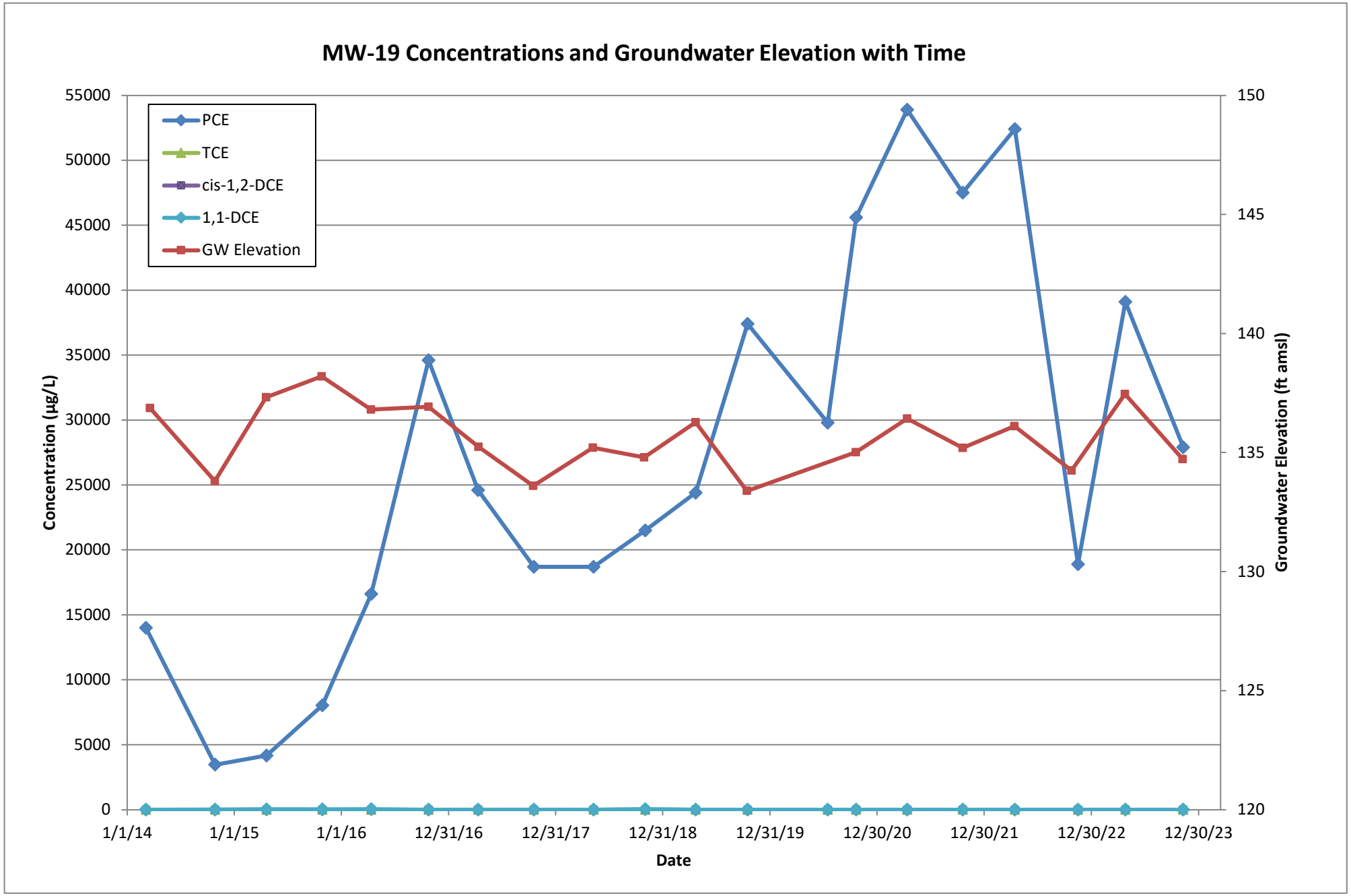

MW-9 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
8000
7000
6000
5000
4000
3000
2000
1000
0
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

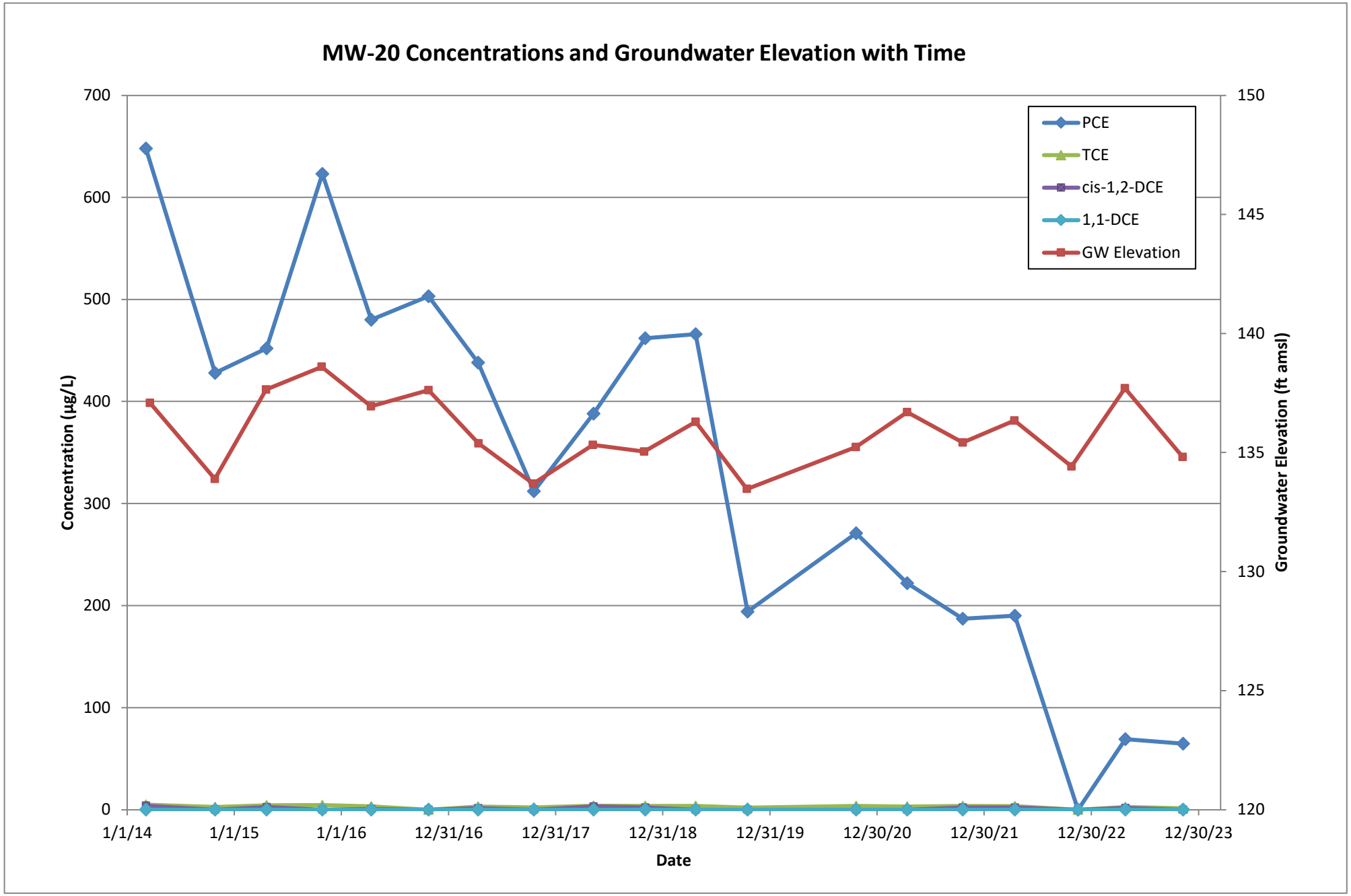

MW-10 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
6000
5000
4000
3000
2000
1000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

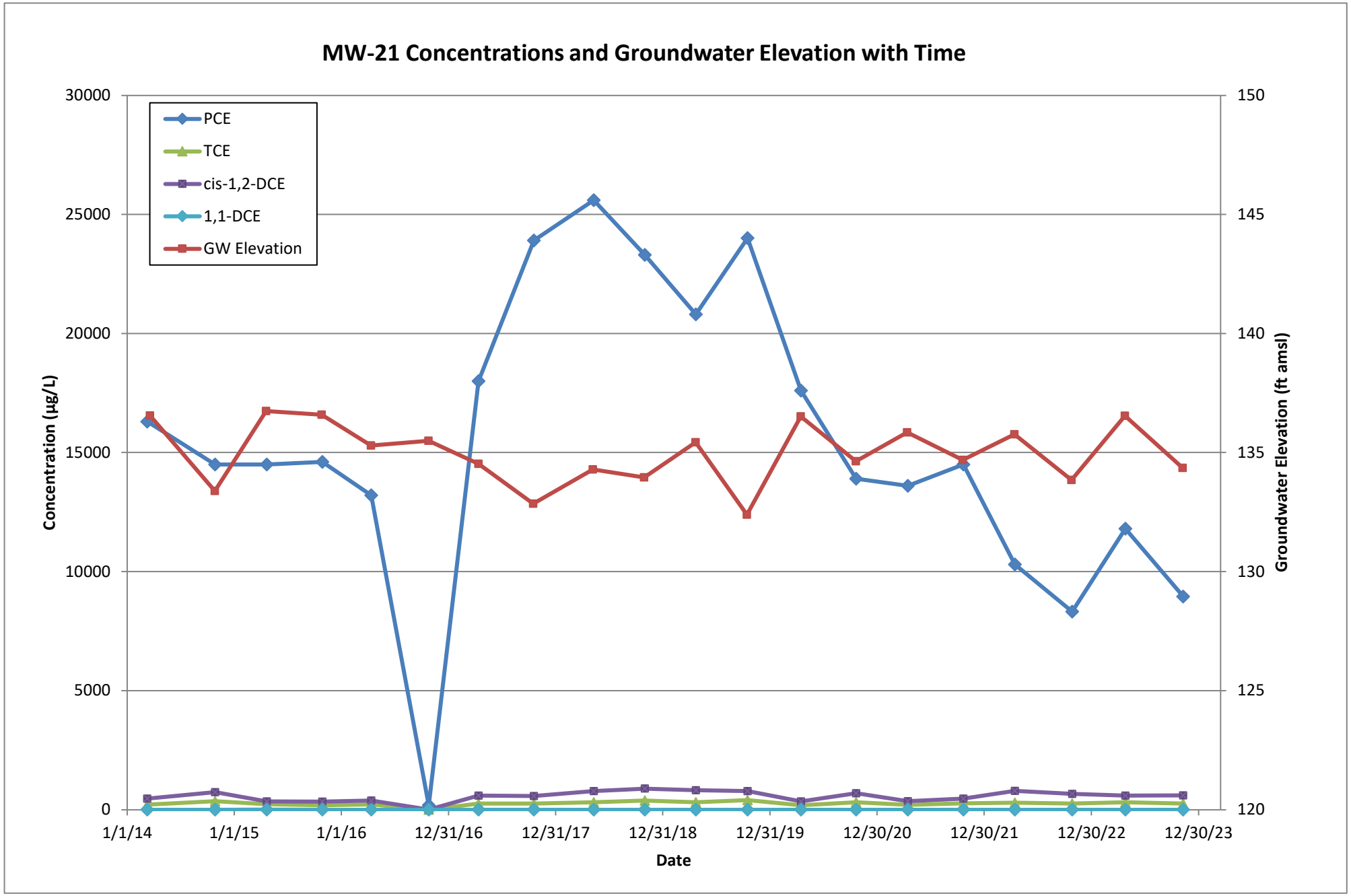

MW-12D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23

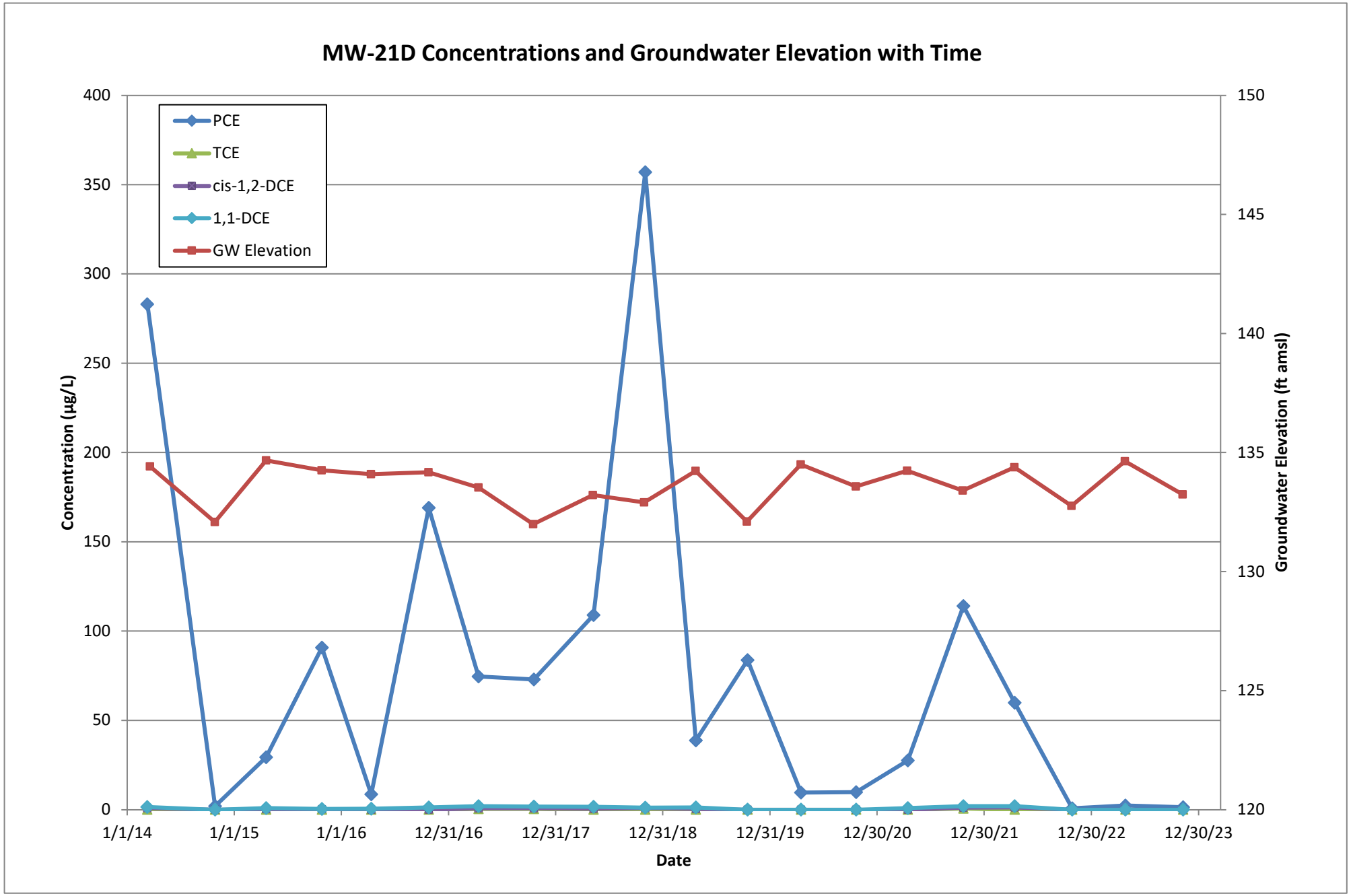

MW-13D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23

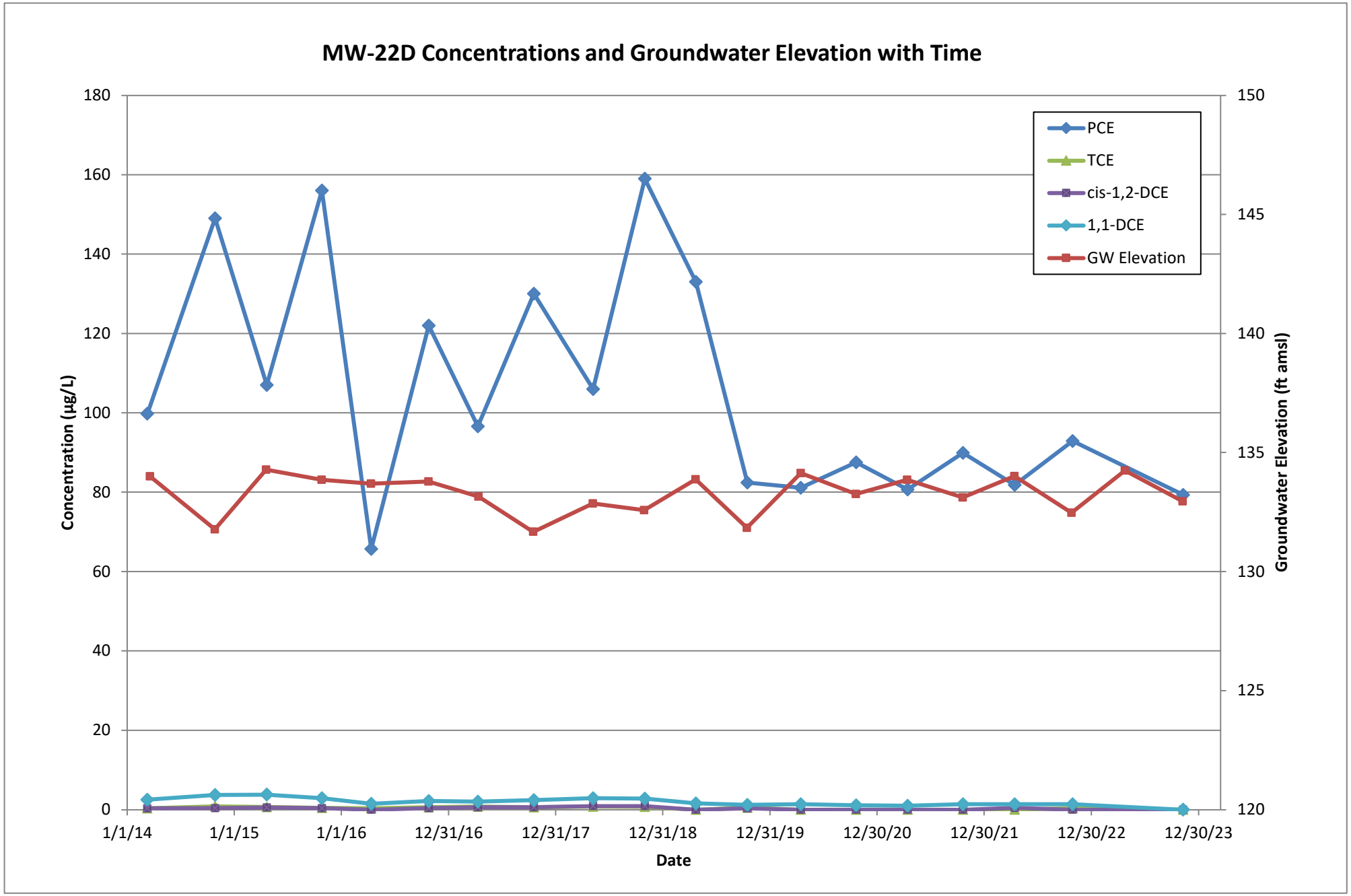

MW-14D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
100
90
80
70
60
50
40
30
20
10
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23

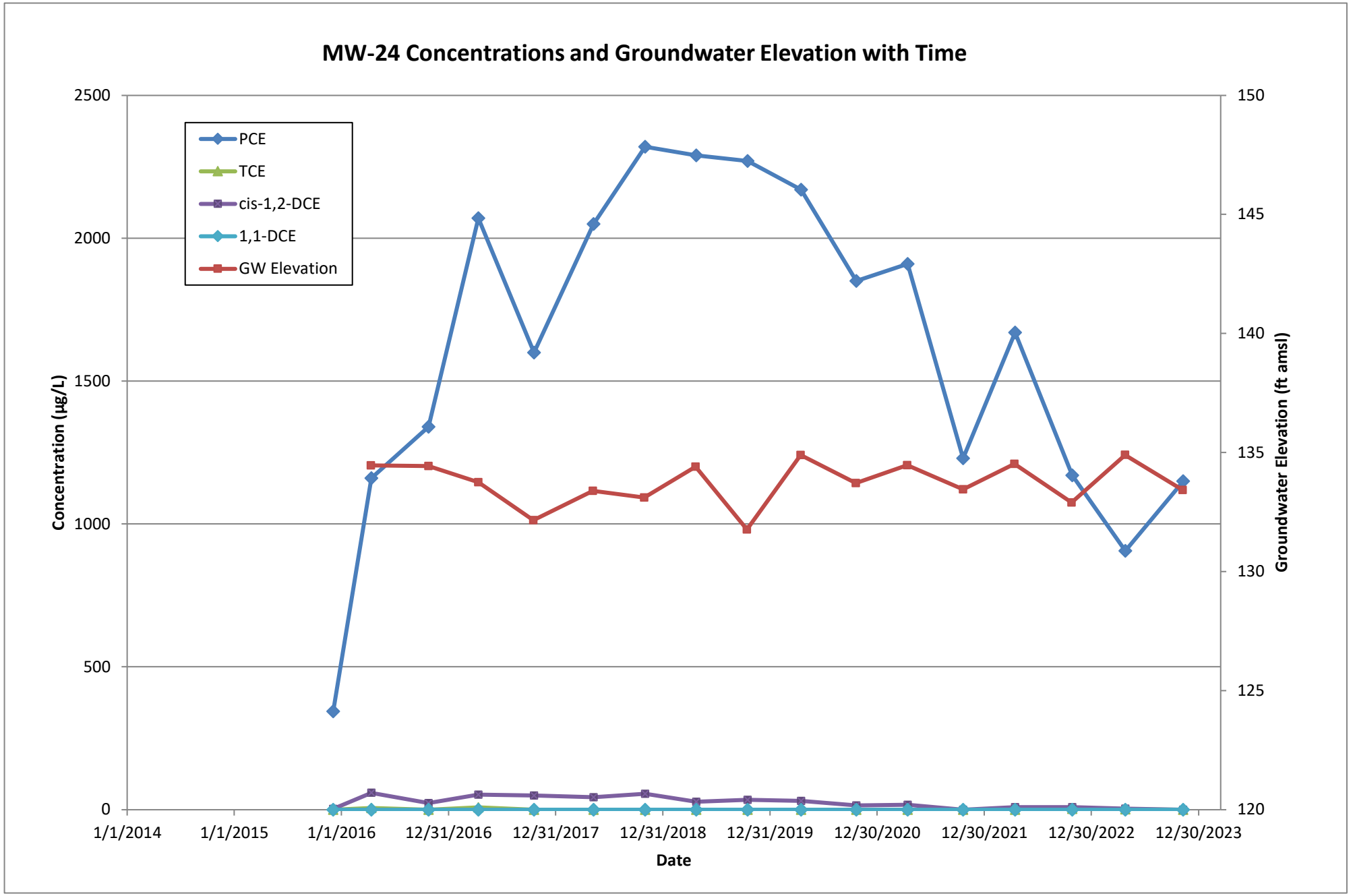

MW-19 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
55000
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22
12/30/23

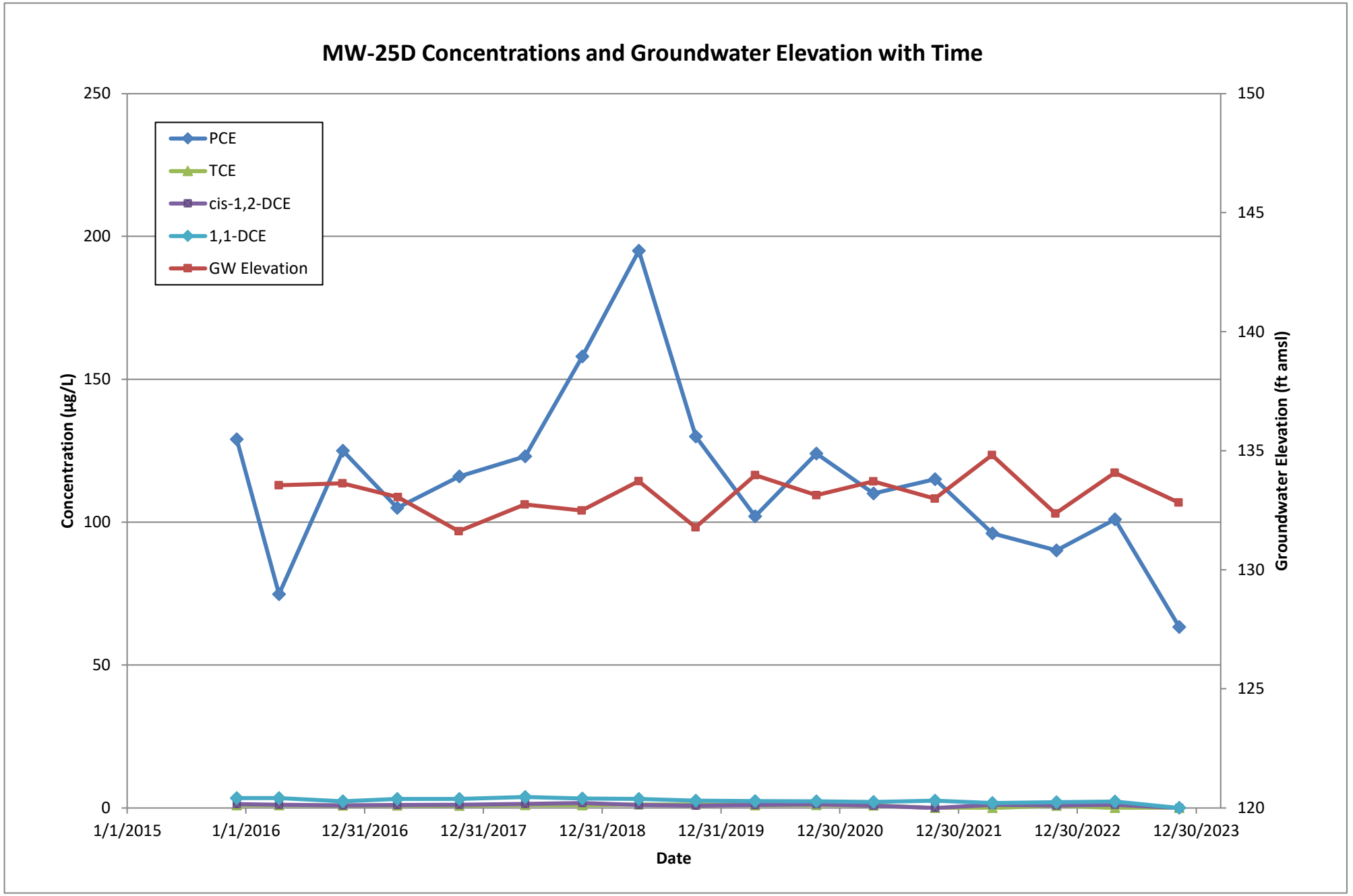

MW-20 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22
12/30/23

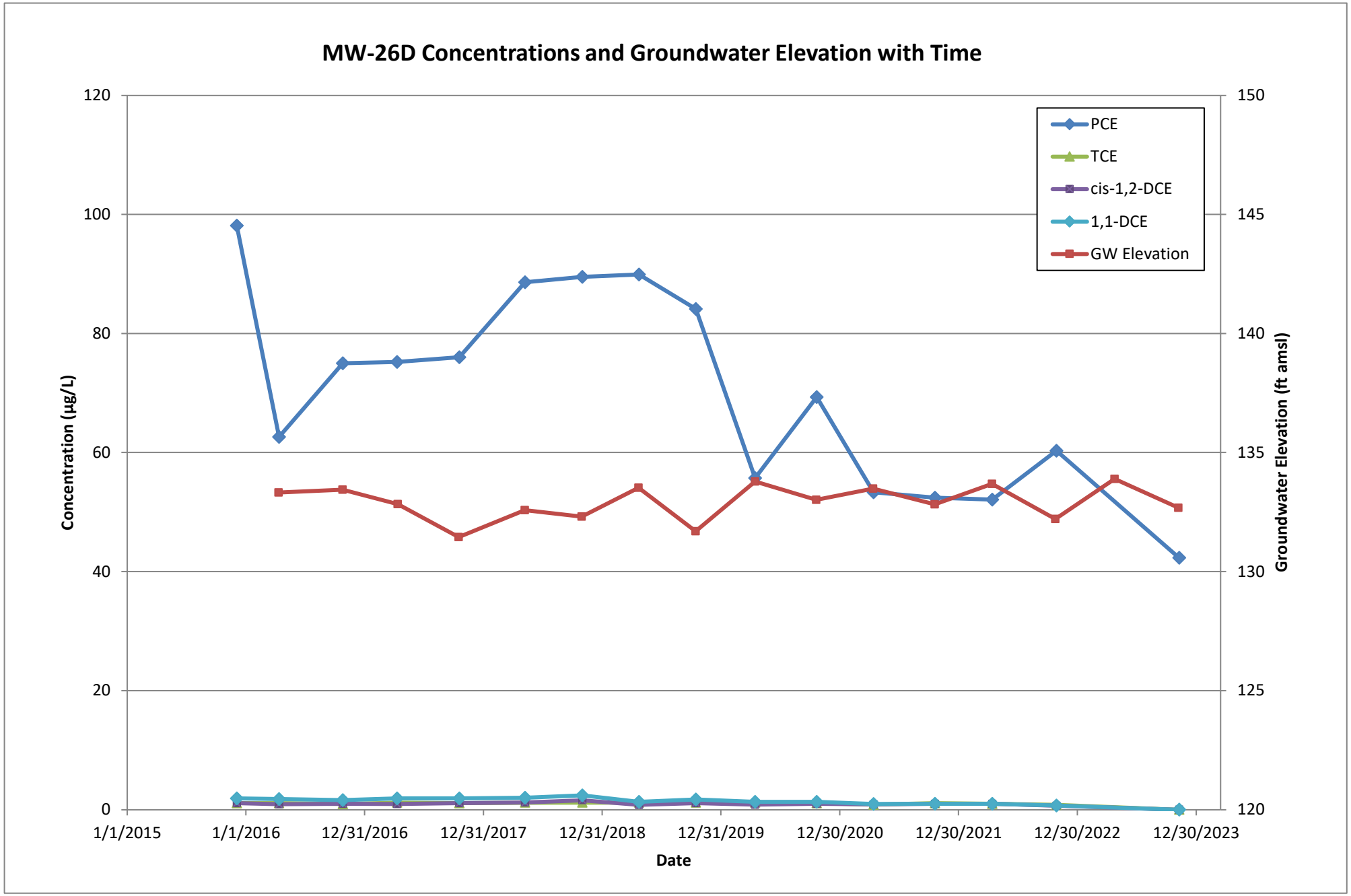

MW-21 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22
12/30/23

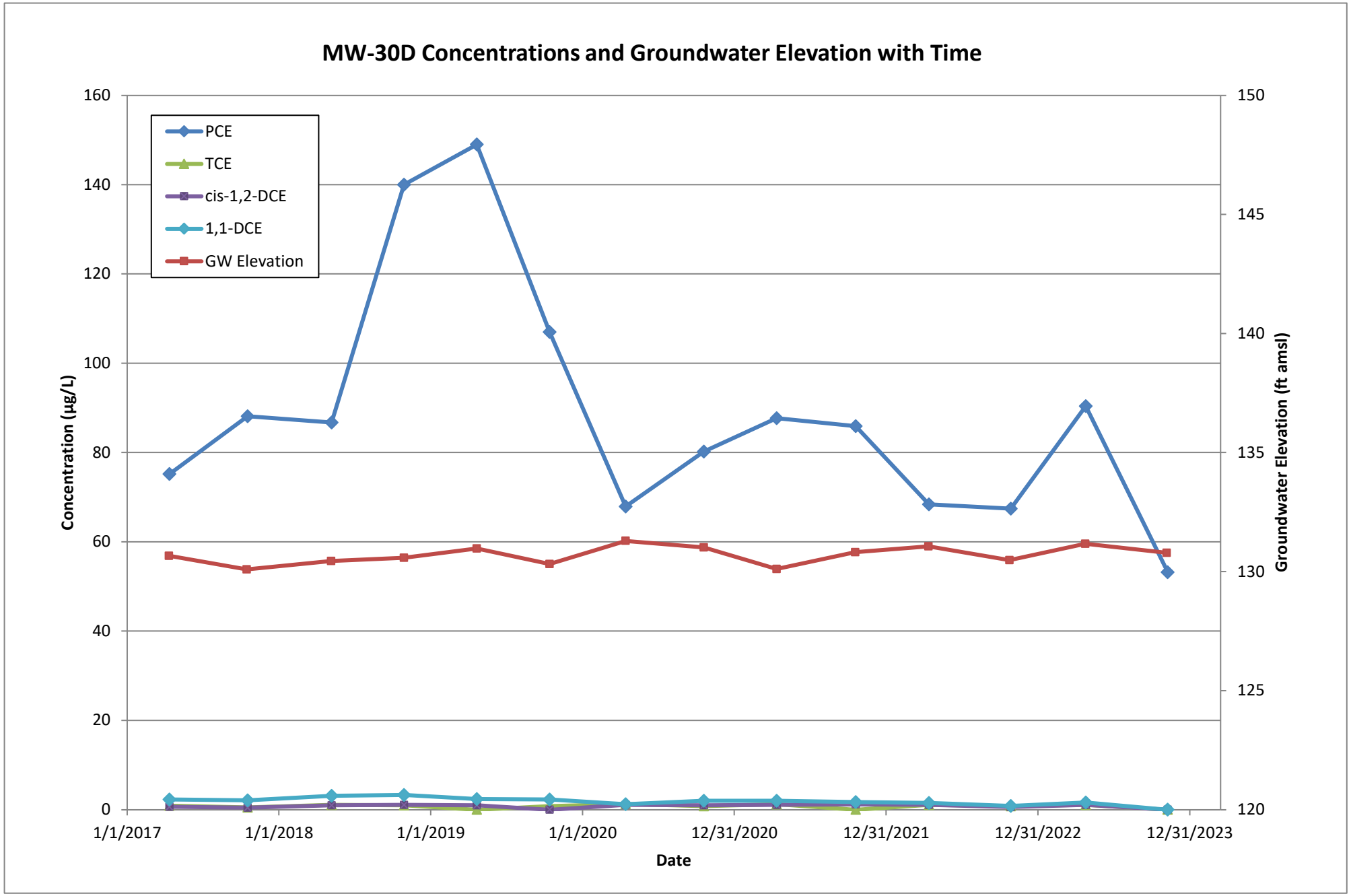

MW-21D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22
12/30/23

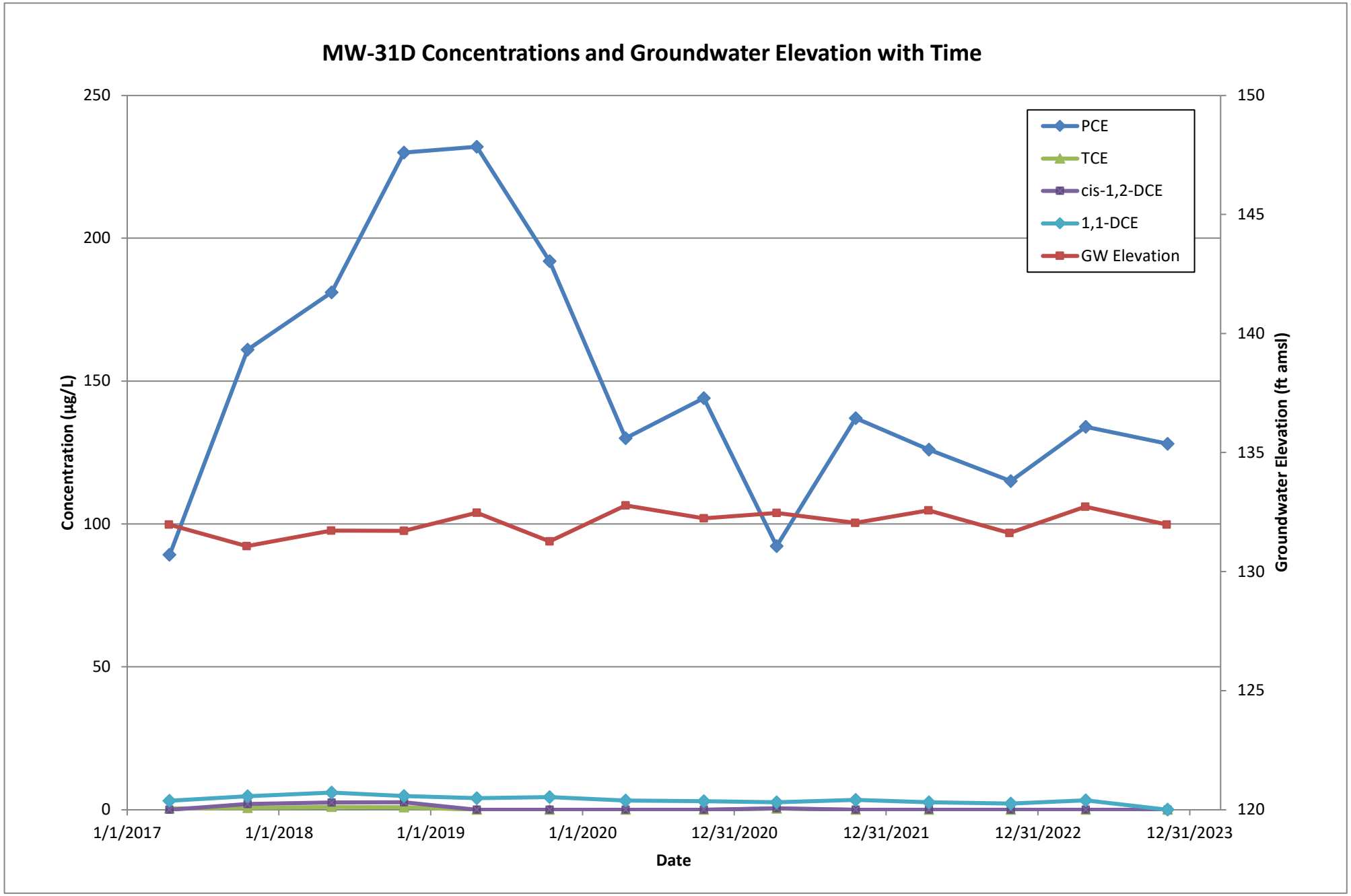

MW-22D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
180
160
140
120
100
80
60
40
20
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22
12/30/23

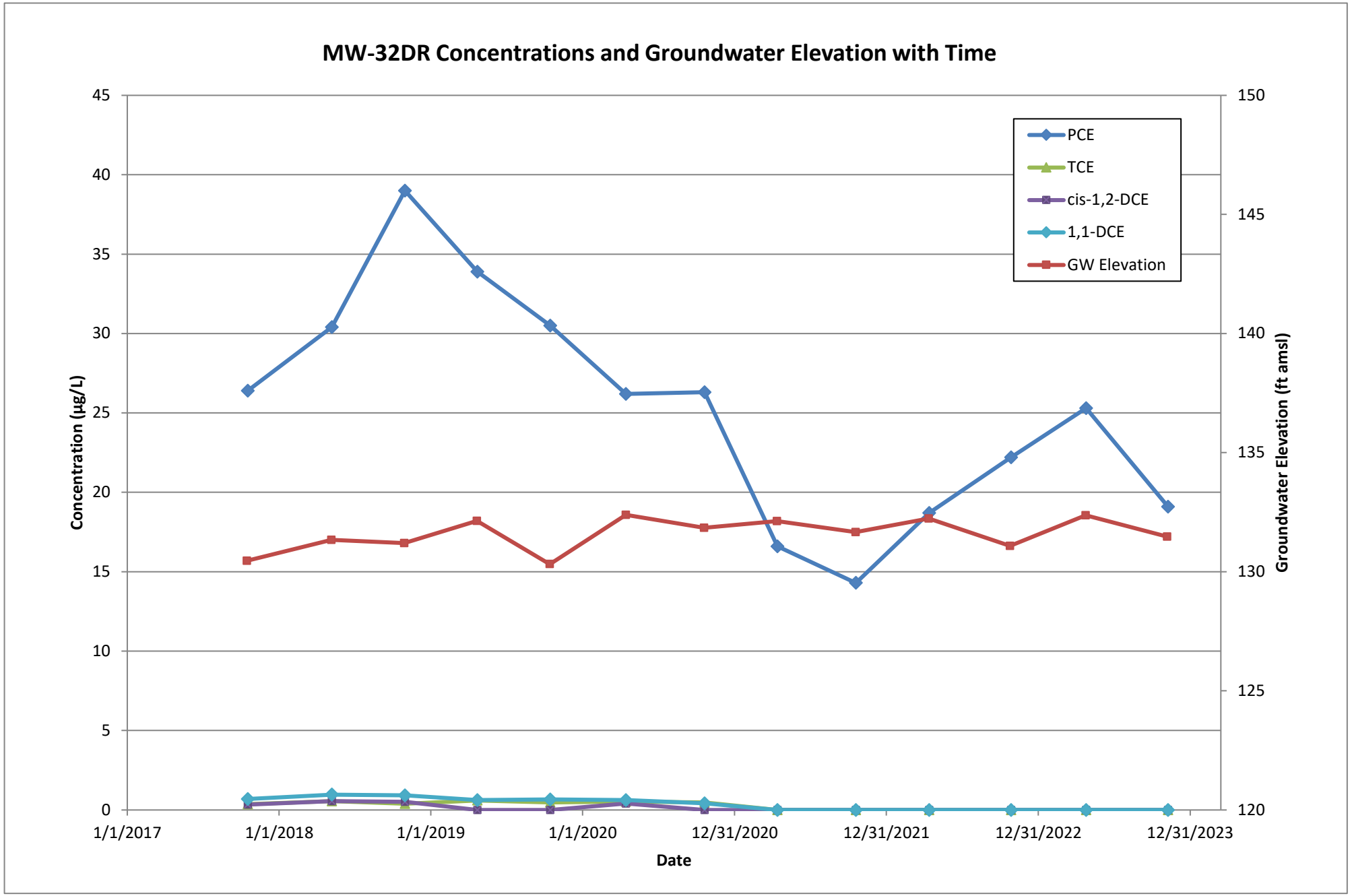

MW-24 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
2500
2000
1500
1000
500
0
150
145
140
135
130
125
120
1/1/2014
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023

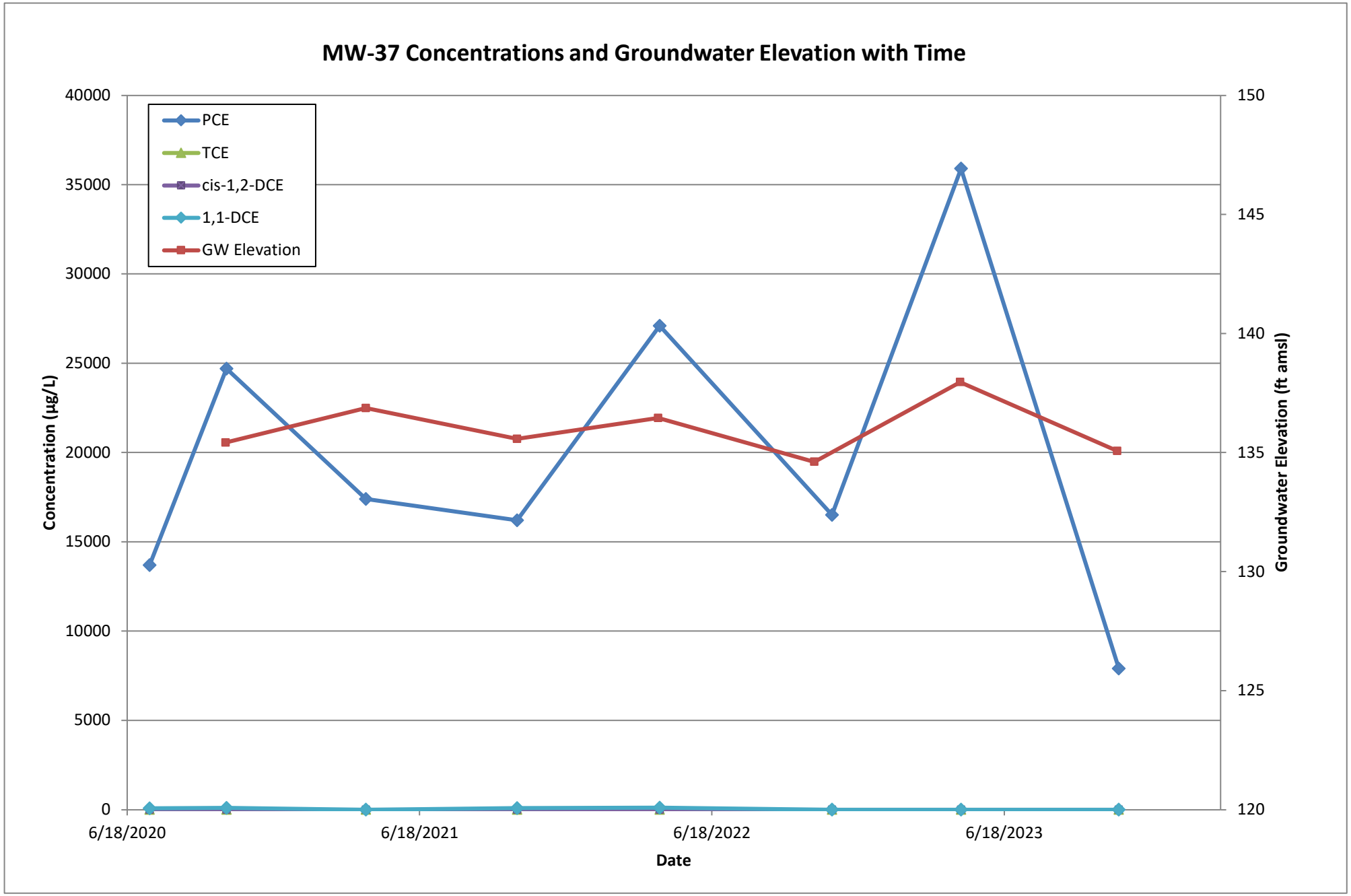

MW-25D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022
12/30/2023


MW-26D 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
120
100
80
60
40
20
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
12/30/2022
12/30/2023


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
12/31/2022
12/31/2023


MW-31D 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
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
12/31/2022
12/31/2023


MW-32DR 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
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
12/31/2022
12/31/2023

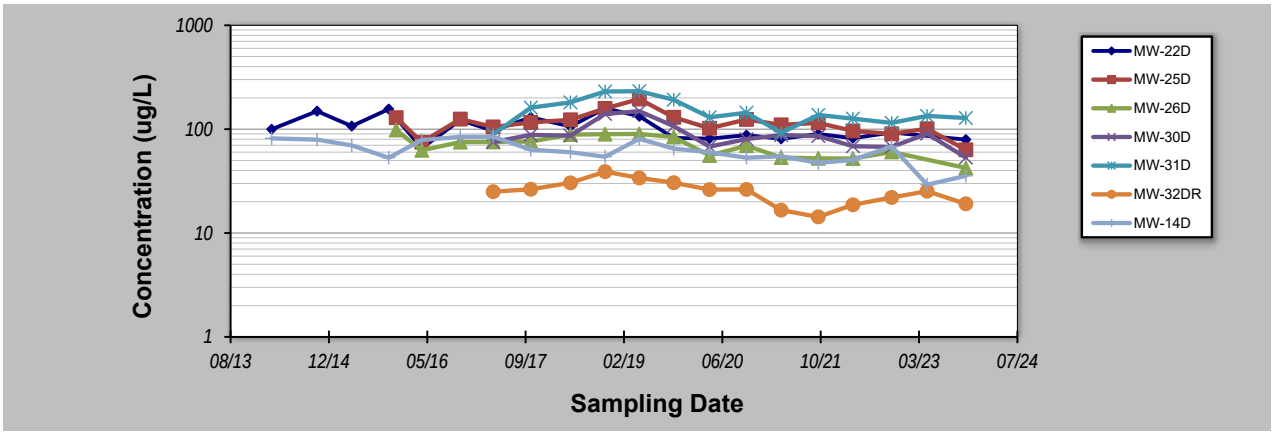

MW-37 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
40000
35000
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
6/18/2020
6/18/2021
6/18/2022
6/18/2023

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 8-Feb-24
Facility Name: Delavan
Conducted By: LJA

Job ID: Fall 2023 Semi-Annual
Constituent: PCE
Concentration Units: ug/L

Sampling Point ID:	MW-22D	MW-25D	MW-26D	MW-30D	MW-31D	MW-32DR	MW-14D
Sampling Event	Sampling Date	PCE CONCENTRATION (ug/L)						
1	11-Mar-14	99.8						81.5
2	28-Oct-14	149						79.3
3	22-Apr-15	107						69.7
4	27-Oct-15	156						53.1
5	4-Dec-15		129	98.1				
6	12-Apr-16	65.7	74.8	62.6				78.5
7	25-Oct-16	122	125	75				84.3
8	10-Apr-17	96.6	105	75.2	75.2	89.2	25	84.6
9	18-Oct-17	130	116	76	88.1	161	26.4	63.4
10	8-May-18	106	123	88.6	86.7	181	30.4	59.9
11	31-Oct-18	159	158	89.5	140	230	39	54.3
12	23-Apr-19	133	195	89.9	149	232	33.9	80.6
13	15-Oct-19	82.4	130	84.1	107	192	30.5	65
14	14-Apr-20	81.1	102	55.7	67.9	130	26.2	59.9
15	19-Oct-20	87.5	124	69.3	80.2	144	26.3	53.1
16	13-Apr-21	80.7	110	53.3	87.7	92.2	16.6	54.8
17	19-Oct-21	89.9	115	52.4	85.9	137	14.3	47.4
18	13-Apr-22	81.8	96.1	52.1	68.4	126	18.7	50.5
19	27-Oct-22	92.9	90.1	60.3	67.4	115	22	68.2
20	25-Apr-23		101		90.4	134	25.3	29.2
21	8-Nov-23	79.3	63.3	42.3	53.2	128	19.1	35.5
22								
23								
24								
25								
Coefficient of Variation:		0.27	0.26	0.24	0.30	0.30	0.27	0.25
Mann-Kendall Statistic (S):		-61	-48	-58	-29	-25	-35	-100
Confidence Factor:		98.3%	97.4%	99.6%	93.7%	90.4%	96.9%	100.0%
Concentration Trend:		Decreasing	Decreasing	Decreasing	Prob. Decreasing	Prob. Decreasing	Decreasing	Decreasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

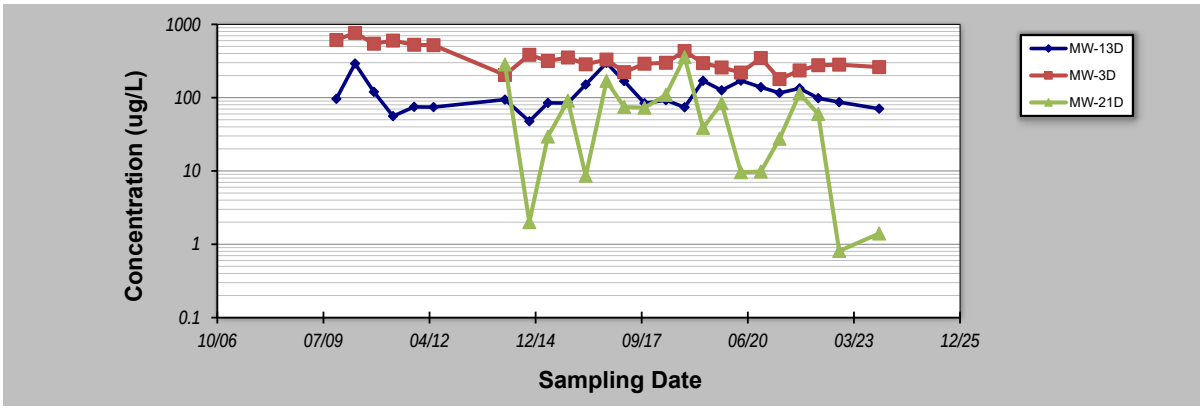
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GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 8-Feb-24
Facility Name: Delavan
Conducted By: CDF

Job ID: Fall 2023 Semi-Annual
Constituent: PCE
Concentration Units: ug/L

Sampling Point ID:	MW-13D	MW-3D	MW-21D				
Sampling Event	Sampling Date	PCE CONCENTRATION (ug/L)						
1	5-Nov-09	96.4	612					
2	30-Apr-10	292	764					
3	25-Oct-10	120	544					
4	23-Apr-11	56	600					
5	8-Nov-11	74.9	526					
6	9-May-12	74.3	520					
7	13-Mar-14	94.1	204	283				
8	29-Oct-14	47.6	384	2				
9	22-Apr-15	84.8	316	29.4				
10	27-Oct-15	84.5	353	90.8				
11	12-Apr-16	151	285	8.6				
12	25-Oct-16	298	331	169				
13	10-Apr-17	168	223	74.6				
14	18-Oct-17	84	290	72.9				
15	8-May-18	92.5	299	109				
16	31-Oct-18	73.9	432	357				
17	23-Apr-19	170	296	38.7				
18	15-Oct-19	126	258	83.8				
19	14-Apr-20	171	220	9.6				
20	19-Oct-20	139	347	9.8				
21	13-Apr-21	116	179	27.5				
22	19-Oct-21	134	235	114				
23	13-Apr-22	98.4	277	59.9				
24	27-Oct-22	86.9	282	0.81				
25	8-Nov-23	70.6	261	1.4				
26								
27								
28								
29								
30								
Coefficient of Variation:		0.53	0.42	1.19				
Mann-Kendall Statistic (S):		18	-166	-37				
Confidence Factor:		65.3%	>99.9%	89.5%				
Concentration Trend:		No Trend	Decreasing	No Trend				



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

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Appendix F

SVE System Monitoring Data Tables

TABLE 1: WELL CONSTRUCTION DETAILS

Facility Name: Delavan Spray Technologies Site
4334 Main Hwy
Bamberg, SC 29003

Well ID	Orientation	Well Diameter (in)	Average Screen Depth (ft bgs)	Total Well Length (ft)	Screen Interval (ft)
SVE-1	Horizontal	4	5.88	200	50 - 200
SVE-2	Horizontal	4	5.99	200	50 - 200
SVE-3	Horizontal	4	6.04	200	50 - 200
SVE-4	Horizontal	4	6.36	204	54 - 204
SVE-5	Horizontal	4	7.34	205	55 - 205
SVE-6	Horizontal	4	6.23	200	50 - 200
SVE-7	Horizontal	4	5.91	120	50 - 120

Notes:
in = inches
ft = feet
bgs = below ground surface
SVE = soil vapor extraction

TABLE 2: SVE SYSTEM VISIT SUMMARY

Facility Name: Delavan Spray Technologies Site
4334 Main Hwy
Bamberg, SC 29003

Date	Type	System Maintenance Description
6/15/2022	Startup	System Startup (day-1). Collected influent/effluent air samples.
6/16/2022	Startup	System Startup (day-1). Collected influent/effluent samples.
7/6/2022	O&M	Routine system inspection. Blower and pump hour meters not working.
7/13/2022	Alarm Response	System down due to MS tank high-high level. Pump y-strainer screen restricting flow. Screen removed. System restarted.
7/27/2022	O&M	Routine system inspection. Collected water sample from storage tank. **Collected effluent air sample.**
8/29/2022	O&M	Routine system inspection. Collected effluent air sample. Issue with VFD, won't control blower speed.
9/27/2022	O&M	Enviro-equipment onsite to install ambient thermostat and hi-temp alarm, install check-valve @ MS Tank transfer pump, replace surge supressor @ control panel, and investigate VFD control issue. **Collected effluent air sample.**
10/27/2022	O&M	Routine system inspection. Collected effluent air sample. Greased blower and motor. Added 1 Qt. of oil to blower. Evidence of wear at blower belt.
11/21/2022	O&M/Alarm Response	System down due to MS tank high-high level. Inline filter at flowmeter clogged with debris. Removed debris and cleaned filter. System restarted. **Collected effluent air sample.**
1/18/2023	System Restart	System down due to high-high level alarm at storage tank and MS tank. Condensate in storage tank and MS tank emptied and hauled off site (~550 gallons). SVE system restarted. Blower speed reduced (33hz to 30hz).
1/19/2023	O&M	Routine system inspection. **Collected effluent air sample.**
1/30/2023	System Restart	System down due to MS Tank high-high level alarm. Inline filter at flowmeter clogged with debris. Removed debris and filter. System restarted.
2/14/2023	System Restart	System down due to storage tank high-high level alarm. Installed two 330-gal totes inside treatment compound and transferred volume from storage tank and MS tank (approx. 575 gallons). MS pump flow totalizer = 1,293.77. Restarted system. Blower speed @ 25 Hz, Flow averaging 350 cfm, vacuum is 30-46 in-WC.
2/23/2023	O&M	Routine system inspection. Transferred storage tank volume to totes. Both totes completely full (approx. 660 gallons). **Collected effluent air sample**.
3/30/2023	O&M	Tradebe onsite to remove Condensate storage via vac-truck. 1,150 total gallons of condensate removed. TVSS depleted warning alarm on 3/23/23. **Collected effluent air sample.**
4/27/2023	O&M	Transferred storage tank concdensate and drum IDW into totes. One tote full at 330 gallons. Second tote paertially full at 210 gallons. **Collected effluent air sample.**
5/16/2023	O&M	Adjusted SVE blower speed from 25 Hz to 28 Hz. Unable to collect vacuum readings at sub-slab and vapor monitoring points due to dead batteries in manometer. **Collected effluent air sample.**
6/30/2023	O&M	Power outtage due to thunderstorms on 6/21/2023 @ 16:30, system restarted remotely. Routine system inspection. One condensate storage tote full at approx. 325. The second has approx. 215 gallons. **Collected effluent air sample**.
7/25/2023	O&M	Routine system inspection. First storage tote full, second storage tote with 215/330 gallons. **Collected effluent air sample.**
8/30/2023	System Shutdown	System shutdown remotely @ 07:30 due to heavy expected rains from Hurrican Idalia.
8/31/2023	System Restart	System restarted remotely @ 12:05.
9/5/2023	O&M	Routine system inspection. **Collected effluent air sample.**
9/27/2023	O&M	Routine system inspection. **Collected effluent air sample.**
10/26/2023	O&M	Completed SVE blower oil change (10,219 hours). Exhaust fan not operating properly, may require Enviro-Equipment to troubleshoot/replace. **Collected effluent air sample.**
11/14/2023	System Restart	System down due to "high high" level alarm at Moisture Separator Tank. Cleaned and flushed discharge piping, tested float switches, and restarted system. Also, adjusted SVE blower speed from 32Hz to 30Hz to reduce water production. Condensate tank has17" of water and totes are 5/6 full.
11/28/2023	O&M	Routine system inspection. **Collected effluent air sample.**
12/21/2023	O&M	System down due to storage tank/MS tank high-high level alarms. Tradebe onsite to remove condensate storage via vac-truck. Approximately 1,100 gallons removed. Routine system inspection. **Collected effluent air sample.**
1/11/2024	System Restart	System down due to storage tank/MS tank high-high level alarms. Transferred volume to storage totes. Restarted the system and adjusted blower speed from 30 Hz to 26 Hz to reduce water intake.
1/29/2024	O&M	Routine system inspection. Transferred condensate volume to storage totes, both 330-gal totes are now full. **Collected effluent air sample.**

Notes:
SVE = Soil vapor extraction
O&M = Operation and maintenance

TABLE 3: SVE SYSTEM PERFORMANCE SUMMARY

Facility Name: Delavan Spray Technologies Site
4334 Main Hwy
Bamberg, SC 29003

Startup Date: 6/15/2022

			SVE Blower												Moisture Separation				System Runtime					
Site Visit Date	Days Between Inspections	Days Since Startup	Blower Hour Meter B-100	Daily Designed Runtime (hours/day)	VFD Amps	Blower Speed (Hz)	HMI Blower Vacuum Reading VT-120 (in-WC)	Vacuum at Blower VI-103 (in-Hg)	Vacuum at Particulate Filter VI-102 (in-Hg)	Vacuum at MS VI-101 (in-Hg)	Dilution Air Valve Open (%)	Influent Temperature TI-101 (degrees F)	Discharge Temperature TI-102 (degrees F)	Discharge Flow FIT-100 (CFM)	Discharge Pressure (in-WC)	MS Pump Hours P-200	MS Pump Totalizer FT-200 (gallons)	MS Tank Level (in) High = 27.5 in	Storage Tank Level (in) High = 54.5 in	Period Hours of Operation	Cumulative Hours of Operation	Scheduled Downtime (hours)	Period Runtime (%)	Cumulative Runtime (%)	Process Status
06/15/22			610.6	24	--	32	45	6.5	5	--	0	80	105	423.5	3	0	146	--	--	0	0	0	--	--	2
06/16/22	1	1	610.6	24	--	32	47	4.5	3	2.5	0	80	105	427.5	3	0	231	--	--	24.0	24.0	0	100.0%	100.0%	1
07/06/22	20	21	610.6	24	22.8	32	51.4	5.5	4.4	3.3	0	80	106	426.6	1.5	0	231	22.5	10	480.0	504.0	0	100.0%	100.0%	1
07/13/22	7	28	--	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20	--	--	0	--	--	2
07/27/22	14	42	943.2	24	32.93	33	51.9	5.5	4.5	3.5	0	83	107	477.5	1.282	4.1	--	18.5	29	332.6	836.6	0	99.0%	83.0%	1
08/29/22	33	75	1,733.4	24		33	52.9	3.5	3.2	2	0	74	103	448.8	1.0	4.1	384.66	7.75	29	790.2	1626.8	0	99.8%	90.4%	1
09/27/22	29	104	2,426.4	24	22.5	33	49	3.5	3.5	3	0	72	95	448	1.0	4.1	383.81	9.75	33.5	693.0	2319.8	0	99.6%	92.9%	1
10/27/22	30	134	3,113.0	24	22.4	33	48.9	4.0	3.5	3	0	68	95	423.3	1.0	4.1	383.81	18.25	33.25	686.6	3006.4	0	95.4%	93.5%	1
11/21/22	25	159	3,618.0	24	24	33	51.5	4.0	3.5	3	0	54	75	430	1.0	190.5	384.11	24.5	44	505.0	3511.4	0	84.2%	92.0%	2
01/18/23	58	217	3,915.7	24	23	33	49	4.0	3.5	3	0	56	85	452	1.0	190.9	659.23	29.5	64.5	297.7	3809.1	0	21.4%	73.1%	2
01/19/23	1	218	3,939.6	24	22.2	30	46.5	4.0	3.5	3	0	60	80	378	1.0	190.9	659.23	4.5	0	23.9	3833.0	0	99.6%	73.3%	1
02/23/23	35	253	4,402.7	24	21.5	25	40.5	3.1	3..1	2.5	0	63	85	335	1.9	203.1	1336.78	10	8.25	463.1	4296.1	0	55.1%	70.8%	1
03/30/23	35	288	5,239.5	24	21	25	39.5	3.0	3	2.4	0	62	81	340	0.6	203.3	1747.48	6	60	836.8	5132.9	0	99.6%	74.3%	1
04/27/23	28	316	5,913.2	24	20.9	25	40.15	3.0	3	2.5	0	67	95	334.5	1.9	213.4	2151.47	7.5	0	673.7	5806.6	0	100.3%	76.6%	1
05/16/23	19	335	6,368.6	24	21.4	28	39	3.0	3	2.5	0	76	97	367.5	0.8	213.4	2151.37	8	2	455.4	6262.0	0	99.9%	77.9%	1
06/30/23	45	380	7,447.2	24	29.91	30	50	3.8	3.5	3	0	74	101	380	2.5	213.4	2215.56	18	15	1078.6	7340.6	0	99.9%	80.5%	1
07/25/23	25	405	8,048.7	24	29.94	30	46.7	3.5	3.4	3	0	80	105	400.2	2.6	213.4	2215.56	0	18	601.5	7942.1	0	100.3%	81.7%	1
09/05/23	42	447	9,020.3	24	30.9	31	52	3.6	3.5	3	0	76	100	417	2.3	213.4	2215.56	0	16	971.6	8913.7	29	99.2%	83.4%	1
09/27/23	22	469	9,547.7	24	31.9	32	53.7	4.0	3.7	3	0	72	100	453	2.8	213.4	2215.56	0	18	527.4	9441.1	0	99.9%	84.1%	1
10/26/23	29	498	10,238.3	24	31.9	32	53	3.9	3.5	3	0	67	93	456	2.9	213.4	2215.56	0	18	690.6	10131.7	0	99.2%	85.0%	1
11/28/23	33	531	10,990.1	24	29.91	30	49.5	3.7	3.5	3	0	60	84	400.3	2.6	245.4	2344.24	25.5	27.5	751.8	10883.5	0	94.9%	85.6%	1
12/21/23	23	554	11,449.5	24	29.91	30	44.9	4.0	3.5	3	0	48	70	401	0.9	252.2	2679.13	0	0	459.4	11342.9	0	83.2%	85.5%	2
01/29/24	39	593	12,360.5	24	25.93	26	41.5	3.3	3.2	2.5	0	60	80	349.5	2.0	252.7	3566.42	4	0	911.0	12253.9	0	97.3%	86.3%	1

Notes:

SVE = Soil vapor extraction
VFD = variable frequency drive
Hz = Hertz
in-WC = inches of water column
in-Hg = inches of mercury
F = Fahrenheit
CFM = cubic feet per minute
HMI = human-machine interface
MS = moisture seperator

Process Status Codes

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

TABLE 4: SVE WELL MONITORING DATA

Facility Name: Delavan Spray Technologies Site
4334 Main Hwy
Bamberg, SC 29003

WELL ID	SVE-1	SVE-2	SVE-3	SVE-4	SVE-5	SVE-6	SVE-7
DIAMETER (in)	4	4	4	4	4	4	4
WELL LENGTH (ft)	200	200	200	204	205	200	120
SCREEN INTERVAL (ft)	50 - 200	50 - 200	50 - 200	54 - 204	55 - 205	50 - 200	50 - 120

Date	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID	Vacuum	PID
6/15/2022	4.0	7.0	5.0	10.7	4.0	11.1	4.0	6.0	4.5	28.3	4.5	7.1	4.5	6.2
6/16/2022	2.5	--	2.5	--	2.5	--	2.5	--	3.0	--	3.0	--	2.75	--
7/6/2022	3.3	1.1	4.5	6.7	3.8	57.9	3.5	0.0	3.5	7.2	3.7	0.5	3.4	10.6
7/13/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/27/2022	3.0	3.2	4.5	1.2	3.5	1.1	3.5	1.2	4.0	2.6	4.0	0.9	4.0	0.6
8/29/2022	2.0	6.7	2.9	15.9	2.5	32.8	2.4	14.1	2.3	37.1	2.5	8.4	2.5	17.5
9/27/2022	2.0	--	2.5	--	2.5	--	3.0	--	2.8	--	2.5	--	3.0	--
10/27/2022	2.0	--	2.5	--	2.5	--	2.5	--	3.0	--	2.5	--	3.0	--
11/21/2022	2.5	1.1	3.0	0.9	3.0	0.3	2.5	0.1	3.0	1.5	3.0	0.0	3.0	0.3
1/18/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/19/2023	2.5	--	2.5	--	3.0	--	3.0	--	3.0	--	2.5	--	3.0	--
2/23/2023	2.0	--	2.4	--	2.4	--	2.5	--	2.5	--	2.2	--	2.5	--
3/30/2023	2.0	--	2.5	--	2.5	--	2.6	--	2.5	--	2.3	--	2.7	--
4/27/2023	2.0	--	2.4	--	2.5	--	2.5	--	2.5	--	2.2	--	2.5	--
5/16/2023	1.5	--	2.2	--	2.5	--	2.5	--	2.3	--	2.0	--	2.4	--
6/30/2023	2.3	--	2.7	--	3.0	--	3.0	--	2.9	--	2.6	--	3.0	--
7/25/2023	2.1	--	2.5	--	2.8	--	2.5	--	2.7	--	2.6	--	2.9	--
9/5/2023	2.3	--	2.9	--	3.1	--	3.0	--	2.9	--	2.8	--	2.9	--
9/27/2023	2.5	--	2.8	--	3.0	--	3.0	--	3.0	--	2.7	--	2.9	--
10/26/2023	2.3	--	2.6	--	2.9	--	2.5	--	2.9	--	2.6	--	2.9	--
11/28/2023	2.2	--	2.6	--	3.0	--	3.0	--	2.9	--	2.7	--	3.0	--
12/21/2023	2.5	--	3.0	--	3.0	--	3.0	--	3.0	--	3.0	--	3.0	--
1/29/2024	2.1	--	2.4	--	2.7	--	2.7	--	2.6	--	2.5	--	2.6	--

Notes:
Vacuum = inches of mercury (Hg)
PID = total VOC concentration in parts per million via photo-ionization detector
in = inches
ft = feet
-- = not measured

TABLE 5: SVE SYSTEM ANALYTICAL SUMMARY

Facility Name: Delavan Spray Technologies Site
4334 Main Hwy
Bamberg, SC 29003

Sample		Cumulative Operating Hours	Air Flowrate (CFM)	Acetone (2-Propanone)	Benzene	Bromomethane	Carbon Disulfide	Chloromethane	Cyclohexane	1,2-Dibromoethane (EDB)	1,1-Dichloroethylene	trans-1,2-Dichloroethylene	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	m-Dichlorobenzene	Ethanol	Ethylbenzene	Ethyl Acetate	4-Ethyltoluene	Heptane	Hexachlorobutadiene	Hexane	2-Hexanone	Isopropyl Alcohol	Methylene Chloride	Methyl ethyl ketone	Methyl isobutyl ketone	Propylene	Styrene	1,1,1,1-Trichloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	Tertiary Butyl Alcohol	Tetrachloroethylene	Tetrahydrofuran	Toluene	Trichloroethylene	Trichlorofluoromethane	Vinyl Acetate	m,p-Xylene	o-Xylene	Xylenes (total)	Mass Removal Rate (lbs/day)	Mass Removed (lbs)	Total Mass Removed (lbs)
Location	Date																																															
Effluent	06/15/22	0.0	423.5	118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	18	47.5	ND	ND	ND	152	ND	ND	ND	ND	ND	34,300	1,150	22	27	ND	ND	ND	ND	ND	ND	1.361	0.681	0.681
	06/16/22	24.0	427.5	128	315	ND	ND	ND	9.6	ND	8.3	8.3	12	ND	ND	58	105	28	29	21	ND	7.8	ND	12	18	75.8	ND	10	ND	43	ND	70.8	25	14	ND	13,000	98.5	381	32	ND	ND	426	144	569	0.600	0.300	0.981
	07/27/22	836.6	477.5	114	540	ND	ND	2.7	ND	ND	ND	ND	3.8	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	117	5.9	11	ND	ND	ND	7.1	ND	ND	ND	ND	ND	2,710	4.4	5.3	5.1	6.7	ND	ND	ND	ND	0.152	5.143	6.123
	08/29/22	1,626.8	448.8	23	19	ND	ND	ND	ND	ND	ND	ND	5.6	2.4	ND	5.3	ND	33	ND	ND	ND	ND	ND	107	1.8	3.5	ND	ND	ND	7.6	ND	1.9	ND	ND	ND	1,970	3.2	6.4	11	5.6	ND	2.8	ND	2.8	0.089	2.930	9.054
	09/27/22	2,319.8	448.0	37.3	43.8	ND	ND	ND	ND	ND	ND	ND	4.4	1.8	ND	3.4	ND	13	ND	ND	ND	ND	ND	366	1.8	5.6	ND	ND	ND	5.5	ND	ND	ND	ND	ND	2,180	17	2.9	11	6.7	ND	3.1	2	5.2	0.109	3.144	12.197
	10/27/22	3,006.4	423.3	52.0	295	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND	ND	24	ND	39.8	ND	ND	ND	ND	ND	1580	ND	ND	ND	ND	ND	ND	ND	ND	177	ND	ND	ND	43	ND	43	ND	43	0.086	2.472	14.669
	11/21/22	3,511.4	430.0	14	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	15	ND	ND	ND	ND	ND	49.9	7.6	18	ND	ND	ND	7.6	ND	ND	ND	ND	ND	1,800	104	ND	14	5.5	ND	ND	ND	ND	0.080	1.677	16.346
	01/19/23	3,833.0	378.0	130	216	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	155	4.8	731	ND	4.9	ND	1.8	ND	17	ND	8.6	10	ND	ND	4.2	ND	ND	ND	ND	5.5	1,230	ND	26	7.0	2.8	15	13	4.3	18	0.088	1.184	17.530
	02/23/23	4,296.1	335.0	38.7	86.9	ND	ND	1.2	ND	ND	ND	ND	ND	2.2	ND	14	ND	32	ND	ND	ND	ND	ND	649	5.2	4.7	ND	ND	ND	ND	ND	ND	ND	ND	1.4	470	1.5	2.3	2.6	6.7	ND	2.6	ND	2.6	0.040	0.767	18.297
	03/30/23	5,132.9	340.0	31.1	46.3	ND	ND	1.1	ND	ND	ND	ND	2.2	2.1	ND	5.1	ND	24	ND	ND	8.9	ND	ND	131	ND	2.9	ND	ND	ND	2.5	ND	ND	ND	ND	ND	685	2	4.9	5.9	5	ND	3	ND	3	0.029	1.027	19.324
	04/27/23	5,806.6	334.5	26.6	43.1	ND	ND	ND	ND	ND	ND	ND	1.5	2.3	ND	6.0	ND	106	ND	ND	ND	1.9	ND	53.8	4.5	4.1	ND	5.0	ND	2.6	ND	ND	ND	5.6	ND	669	1.4	18	3.5	7.3	2.9	ND	ND	ND	0.029	0.812	20.136
	05/16/23	6,262.0	367.5	13	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	40.9	ND	40.3	157	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	165	ND	ND	1.3	6.2	ND	ND	ND	ND	0.015	0.276	20.412
	06/30/23	7,340.6	380.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND	47.9	ND	ND	ND	8.1	ND	433	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,500	ND	ND	5.3	9.6	ND	ND	ND	ND	0.069	3.086	23.498
	07/25/23	7,942.1	400.2	20	3.2	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	3.8	ND	7.2	ND	ND	ND	1.9	ND	32.4	3.8	2.6	ND	ND	ND	2.5	ND	ND	ND	ND	ND	1,010	ND	ND	5.9	7.9	ND	ND	ND	ND	0.040	0.992	24.490
	09/05/23	8,913.7	417.0	11	8.6	ND	ND	ND	1.6	ND	ND	ND	3.6	2.2	ND	3.2	ND	4.7	ND	ND	ND	2.7	ND	40.1	4.2	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	1,040	ND	ND	9.1	9.6	ND	ND	ND	ND	0.043	1.731	26.222
	10/26/23	10,131.7	456.0	39.4	1.9	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	5.5	ND	9.4	ND	ND	ND	1.7	ND	94.1	3.4	3.5	ND	ND	ND	2.5	ND	ND	ND	ND	2.3	929	ND	1.6	7.5	6.7	ND	ND	ND	ND	0.045	2.306	28.528
	11/28/23	10,883.5	400.3	25.9	107	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	7.9	ND	12	ND	ND	ND	2.6	ND	76.7	3.1	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	773	ND	12	5.9	4.4	ND	3	ND	3	0.037	1.173	29.701
	12/21/23	11,342.9	401.0	44.2	23	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	10	ND	26	ND	ND	ND	ND	ND	718	1.8	2.1	ND	ND	ND	3.4	ND	ND	ND	ND	ND	1,510	ND	1.7	7	5.1	ND	ND	ND	ND	0.085	1.620	31.321
	01/29/24	12,253.9	349.5	26.1	82.1	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	4.5	ND	16	ND	ND	ND	ND	ND	84.6	ND	4.7	ND	ND	ND	2.2	ND	ND	ND	ND	ND	712	ND	ND	5.9	6.2	ND	ND	ND	ND	0.030	1.126	32.447

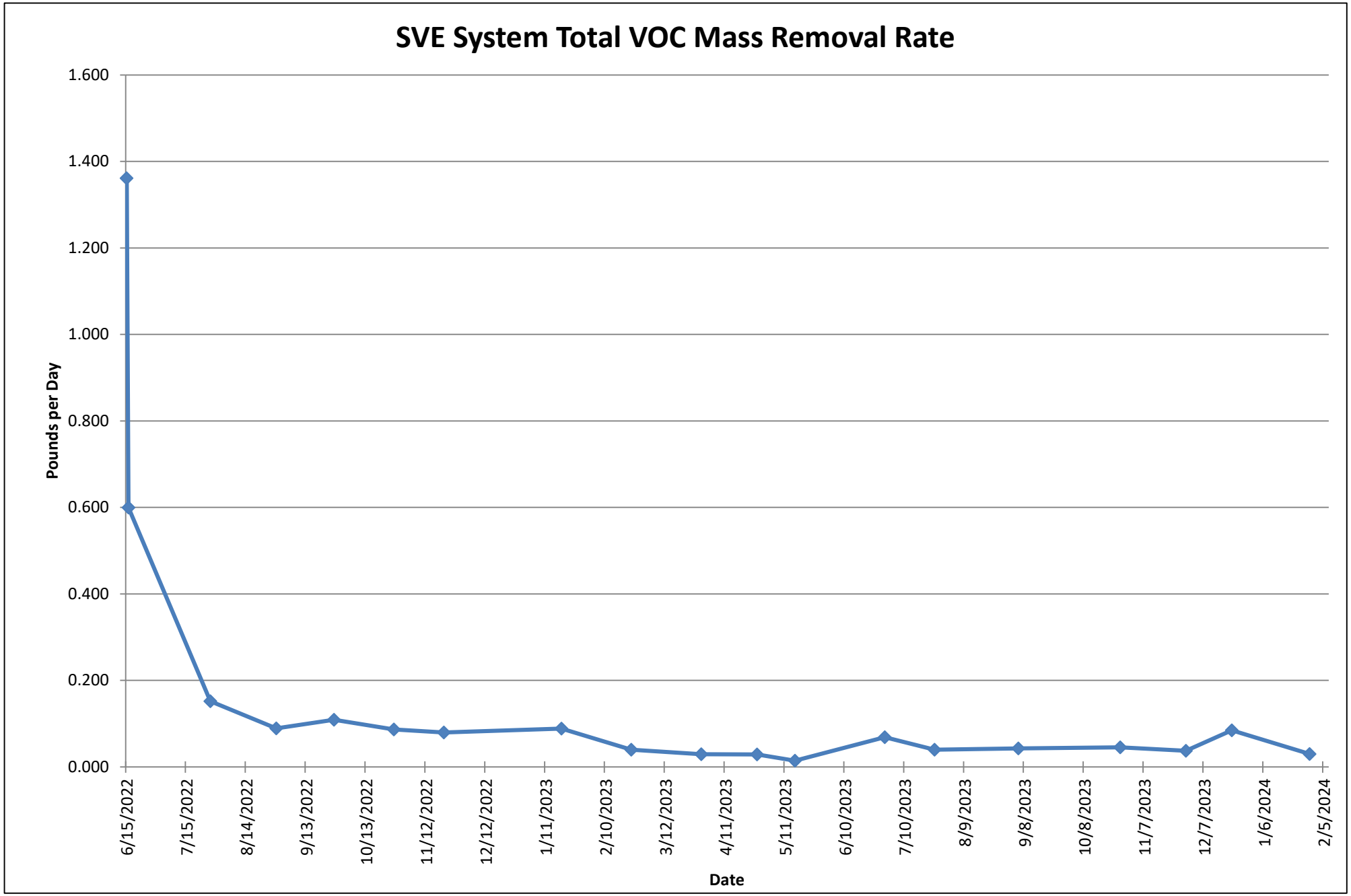
Notes:
Only numerical values for detections are shown. See laboratory analytical reports for all data qualifiers and their definitions.
ND = Non-detect
Analytical Results = ug/m^3
ug/m^3 = Micrograms per cubic meter
lbs = Pounds
lbs/day = Pounds per day
CFM = cubic feet per minute

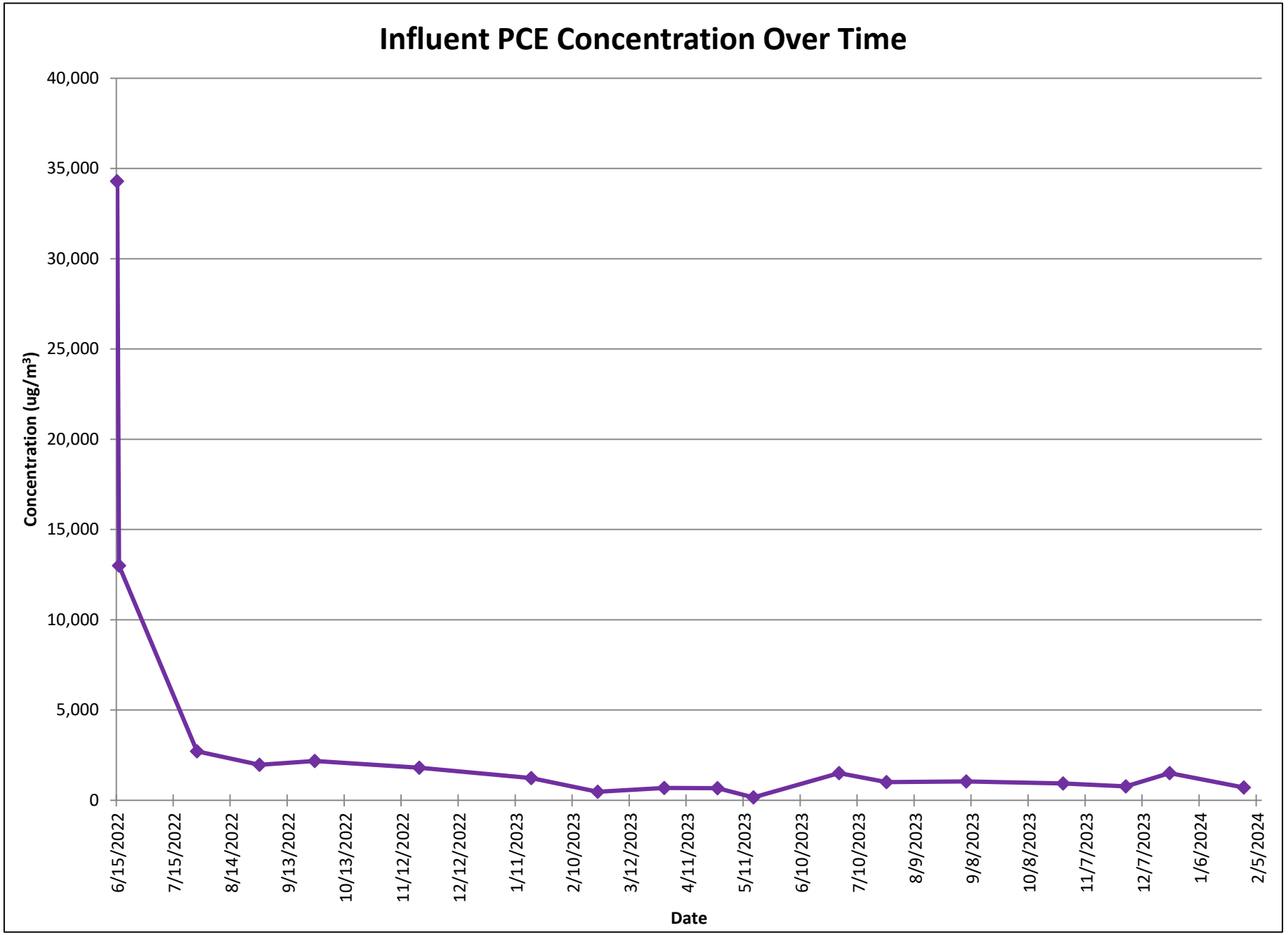
TABLE 6: VAPOR MONITORING POINT DATA

Facility Name: Delavan Spray Technologies Site
4334 Main Hwy
Bamberg, SC 29003

POINT ID	VMP-1	VMP-2	VMP-3	VMP-4	VMP-5	VMP-6	SSV-1	SSV-2	SSV-3	SSV-4	SSV-5	SSV-6
Date	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**	**Vacuum**
9/8/2021	10.5	3.2	1.4	1.1	0.66	0.446	--	0.149	--	--	0.3	0.326
6/15/2022	13.5	4.7	3.5	3.2	1.5	0.9	--	0.3	--	--	4.4	3.1
6/16/2022	13.6	4.8	3.7	3.5	1.8	1.0	--	0.326	--	--	4.4	3.5
7/6/2022	5.653	--	3.9	3.9	2.0	1.2	--	--	--	--	5.021	3.855
7/13/2022	--	--	--	--	--	--	--	--	--	--	--	--
7/27/2022	--	--	--	--	--	--	--	--	--	--	--	--
8/29/2022	5.583	5.409	4.075	4.083	2.010	1.168	0.274	0.333	1.313	3.689	5.460	4.055
9/27/2022	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2022	--	--	--	--	--	--	--	--	--	--	--	--
11/21/2022	13.40	5.27	3.60	3.62	1.77	1.05	0.22	0.30	1.23	3.37	5.23	3.59
1/18/2023	--	--	--	--	--	--	--	--	--	--	--	--
1/19/2023	>3.365	>3.365	>3.365	>3.365	1.847	1.05	0.172	0.283	1.218	>3.365	>3.365	>3.365
2/23/2023	5.569	4.076	2.879	3.258	1.661	1.146	0.162	0.241	0.822	2.579	4.050	3.206
3/30/2023	5.426	4.654	3.211	3.59	1.498	1.502	0.254	0.283	0.911	2.736	4.109	3.535
4/27/2023	5.339	4.202	3.006	3.287	1.653	1.217	0.155	0.253	0.826	2.451	4.109	3.185
5/16/2023	--	--	--	--	--	--	--	--	--	--	--	--
6/30/2023	5.170	5.013	3.862	3.904	1.776	1.011	0.163	0.28	1.075	3.221	5.008	3.567
7/25/2023	5.217	5.193	4.003	4.120	2.067	1.038	0.256	0.311	1.197	3.441	5.261	4.013
9/5/2023	5.393	5.207	4.002	4.009	1.967	1.114	0.221	0.313	1.199	3.501	5.244	3.975
9/27/2023	5.512	5.376	4.010	4.026	2.004	1.150	0.269	0.325	1.302	3.633	5.429	4.008
10/26/2023	5.450	5.402	4.011	4.101	2.006	1.122	0.272	0.329	1.305	3.543	5.398	4.039
11/28/2023	5.281	5.064	3.776	3.923	1.844	1.009	0.227	0.291	1.150	3.463	5.168	3.917
12/21/2023	5.388	5.167	3.942	4.011	1.798	1.247	0.232	0.288	1.203	3.525	5.336	4.010
1/29/2024	4.992	4.91	3.383	3.867	1.429	0.955	0.154	0.185	1.004	3.071	5.017	3.821

Notes:
Vacuum = inches of water column (in-WC)
PID = total VOC concentration in parts per million via photo-ionization detector
in = inches
ft = feet
-- = not measured
N/A = not applicable


SVE System Total VOC Mass Removal Rate
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
Pounds per Day
6/15/2022
7/15/2022
8/14/2022
9/13/2022
10/13/2022
11/12/2022
12/12/2022
1/11/2023
2/10/2023
3/12/2023
4/11/2023
5/11/2023
6/10/2023
7/10/2023
8/9/2023
9/8/2023
10/8/2023
11/7/2023
12/7/2023
1/6/2024
2/5/2024
Date


Influent PCE Concentration Over Time
Concentration (ug/m³)
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
6/15/2022
7/15/2022
8/14/2022
9/13/2022
10/13/2022
11/12/2022
12/12/2022
1/11/2023
2/10/2023
3/12/2023
4/11/2023
5/11/2023
6/10/2023
7/10/2023
8/9/2023
9/8/2023
10/8/2023
11/7/2023
12/7/2023
1/6/2024
2/5/2024
Date

Appendix G

Laboratory Analytical Reports - SVE

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60663618

SGS Job Number: JD69907

Sampling Date: 07/25/23



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ross

Total number of pages in report: 37

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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EHS.US.CustomerCare@sgs.com

Sections: 1 2 3 4 5 6

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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD69907

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD69907-1	07/25/23	09:40	TD	07/26/23	AIR	Soil Vapor Comp.	SVE-EFF

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Raytheon Technologies Corporation	**Job No:**	JD69907
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	8/3/2023 5:21:30 AM

On 07/26/2023, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS). The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD69907 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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 TO-15

Matrix: AIR **Batch ID:** V7W107

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD69700-7DUP were used as the QC samples indicated.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's 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 is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD69907
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 07/25/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD69907-1	**SVE-EFF**					
Acetone (2-Propanone)		8.4	0.80	0.58	ppbv	TO-15
Benzene		1.0	0.80	0.58	ppbv	TO-15
cis-1,2-Dichloroethylene		0.45 J	0.80	0.12	ppbv	TO-15
Ethanol		2.0	2.0	1.6	ppbv	TO-15
Ethyl Acetate		2.0	0.80	0.42	ppbv	TO-15
Hexane		0.54 J	0.80	0.21	ppbv	TO-15
Isopropyl Alcohol		13.2	0.80	0.56	ppbv	TO-15
Methylene chloride		1.1	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone		0.88	0.80	0.44	ppbv	TO-15
1,1,1-Trichloroethane		0.45 J	0.80	0.15	ppbv	TO-15
Tetrachloroethylene		149	0.16	0.056	ppbv	TO-15
Trichloroethylene		1.1	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		1.4	0.80	0.62	ppbv	TO-15
Acetone (2-Propanone)		20	1.9	1.4	ug/m3	TO-15
Benzene		3.2	2.6	1.9	ug/m3	TO-15
cis-1,2-Dichloroethylene		1.8 J	3.2	0.48	ug/m3	TO-15
Ethanol		3.8	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		7.2	2.9	1.5	ug/m3	TO-15
Hexane		1.9 J	2.8	0.74	ug/m3	TO-15
Isopropyl Alcohol		32.4	2.0	1.4	ug/m3	TO-15
Methylene chloride		3.8	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone		2.6	2.4	1.3	ug/m3	TO-15
1,1,1-Trichloroethane		2.5 J	4.4	0.82	ug/m3	TO-15
Tetrachloroethylene		1010	1.1	0.38	ug/m3	TO-15
Trichloroethylene		5.9	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		7.9	4.5	3.5	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD69907-1 **Date Sampled:** 07/25/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A2234 **Date Received:** 07/26/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W02622.D	1	07/30/23 02:43	TS	n/a	n/a	V7W107
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	8.4	0.80	0.58	ppbv		20	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	1.0	0.80	0.58	ppbv		3.2	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.45	0.80	0.12	ppbv	J	1.8	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD69907-1 **Date Sampled:** 07/25/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A2234 **Date Received:** 07/26/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.0	2.0	1.6	ppbv		3.8	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	2.0	0.80	0.42	ppbv		7.2	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	0.54	0.80	0.21	ppbv	J	1.9	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	13.2	0.80	0.56	ppbv		32.4	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	1.1	0.80	0.22	ppbv		3.8	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.88	0.80	0.44	ppbv		2.6	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.45	0.80	0.15	ppbv	J	2.5	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	149	0.16	0.056	ppbv		1010	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.1	0.16	0.076	ppbv		5.9	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.4	0.80	0.62	ppbv		7.9	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking # 5894 7375 5824
Bottle Order Control # 623169
SGS Quote #
SGS Job # JD69907

Client / Reporting Information	Project Information	Weather Parameters
Company Name: AECOM	Project Name: Delavan SVE	Temperature (Fahrenheit) Start: 79°F Maximum:
Address: 5438 Wade Park Blvd.	Street: 4834 Main Hwy.	Stop: 79°F Minimum:
City: Raleigh State: NC Zip: 27607	City: Bamberg State: SC	Atmoshpheric Pressure (inches of Hg) Start: 30.12 Maximum:
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com	Project #:	Stop: 30.12 Minimum:
Phone #: 919-461-1100	Client Purchase Order #	Other weather comment:
Sampler(s) Name(s): Tim DicKey		

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Sampling Equipment Info: Canister Size 6L or 1L	Sampling Equipment Info: Flow Controller Serial #	Start Sampling Information: Date	Start: Time (24hr clock)	Start: Canister Pressure ("Hg)	Start: Interior Temp (F)	Start: Sampler Init.	Stop Sampling Information: Date	Stop: Time (24hr clock)	Stop: Canister Pressure ("Hg)	Stop: Interior Temp (F)	Stop: Sampler Init.	Requested Analysis: VTO 15
1	SVE-EFF	SV	NR	12284	1L	FC1237	7/25/23	0935	29	—	TD	7/25/23	0940	0	—	TD	X

Turnaround Time (Business days)

- [X] 15 Business Days
- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days *
- [ ] 2 Business Days *
- [ ] 1 Business Day *
- [ ] Other

Approved By:
Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B
- Reduced T2
- Full T1
- Other:
- DKQP reporting

Comments / Remarks

Initial Assessment 3BEC
Label Verification
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		7/19/23 8:53	Tim DicKey / AECOM	Tim DicKey/AECOM	7/25/23-1200	FedEX
2	Relinquished by: FX	Date / Time: 7/26/23 10:30	Received By:	Relinquished By:	Date / Time:	Received By:
3	Relinquished by:	Date / Time:	Received By:	Custody Seal #		
4						
5						

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

SGS Sample Receipt Summary

Job Number: JD69907 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNOL

Date / Time Received: 7/26/2023 10:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD69907: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 07/26/23

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A2234	1.4	29.5	07/17/23	TC	CP12336	8W01157.D	JD69907-1	07/26/23	DG	1			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1237	07/17/23	TC	185	.0833	07/26/23	ML	186	0.5	Flow Controller

SGS Bottle Order(s):
BW-07623-164

Prep Date	Room Temp(F)	Bar Pres "Hg
07/17/23	70	29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W107-MB	7W02600.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W107-MB	7W02600.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W107-MB	7W02600.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	65-128%

Method Blank Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-MB	8W01133.D	1	07/05/23	TCH	n/a	n/a	V8W46

The QC reported here applies to the following samples: **Method:** TO-15

V8W46-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-MB	8W01133.D	1	07/05/23	TCH	n/a	n/a	V8W46

The QC reported here applies to the following samples: **Method:** TO-15

V8W46-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-MB	8W01133.D	1	07/05/23	TCH	n/a	n/a	V8W46

The QC reported here applies to the following samples: **Method:** TO-15

V8W46-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.72	2.6	ppbv	J
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W107-BS	7W02597.D	1	07/29/23	TS	n/a	n/a	V7W107
V7W107-BSD	7W02598.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.7	77	7.8	78	1	70-130/30
106-99-0	1,3-Butadiene	10	8.4	84	8.4	84	0	70-130/30
71-43-2	Benzene	10	8.6	86	8.7	87	1	70-130/30
75-27-4	Bromodichloromethane	10	9.3	93	9.5	95	2	70-130/30
75-25-2	Bromoform	10	9.5	95	9.5	95	0	70-130/30
74-83-9	Bromomethane	10	8.7	87	8.8	88	1	70-130/30
593-60-2	Bromoethene	10	8.7	87	8.7	87	0	70-130/30
100-44-7	Benzyl Chloride	10	8.1	81	8.0	80	1	70-130/30
75-15-0	Carbon disulfide	10	8.3	83	8.7	87	5	70-130/30
108-90-7	Chlorobenzene	10	9.2	92	9.1	91	1	70-130/30
75-00-3	Chloroethane	10	8.4	84	8.6	86	2	70-130/30
67-66-3	Chloroform	10	9.0	90	9.0	90	0	70-130/30
74-87-3	Chloromethane	10	8.5	85	8.5	85	0	70-130/30
107-05-1	3-Chloropropene	10	8.4	84	9.0	90	7	70-130/30
95-49-8	2-Chlorotoluene	10	9.1	91	9.1	91	0	70-130/30
56-23-5	Carbon tetrachloride	10	9.0	90	9.0	90	0	70-130/30
110-82-7	Cyclohexane	10	9.0	90	9.0	90	0	70-130/30
75-34-3	1,1-Dichloroethane	10	8.9	89	8.9	89	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.8	88	9.1	91	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.2	92	9.3	93	1	70-130/30
107-06-2	1,2-Dichloroethane	10	9.3	93	9.3	93	0	70-130/30
78-87-5	1,2-Dichloropropane	10	9.0	90	9.1	91	1	70-130/30
123-91-1	1,4-Dioxane	10	8.8	88	9.1	91	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.2	92	9.3	93	1	70-130/30
124-48-1	Dibromochloromethane	10	9.5	95	9.5	95	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.9	89	9.1	91	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.8	88	8.9	89	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.0	90	9.1	91	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10.0	100	9.9	99	1	70-130/30
95-50-1	o-Dichlorobenzene	10	9.7	97	9.6	96	1	70-130/30
106-46-7	p-Dichlorobenzene	10	10.3	103	10.2	102	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.1	91	9.1	91	0	70-130/30
64-17-5	Ethanol	10	7.5	75	7.6	76	1	70-130/30
100-41-4	Ethylbenzene	10	9.0	90	8.9	89	1	70-130/30
141-78-6	Ethyl Acetate	10	8.9	89	9.0	90	1	70-130/30
622-96-8	4-Ethyltoluene	10	9.9	99	9.8	98	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W107-BS	7W02597.D	1	07/29/23	TS	n/a	n/a	V7W107
V7W107-BSD	7W02598.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.6	86	9.0	90	5	70-130/30
76-14-2	Freon 114	10	8.8	88	8.9	89	1	70-130/30
142-82-5	Heptane	10	8.7	87	8.7	87	0	70-130/30
87-68-3	Hexachlorobutadiene	10	9.0	90	8.8	88	2	70-130/30
110-54-3	Hexane	10	8.8	88	8.8	88	0	70-130/30
591-78-6	2-Hexanone	10	8.7	87	8.9	89	2	70-130/30
67-63-0	Isopropyl Alcohol	10	8.0	80	8.2	82	2	70-130/30
75-09-2	Methylene chloride	10	8.5	85	8.9	89	5	70-130/30
78-93-3	Methyl ethyl ketone	10	9.1	91	8.9	89	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.7	87	9.0	90	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.7	87	8.7	87	0	70-130/30
80-62-6	Methylmethacrylate	10	8.9	89	9.0	90	1	70-130/30
115-07-1	Propylene	10	8.2	82	8.2	82	0	70-130/30
100-42-5	Styrene	10	9.2	92	9.1	91	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.9	89	9.0	90	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.4	94	9.3	93	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.1	91	9.3	93	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.0	100	9.5	95	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.7	97	9.6	96	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.4	94	9.4	94	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.0	90	9.0	90	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.3	83	8.5	85	2	70-130/30
127-18-4	Tetrachloroethylene	10	9.2	92	9.3	93	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.0	90	8.9	89	1	70-130/30
108-88-3	Toluene	10	8.9	89	8.9	89	0	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	9.4	94	2	70-130/30
75-69-4	Trichlorofluoromethane	10	9.2	92	9.4	94	2	70-130/30
75-01-4	Vinyl chloride	10	9.0	90	8.9	89	1	70-130/30
108-05-4	Vinyl Acetate	10	8.7	87	8.7	87	0	70-130/30
	m,p-Xylene	20	18.3	92	18.1	91	1	70-130/30
95-47-6	o-Xylene	10	9.3	93	9.2	92	1	70-130/30
1330-20-7	Xylenes (total)	30	27.6	92	27.2	91	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W107-BS	7W02597.D	1	07/29/23	TS	n/a	n/a	V7W107
V7W107-BSD	7W02598.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	105%	105%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-BS	8W01130.D	1	07/05/23	TCH	n/a	n/a	V8W46
V8W46-BSD	8W01131.D	1	07/05/23	TCH	n/a	n/a	V8W46

The QC reported here applies to the following samples: **Method:** TO-15

V8W46-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10	100	10.4	104	4	70-130/30
106-99-0	1,3-Butadiene	10	11.1	111	11.4	114	3	70-130/30
71-43-2	Benzene	10	10.0	100	10.2	102	2	70-130/30
75-27-4	Bromodichloromethane	10	10.8	108	11.0	110	2	70-130/30
75-25-2	Bromoform	10	10.3	103	10.6	106	3	70-130/30
74-83-9	Bromomethane	10	10	100	10.1	101	1	70-130/30
593-60-2	Bromoethene	10	10.2	102	10.4	104	2	70-130/30
100-44-7	Benzyl Chloride	10	9.6	96	9.8	98	2	70-130/30
75-15-0	Carbon disulfide	10	11.8	118	12.2	122	3	70-130/30
108-90-7	Chlorobenzene	10	10.0	100	10.2	102	2	70-130/30
75-00-3	Chloroethane	10	10.1	101	10.4	104	3	70-130/30
67-66-3	Chloroform	10	10.1	101	10.3	103	2	70-130/30
74-87-3	Chloromethane	10	10.8	108	11.1	111	3	70-130/30
107-05-1	3-Chloropropene	10	10.7	107	11.0	110	3	70-130/30
95-49-8	2-Chlorotoluene	10	11.1	111	11.4	114	3	70-130/30
56-23-5	Carbon tetrachloride	10	10.9	109	11.1	111	2	70-130/30
110-82-7	Cyclohexane	10	10.9	109	11.1	111	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10.5	105	10.7	107	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	10.2	102	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.4	104	10.5	105	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.3	103	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.3	103	10.5	105	2	70-130/30
123-91-1	1,4-Dioxane	10	10	100	10.1	101	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.3	103	10.5	105	2	70-130/30
124-48-1	Dibromochloromethane	10	11.0	110	11.2	112	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	10.4	104	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.4	104	10.6	106	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.1	111	11.3	113	2	70-130/30
541-73-1	m-Dichlorobenzene	10	10.8	108	11.0	110	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.1	111	11.4	114	3	70-130/30
106-46-7	p-Dichlorobenzene	10	11.0	110	11.3	113	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.3	103	10.5	105	2	70-130/30
64-17-5	Ethanol	10	7.9	79	8.0	80	1	70-130/30
100-41-4	Ethylbenzene	10	11.1	111	11.3	113	2	70-130/30
141-78-6	Ethyl Acetate	10	11.0	110	11.1	111	1	70-130/30
622-96-8	4-Ethyltoluene	10	11.2	112	11.4	114	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-BS	8W01130.D	1	07/05/23	TCH	n/a	n/a	V8W46
V8W46-BSD	8W01131.D	1	07/05/23	TCH	n/a	n/a	V8W46

The QC reported here applies to the following samples: **Method:** TO-15

V8W46-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.2	102	10.4	104	2	70-130/30
76-14-2	Freon 114	10	10.4	104	10.6	106	2	70-130/30
142-82-5	Heptane	10	11.3	113	11.6	116	3	70-130/30
87-68-3	Hexachlorobutadiene	10	11.8	118	12.2	122	3	70-130/30
110-54-3	Hexane	10	9.5	95	9.7	97	2	70-130/30
591-78-6	2-Hexanone	10	11.2	112	11.4	114	2	70-130/30
67-63-0	Isopropyl Alcohol	10	9.5	95	9.6	96	1	70-130/30
75-09-2	Methylene chloride	10	10.3	103	10.2	102	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10.3	103	10.5	105	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.6	116	11.7	117	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.8	108	11.1	111	3	70-130/30
80-62-6	Methylmethacrylate	10	10.7	107	11.0	110	3	70-130/30
115-07-1	Propylene	10	10.4	104	10.6	106	2	70-130/30
100-42-5	Styrene	10	11.6	116	11.9	119	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.3	103	10.4	104	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.2	102	10.4	104	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.2	102	10.4	104	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.9	109	11.2	112	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.0	120	12.4	124	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.1	111	11.4	114	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.9	109	11.0	110	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.9	109	11.2	112	3	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10.4	104	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.7	107	10.7	107	0	70-130/30
108-88-3	Toluene	10	10.5	105	10.8	108	3	70-130/30
79-01-6	Trichloroethylene	10	10.3	103	10.4	104	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.8	98	10.0	100	2	70-130/30
75-01-4	Vinyl chloride	10	10.5	105	10.7	107	2	70-130/30
108-05-4	Vinyl Acetate	10	10.9	109	11.2	112	3	70-130/30
	m,p-Xylene	20	22.3	112	22.9	115	3	70-130/30
95-47-6	o-Xylene	10	11.2	112	11.5	115	3	70-130/30
1330-20-7	Xylenes (total)	30	33.5	112	34.3	114	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-BS	8W01130.D	1	07/05/23	TCH	n/a	n/a	V8W46
V8W46-BSD	8W01131.D	1	07/05/23	TCH	n/a	n/a	V8W46

The QC reported here applies to the following samples: **Method:** TO-15

V8W46-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD69700-7DUP	7W02607.D	1	07/29/23	TS	n/a	n/a	V7W107
JD69700-7	7W02606.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Compound	JD69700-7 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	16.7		15.8		6	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.73		0.68	J	7	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	12.0		12.1		1	25
100-41-4	Ethylbenzene	0.99		0.95		4	25
141-78-6	Ethyl Acetate	3.2		3.0		6	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD69700-7DUP	7W02607.D	1	07/29/23	TS	n/a	n/a	V7W107
JD69700-7	7W02606.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Compound	JD69700-7 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	ND		ND		nc	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	7.8		7.7		1	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	0.92		0.94	J	2	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	14.6		13.9		5	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	1.7		1.6		6	25
127-18-4	Tetrachloroethylene	5.0		4.8		4	25
109-99-9	Tetrahydrofuran	38.8		37.1		4	25
108-88-3	Toluene	0.85		0.85		0	25
79-01-6	Trichloroethylene	79.2		76.8		3	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	4.1		3.9		5	25
95-47-6	o-Xylene	1.3		1.3		0	25
1330-20-7	Xylenes (total)	5.4		5.2		4	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD69700-7DUP	7W02607.D	1	07/29/23	TS	n/a	n/a	V7W107
JD69700-7	7W02606.D	1	07/29/23	TS	n/a	n/a	V7W107

The QC reported here applies to the following samples: **Method:** TO-15

JD69907-1

CAS No.	Surrogate Recoveries	DUP	JD69700-7	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-SCC	8W01155.D	1	07/06/23	TCH	n/a	n/a	V8W46

The QC reported here (Summa A1236) applies to the following samples: **Method:** TO-15

Batch CP12336 cleaned 06/28/23: JD69907-1(A2234)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-SCC	8W01155.D	1	07/06/23	TCH	n/a	n/a	V8W46

The QC reported here (Summa A1236) applies to the following samples: **Method:** TO-15

Batch CP12336 cleaned 06/28/23: JD69907-1(A2234)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W46-SCC	8W01155.D	1	07/06/23	TCH	n/a	n/a	V8W46

The QC reported here (Summa A1236) applies to the following samples: **Method:** TO-15

Batch CP12336 cleaned 06/28/23: JD69907-1(A2234)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Instrument Performance Check (BFB)

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V7W93-BFB	**Injection Date:**	07/08/23
Lab File ID:	7W02198.D	**Injection Time:**	17:41
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11015	24.1		Pass
75	30.0 - 66.0% of mass 95	22312	48.7		Pass
95	Base peak, 100% relative abundance	45792	100.0		Pass
96	5.0 - 9.0% of mass 95	3000	6.55		Pass
173	Less than 2.0% of mass 174	85	0.19	(0.27) [a]	Pass
174	50.0 - 120.0% of mass 95	31408	68.6		Pass
175	4.0 - 9.01% of mass 174	2126	4.64	(6.77) [a]	Pass
176	93.0 - 101.0% of mass 174	29403	64.2	(93.6) [a]	Pass
177	5.0 - 9.0% of mass 176	1813	3.96	(6.17) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W93-IC0093	7W02199.D	07/08/23	18:14	00:33	Initial cal 0.04
V7W93-IC0093	7W02200.D	07/08/23	18:47	01:06	Initial cal 0.10
V7W93-IC0093	7W02201.D	07/08/23	19:21	01:40	Initial cal 0.20
V7W93-IC0093	7W02202.D	07/08/23	19:58	02:17	Initial cal 0.50
V7W93-IC0093	7W02204.D	07/08/23	21:03	03:22	Initial cal 5
V7W93-ICC0093	7W02205.D	07/08/23	21:38	03:57	Initial cal 10
V7W93-IC0093	7W02206.D	07/08/23	22:14	04:33	Initial cal 20
V7W93-IC0093	7W02207.D	07/08/23	22:54	05:13	Initial cal 40
V7W93-IC0093	7W02208.D	07/08/23	23:35	05:54	Initial cal 50
V7W93-ICV0093	7W02211.D	07/09/23	01:18	07:37	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W107-BFB
Lab File ID: 7W02595.D
Instrument ID: GCMS7W
Injection Date: 07/29/23
Injection Time: 09:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12914	24.6		Pass
75	30.0 - 66.0% of mass 95	25408	48.4		Pass
95	Base peak, 100% relative abundance	52496	100.0		Pass
96	5.0 - 9.0% of mass 95	3693	7.03		Pass
173	Less than 2.0% of mass 174	314	0.60	(0.92) [a]	Pass
174	50.0 - 120.0% of mass 95	33968	64.7		Pass
175	4.0 - 9.01% of mass 174	2513	4.79	(7.40) [a]	Pass
176	93.0 - 101.0% of mass 174	32827	62.5	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	1975	3.76	(6.02) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W107-CC93	7W02596.D	07/29/23	10:30	00:39	Continuing cal 10
V7W107-BS	7W02597.D	07/29/23	11:07	01:16	Blank Spike
V7W107-BSD	7W02598.D	07/29/23	11:43	01:52	Blank Spike Duplicate
V7W107-MB	7W02600.D	07/29/23	13:01	03:10	Method Blank
ZZZZZZ	7W02601.D	07/29/23	13:47	03:56	(unrelated sample)
ZZZZZZ	7W02602.D	07/29/23	14:22	04:31	(unrelated sample)
JD69700-7	7W02606.D	07/29/23	16:49	06:58	(used for QC only; not part of job JD69907)
JD69700-7DUP	7W02607.D	07/29/23	17:24	07:33	Duplicate
ZZZZZZ	7W02608.D	07/29/23	17:59	08:08	(unrelated sample)
ZZZZZZ	7W02609.D	07/29/23	18:34	08:43	(unrelated sample)
ZZZZZZ	7W02610.D	07/29/23	19:15	09:24	(unrelated sample)
ZZZZZZ	7W02611.D	07/29/23	19:55	10:04	(unrelated sample)
ZZZZZZ	7W02612.D	07/29/23	20:35	10:44	(unrelated sample)
ZZZZZZ	7W02613.D	07/29/23	21:22	11:31	(unrelated sample)
ZZZZZZ	7W02617.D	07/29/23	23:48	13:57	(unrelated sample)
ZZZZZZ	7W02618.D	07/30/23	00:23	14:32	(unrelated sample)
ZZZZZZ	7W02619.D	07/30/23	00:57	15:06	(unrelated sample)
ZZZZZZ	7W02620.D	07/30/23	01:33	15:42	(unrelated sample)
JD69907-1	7W02622.D	07/30/23	02:43	16:52	SVE-EFF
ZZZZZZ	7W02623.D	07/30/23	03:24	17:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W43-BFB	**Injection Date:**	06/29/23
Lab File ID:	8W01042.D	**Injection Time:**	22:54
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14879	12.4		Pass
75	30.0 - 66.0% of mass 95	52725	44.0		Pass
95	Base peak, 100% relative abundance	119859	100.0		Pass
96	5.0 - 9.0% of mass 95	8084	6.74		Pass
173	Less than 2.0% of mass 174	668	0.56	(0.59) [a]	Pass
174	50.0 - 120.0% of mass 95	112475	93.8		Pass
175	4.0 - 9.01% of mass 174	7817	6.52	(6.95) [a]	Pass
176	93.0 - 101.0% of mass 174	108976	90.9	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6969	5.81	(6.39) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W43-IC0043	8W01043.D	06/29/23	23:27	00:33	Initial cal 0.04
V8W43-IC0043	8W01044.D	06/30/23	00:01	01:07	Initial cal 0.1
V8W43-IC0043	8W01045.D	06/30/23	00:36	01:42	Initial cal 0.2
V8W43-IC0043	8W01046.D	06/30/23	01:12	02:18	Initial cal 0.5
V8W43-IC0043	8W01048.D	06/30/23	02:18	03:24	Initial cal 5
V8W43-ICC0043	8W01049.D	06/30/23	02:53	03:59	Initial cal 10
V8W43-IC0043	8W01050.D	06/30/23	03:30	04:36	Initial cal 20
V8W43-IC0043	8W01051.D	06/30/23	04:10	05:16	Initial cal 40
V8W43-IC0043	8W01052.D	06/30/23	04:51	05:57	Initial cal 50
V8W43-ICV0043	8W01055.D	06/30/23	06:35	07:41	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V8W46-BFB
Lab File ID: 8W01128.D
Instrument ID: GCMS8W
Injection Date: 07/05/23
Injection Time: 10:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	16467	12.9		Pass
75	30.0 - 66.0% of mass 95	56251	44.1		Pass
95	Base peak, 100% relative abundance	127445	100.0		Pass
96	5.0 - 9.0% of mass 95	8584	6.74		Pass
173	Less than 2.0% of mass 174	634	0.50	(0.52) [a]	Pass
174	50.0 - 120.0% of mass 95	121843	95.6		Pass
175	4.0 - 9.01% of mass 174	8604	6.75	(7.06) [a]	Pass
176	93.0 - 101.0% of mass 174	117779	92.4	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	7761	6.09	(6.59) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W46-CC0043	8W01129.D	07/05/23	10:42	00:34	Continuing cal 10
V8W46-BS	8W01130.D	07/05/23	11:45	01:37	Blank Spike
V8W46-BSD	8W01131.D	07/05/23	12:20	02:12	Blank Spike Duplicate
V8W46-MB	8W01133.D	07/05/23	14:12	04:04	Method Blank
ZZZZZZ	8W01134.D	07/05/23	15:21	05:13	(unrelated sample)
ZZZZZZ	8W01135.D	07/05/23	16:03	05:55	(unrelated sample)
JD68480-1	8W01136.D	07/05/23	16:37	06:29	(used for QC only; not part of job JD69907)
JD68480-1DUP	8W01137.D	07/05/23	17:13	07:05	Duplicate
ZZZZZZ	8W01138.D	07/05/23	17:48	07:40	(unrelated sample)
ZZZZZZ	8W01139.D	07/05/23	18:23	08:15	(unrelated sample)
ZZZZZZ	8W01140.D	07/05/23	18:58	08:50	(unrelated sample)
ZZZZZZ	8W01141.D	07/05/23	19:33	09:25	(unrelated sample)
ZZZZZZ	8W01142.D	07/05/23	20:08	10:00	(unrelated sample)
ZZZZZZ	8W01143.D	07/05/23	20:49	10:41	(unrelated sample)
ZZZZZZ	8W01144.D	07/05/23	21:29	11:21	(unrelated sample)
ZZZZZZ	8W01147.D	07/05/23	23:16	13:08	(unrelated sample)
ZZZZZZ	8W01149.D	07/06/23	00:31	14:23	(unrelated sample)
ZZZZZZ	8W01150.D	07/06/23	01:12	15:04	(unrelated sample)
ZZZZZZ	8W01151.D	07/06/23	01:52	15:44	(unrelated sample)
ZZZZZZ	8W01152.D	07/06/23	02:33	16:25	(unrelated sample)
V8W46-SCC	8W01153.D	07/06/23	03:13	17:05	Summa Cleaning Certification
V8W46-SCC	8W01154.D	07/06/23	03:53	17:45	Summa Cleaning Certification
V8W46-SCC	8W01155.D	07/06/23	04:28	18:20	Summa Cleaning Certification
V8W46-SCC	8W01156.D	07/06/23	05:03	18:55	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W46-BFB	**Injection Date:**	07/05/23
Lab File ID:	8W01128.D	**Injection Time:**	10:08
Instrument ID:	GCMS8W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W46-SCC	8W01157.D	07/06/23	05:37	19:29	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD69907
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD69907-1	7W02622.D	104
JD69700-7DUP	7W02607.D	103
V7W107-BS	7W02597.D	105
V7W107-BSD	7W02598.D	105
V7W107-MB	7W02600.D	101
V8W46-SCC	8W01155.D	98
V8W46-BS	8W01130.D	101
V8W46-BSD	8W01131.D	101
V8W46-MB	8W01133.D	98

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60663618

SGS Job Number: JD72220

Sampling Date: 09/05/23



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ross

Total number of pages in report: **34**

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD72220

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD72220-1	09/05/23	10:05	TD	09/06/23	AIR	Soil Vapor Comp.	SVE-EFF

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

Summary of Hits

Job Number: JD72220
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 09/05/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD72220-1	**SVE-EFF**					
Acetone (2-Propanone)		4.7	0.80	0.58	ppbv	TO-15
Benzene		2.7	0.80	0.58	ppbv	TO-15
Cyclohexane		0.46 J	0.80	0.18	ppbv	TO-15
Dichlorodifluoromethane		0.45 J	0.80	0.42	ppbv	TO-15
cis-1,2-Dichloroethylene		0.91	0.80	0.12	ppbv	TO-15
Ethanol		1.7 J	2.0	1.6	ppbv	TO-15
Ethyl Acetate		1.3	0.80	0.42	ppbv	TO-15
Hexane		0.78 J	0.80	0.21	ppbv	TO-15
Isopropyl Alcohol		16.3	0.80	0.56	ppbv	TO-15
Methylene chloride		1.2	0.80	0.22	ppbv	TO-15
1,1,1-Trichloroethane		0.63 J	0.80	0.15	ppbv	TO-15
Tetrachloroethylene		154	0.16	0.056	ppbv	TO-15
Trichloroethylene		1.7	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		1.7	0.80	0.62	ppbv	TO-15
Acetone (2-Propanone)		11	1.9	1.4	ug/m3	TO-15
Benzene		8.6	2.6	1.9	ug/m3	TO-15
Cyclohexane		1.6 J	2.8	0.62	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.1	ug/m3	TO-15
cis-1,2-Dichloroethylene		3.6	3.2	0.48	ug/m3	TO-15
Ethanol		3.2 J	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		4.7	2.9	1.5	ug/m3	TO-15
Hexane		2.7 J	2.8	0.74	ug/m3	TO-15
Isopropyl Alcohol		40.1	2.0	1.4	ug/m3	TO-15
Methylene chloride		4.2	2.8	0.76	ug/m3	TO-15
1,1,1-Trichloroethane		3.4 J	4.4	0.82	ug/m3	TO-15
Tetrachloroethylene		1040	1.1	0.38	ug/m3	TO-15
Trichloroethylene		9.1	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		9.6	4.5	3.5	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SVE-EFF		
Lab Sample ID:	JD72220-1	**Date Sampled:**	09/05/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A2307	**Date Received:**	09/06/23
Method:	TO-15	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W03033.D	1	09/07/23 21:56	WC	n/a	n/a	V7W125
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	4.7	0.80	0.58	ppbv		11	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	2.7	0.80	0.58	ppbv		8.6	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	0.46	0.80	0.18	ppbv	J	1.6	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.80	0.42	ppbv	J	2.2	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.91	0.80	0.12	ppbv		3.6	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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: SVE-EFF
Lab Sample ID: JD72220-1 **Date Sampled:** 09/05/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A2307 **Date Received:** 09/06/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.7	2.0	1.6	ppbv	J	3.2	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	1.3	0.80	0.42	ppbv		4.7	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	0.78	0.80	0.21	ppbv	J	2.7	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	16.3	0.80	0.56	ppbv		40.1	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.80	0.22	ppbv		4.2	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.63	0.80	0.15	ppbv	J	3.4	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	154	0.16	0.056	ppbv		1040	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.7	0.16	0.076	ppbv		9.1	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.7	0.80	0.62	ppbv		9.6	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

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
- Summa Canister and Flow Controller Log

Air

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking # 7003 7820 5299 | Bottle Order Control # BW-08423-147
SGS Quote # | SGS Job # JD72220

Client / Reporting Information
Company Name: AECOM
Address: 5438 Wade Park Blvd.
City: Raleigh State: NC Zip: 27607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100
Sampler(s) Name(s): Tim DicKey

Project Information
Project Name: Delavan SVE
Street: 4334 Main Hwy.
City: Bamberg State: SC
Project #:
Client Purchase Order #:

Weather Parameters
Temperature (Fahrenheit) Start: 77°F Maximum: Stop: 77°F Minimum:
Atmoshpheric Pressure (Inches of Hg) Start: 30.06 Maximum: Stop: 30.06 Minimum:
Other weather comment:

Requested Analysis
VTO IS

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	VTO IS
1	SVE-EFF	SV	NR	A2307	1L	FC304	9/5/23	1080	29	—	TD	9/5/23	1005	0	—	TD	X

Turnaround Time (Business days)
X 15 Business Days
10 Business Days
5 Business Days
3 Business Days *
2 Business Days *
1 Business Day *
Other
Approved By:
Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information
All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by / Laboratory:	Date / Time:		Received By:	Relinquished By:	Date / Time:	Received By:
1		9/5/23	1070		2 Tim DicKey	9/5/23 1300	2 FedEx.
3	FedEx	9/6/23	1005	3	4		4
5				5	Custody Seal #		

http://www.sgs.com/en/terms-and-conditions

4B EA

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

SGS Sample Receipt Summary

Job Number: JD72220 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNOL

Date / Time Received: 9/6/2023 10:05:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD72220: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 09/06/23

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A2307	1.4	30	08/18/23	ML	CP12338	7W02683.D	JD72220-1	09/06/23	DG	0			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC904	08/18/23	ML	185	.0833	09/07/23	DG	190	2.7	Flow Controller

SGS Bottle Order(s):
BW-08423-147

Prep Date	Room Temp(F)	Bar Pres "Hg
08/18/23	70	29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W125-MB	7W03016.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W125-MB	7W03016.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W125-MB	7W03016.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Method Blank Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-MB	7W02680.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here applies to the following samples: **Method:** TO-15

V7W111-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-MB	7W02680.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here applies to the following samples: **Method:** TO-15

V7W111-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-MB	7W02680.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here applies to the following samples: **Method:** TO-15

V7W111-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.69	19	ppbv	J
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W125-BS	7W03013.D	1	09/07/23	WC	n/a	n/a	V7W125
V7W125-BSD	7W03014.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10	100	9.7	97	3	70-130/30
106-99-0	1,3-Butadiene	10	11.1	111	11.0	110	1	70-130/30
71-43-2	Benzene	10	10.6	106	10.5	105	1	70-130/30
75-27-4	Bromodichloromethane	10	11.9	119	12.1	121	2	70-130/30
75-25-2	Bromoform	10	12.3	123	12.3	123	0	70-130/30
74-83-9	Bromomethane	10	11.1	111	10.9	109	2	70-130/30
593-60-2	Bromoethene	10	11.4	114	11.2	112	2	70-130/30
100-44-7	Benzyl Chloride	10	12.6	126	12.5	125	1	70-130/30
75-15-0	Carbon disulfide	10	11.2	112	11.0	110	2	70-130/30
108-90-7	Chlorobenzene	10	10.2	102	10.2	102	0	70-130/30
75-00-3	Chloroethane	10	11.0	110	10.8	108	2	70-130/30
67-66-3	Chloroform	10	11.5	115	11.2	112	3	70-130/30
74-87-3	Chloromethane	10	11.1	111	11.1	111	0	70-130/30
107-05-1	3-Chloropropene	10	10.6	106	10.4	104	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.3	103	10.1	101	2	70-130/30
56-23-5	Carbon tetrachloride	10	12.8	128	12.7	127	1	70-130/30
110-82-7	Cyclohexane	10	10.2	102	10.4	104	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10.9	109	10.9	109	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	11.4	114	11.2	112	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.3	113	11.4	114	1	70-130/30
107-06-2	1,2-Dichloroethane	10	11.5	115	11.5	115	0	70-130/30
78-87-5	1,2-Dichloropropane	10	10.9	109	10.9	109	0	70-130/30
123-91-1	1,4-Dioxane	10	10.5	105	10.6	106	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.6	116	11.6	116	0	70-130/30
124-48-1	Dibromochloromethane	10	12.2	122	12.3	123	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.6	106	10.4	104	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.5	105	10.7	107	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.8	118	12.0	120	2	70-130/30
541-73-1	m-Dichlorobenzene	10	11.1	111	10.9	109	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10.8	108	10.9	109	1	70-130/30
106-46-7	p-Dichlorobenzene	10	11.4	114	11.4	114	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	12.1	121	12.3	123	2	70-130/30
64-17-5	Ethanol	10	9.9	99	9.9	99	0	70-130/30
100-41-4	Ethylbenzene	10	10.8	108	10.8	108	0	70-130/30
141-78-6	Ethyl Acetate	10	11.1	111	11.0	110	1	70-130/30
622-96-8	4-Ethyltoluene	10	11.3	113	11.2	112	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W125-BS	7W03013.D	1	09/07/23	WC	n/a	n/a	V7W125
V7W125-BSD	7W03014.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.4	114	11.4	114	0	70-130/30
76-14-2	Freon 114	10	11.4	114	11.3	113	1	70-130/30
142-82-5	Heptane	10	10.2	102	10.3	103	1	70-130/30
87-68-3	Hexachlorobutadiene	10	10.9	109	10.8	108	1	70-130/30
110-54-3	Hexane	10	10.4	104	10.4	104	0	70-130/30
591-78-6	2-Hexanone	10	11.0	110	11.2	112	2	70-130/30
67-63-0	Isopropyl Alcohol	10	10.9	109	10.7	107	2	70-130/30
75-09-2	Methylene chloride	10	11.2	112	11.0	110	2	70-130/30
78-93-3	Methyl ethyl ketone	10	10.4	104	10.2	102	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.6	106	10.7	107	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.8	108	10.7	107	1	70-130/30
80-62-6	Methylmethacrylate	10	11.4	114	11.5	115	1	70-130/30
115-07-1	Propylene	10	9.1	91	9.1	91	0	70-130/30
100-42-5	Styrene	10	10.8	108	10.8	108	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	12.4	124	12.3	123	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.3	113	11.1	111	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.7	107	10.8	108	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.7	117	11.1	111	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.1	111	11.1	111	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.7	107	10.8	108	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.5	105	10.7	107	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.7	117	11.6	116	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10.5	105	3	70-130/30
109-99-9	Tetrahydrofuran	10	10.4	104	10.4	104	0	70-130/30
108-88-3	Toluene	10	10.6	106	10.8	108	2	70-130/30
79-01-6	Trichloroethylene	10	11.2	112	11.3	113	1	70-130/30
75-69-4	Trichlorofluoromethane	10	12.0	120	11.9	119	1	70-130/30
75-01-4	Vinyl chloride	10	11.1	111	11.1	111	0	70-130/30
108-05-4	Vinyl Acetate	10	12.4	124	12.1	121	2	70-130/30
	m,p-Xylene	20	21.0	105	21.1	106	0	70-130/30
95-47-6	o-Xylene	10	11.0	110	11.0	110	0	70-130/30
1330-20-7	Xylenes (total)	30	32.0	107	32.1	107	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W125-BS	7W03013.D	1	09/07/23	WC	n/a	n/a	V7W125
V7W125-BSD	7W03014.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	102%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-BS	7W02677.D	1	08/07/23	TCH	n/a	n/a	V7W111
V7W111-BSD	7W02678.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here applies to the following samples: **Method:** TO-15

V7W111-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.3	83	8.2	82	1	70-130/30
106-99-0	1,3-Butadiene	10	9.5	95	9.4	94	1	70-130/30
71-43-2	Benzene	10	10.0	100	10.1	101	1	70-130/30
75-27-4	Bromodichloromethane	10	10.7	107	10.6	106	1	70-130/30
75-25-2	Bromoform	10	11.5	115	11.7	117	2	70-130/30
74-83-9	Bromomethane	10	9.7	97	9.4	94	3	70-130/30
593-60-2	Bromoethene	10	9.8	98	9.6	96	2	70-130/30
100-44-7	Benzyl Chloride	10	11.5	115	11.4	114	1	70-130/30
75-15-0	Carbon disulfide	10	9.3	93	9.4	94	1	70-130/30
108-90-7	Chlorobenzene	10	10.3	103	10.4	104	1	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.4	94	1	70-130/30
67-66-3	Chloroform	10	10.3	103	10.2	102	1	70-130/30
74-87-3	Chloromethane	10	9.2	92	9.2	92	0	70-130/30
107-05-1	3-Chloropropene	10	9.0	90	9.2	92	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	10.4	104	3	70-130/30
56-23-5	Carbon tetrachloride	10	11.3	113	11.2	112	1	70-130/30
110-82-7	Cyclohexane	10	10.1	101	10.1	101	0	70-130/30
75-34-3	1,1-Dichloroethane	10	10.3	103	10.0	100	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.6	96	9.4	94	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.7	107	10.7	107	0	70-130/30
107-06-2	1,2-Dichloroethane	10	10.4	104	10.2	102	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10	100	10.2	102	2	70-130/30
123-91-1	1,4-Dioxane	10	10.2	102	10	100	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.1	101	10.0	100	1	70-130/30
124-48-1	Dibromochloromethane	10	11.6	116	11.5	115	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.3	103	10.2	102	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.4	104	10.2	102	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.2	112	11.2	112	0	70-130/30
541-73-1	m-Dichlorobenzene	10	11.1	111	11.2	112	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.8	108	10.9	109	1	70-130/30
106-46-7	p-Dichlorobenzene	10	11.4	114	11.5	115	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.3	113	11.3	113	0	70-130/30
64-17-5	Ethanol	10	8.8	88	8.6	86	2	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.5	105	1	70-130/30
141-78-6	Ethyl Acetate	10	10.3	103	10.3	103	0	70-130/30
622-96-8	4-Ethyltoluene	10	11.0	110	11.1	111	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-BS	7W02677.D	1	08/07/23	TCH	n/a	n/a	V7W111
V7W111-BSD	7W02678.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here applies to the following samples: **Method:** TO-15

V7W111-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.5	95	9.6	96	1	70-130/30
76-14-2	Freon 114	10	10.0	100	9.8	98	2	70-130/30
142-82-5	Heptane	10	10.0	100	10	100	0	70-130/30
87-68-3	Hexachlorobutadiene	10	9.9	99	9.9	99	0	70-130/30
110-54-3	Hexane	10	9.8	98	9.8	98	0	70-130/30
591-78-6	2-Hexanone	10	9.8	98	10.1	101	3	70-130/30
67-63-0	Isopropyl Alcohol	10	9.3	93	9.1	91	2	70-130/30
75-09-2	Methylene chloride	10	9.4	94	9.1	91	3	70-130/30
78-93-3	Methyl ethyl ketone	10	10.0	100	10	100	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.8	98	9.8	98	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.3	103	10.2	102	1	70-130/30
80-62-6	Methylmethacrylate	10	10.5	105	10.5	105	0	70-130/30
115-07-1	Propylene	10	9.4	94	9.2	92	2	70-130/30
100-42-5	Styrene	10	10.8	108	10.9	109	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	11.0	110	10.9	109	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.5	105	10.5	105	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.0	100	10.1	101	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.6	106	10.1	101	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.6	106	10.9	109	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.6	106	10.6	106	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.0	100	10	100	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10	100	9.9	99	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10.5	105	3	70-130/30
109-99-9	Tetrahydrofuran	10	10	100	10.0	100	0	70-130/30
108-88-3	Toluene	10	10.2	102	10.2	102	0	70-130/30
79-01-6	Trichloroethylene	10	10.7	107	10.6	106	1	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	9.9	99	2	70-130/30
75-01-4	Vinyl chloride	10	9.8	98	9.5	95	3	70-130/30
108-05-4	Vinyl Acetate	10	11.3	113	11.3	113	0	70-130/30
	m,p-Xylene	20	20.1	101	20.4	102	1	70-130/30
95-47-6	o-Xylene	10	10.5	105	10.6	106	1	70-130/30
1330-20-7	Xylenes (total)	30	30.6	102	31.0	103	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-BS	7W02677.D	1	08/07/23	TCH	n/a	n/a	V7W111
V7W111-BSD	7W02678.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here applies to the following samples: **Method:** TO-15

V7W111-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD72093-1DUP	7W03023.D	1	09/07/23	WC	n/a	n/a	V7W125
JD72093-1	7W03022.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Compound	JD72093-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	7.9		8.3		5	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		0.15	J	200* [a]	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	0.84		0.89		6	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.45		0.45		0	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	45.2		48.5		7	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD72093-1DUP	7W03023.D	1	09/07/23	WC	n/a	n/a	V7W125
JD72093-1	7W03022.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Compound	JD72093-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.23		0.25		8	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	1.0		1.1		10	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	0.59		0.65		10	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	0.18	J	0.17	J	6	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.99		1.0		1	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.25		0.26		4	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD72093-1DUP	7W03023.D	1	09/07/23	WC	n/a	n/a	V7W125
JD72093-1	7W03022.D	1	09/07/23	WC	n/a	n/a	V7W125

The QC reported here applies to the following samples: **Method:** TO-15

JD72220-1

CAS No.	Surrogate Recoveries	DUP	JD72093-1	Limits
460-00-4	4-Bromofluorobenzene	102%	100%	65-128%

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-SCC	7W02681.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here (Summa M331) applies to the following samples: **Method:** TO-15

Batch CP12338 cleaned 07/01/23: JD72220-1(A2307)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-SCC	7W02681.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here (Summa M331) applies to the following samples: **Method:** TO-15

Batch CP12338 cleaned 07/01/23: JD72220-1(A2307)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W111-SCC	7W02681.D	1	08/07/23	TCH	n/a	n/a	V7W111

The QC reported here (Summa M331) applies to the following samples: **Method:** TO-15

Batch CP12338 cleaned 07/01/23: JD72220-1(A2307)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	65-128%

Instrument Performance Check (BFB)

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W109-BFB
Lab File ID: 7W02634.D
Instrument ID: GCMS7W
Injection Date: 08/03/23
Injection Time: 17:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	15954	33.2		Pass
75	30.0 - 66.0% of mass 95	24597	51.2		Pass
95	Base peak, 100% relative abundance	48064	100.0		Pass
96	5.0 - 9.0% of mass 95	3134	6.52		Pass
173	Less than 2.0% of mass 174	381	0.79	(1.11) [a]	Pass
174	50.0 - 120.0% of mass 95	34285	71.3		Pass
175	4.0 - 9.01% of mass 174	2465	5.13	(7.19) [a]	Pass
176	93.0 - 101.0% of mass 174	33696	70.1	(98.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2104	4.38	(6.24) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W109-IC0109	7W02635.D	08/03/23	18:19	00:34	Initial cal 0.04
V7W109-IC0109	7W02636.D	08/03/23	18:50	01:05	Initial cal 0.1
V7W109-IC0109	7W02637.D	08/03/23	19:25	01:40	Initial cal 0.2
V7W109-IC0109	7W02638.D	08/03/23	20:02	02:17	Initial cal 0.5
V7W109-IC0109	7W02640.D	08/03/23	21:09	03:24	Initial cal 5
V7W109-ICC0109	7W02641.D	08/03/23	21:44	03:59	Initial cal 10
V7W109-IC0109	7W02642.D	08/03/23	22:21	04:36	Initial cal 20
V7W109-IC0109	7W02643.D	08/03/23	23:00	05:15	Initial cal 40
V7W109-IC0109	7W02644.D	08/03/23	23:42	05:57	Initial cal 50
V7W109-ICV0109	7W02647.D	08/04/23	01:26	07:41	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W111-BFB
Lab File ID: 7W02675.D
Instrument ID: GCMS7W
Injection Date: 08/07/23
Injection Time: 10:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	17075	32.9		Pass
75	30.0 - 66.0% of mass 95	26707	51.4		Pass
95	Base peak, 100% relative abundance	51944	100.0		Pass
96	5.0 - 9.0% of mass 95	3485	6.71		Pass
173	Less than 2.0% of mass 174	438	0.84	(1.24) [a]	Pass
174	50.0 - 120.0% of mass 95	35280	67.9		Pass
175	4.0 - 9.01% of mass 174	2722	5.24	(7.72) [a]	Pass
176	93.0 - 101.0% of mass 174	34816	67.0	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	2330	4.49	(6.69) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W111-CC0109	7W02676.D	08/07/23	10:47	00:34	Continuing cal 10
V7W111-BS	7W02677.D	08/07/23	11:34	01:21	Blank Spike
V7W111-BSD	7W02678.D	08/07/23	12:09	01:56	Blank Spike Duplicate
V7W111-MB	7W02680.D	08/07/23	13:37	03:24	Method Blank
V7W111-SCC	7W02681.D	08/07/23	14:30	04:17	Summa Cleaning Certification
V7W111-SCC	7W02682.D	08/07/23	15:05	04:52	Summa Cleaning Certification
V7W111-SCC	7W02683.D	08/07/23	15:36	05:23	Summa Cleaning Certification
ZZZZZZ	7W02685.D	08/07/23	17:13	07:00	(unrelated sample)
JD70319-8	7W02687.D	08/07/23	18:31	08:18	(used for QC only; not part of job JD72220)
JD70319-8DUP	7W02688.D	08/07/23	19:05	08:52	Duplicate
ZZZZZZ	7W02690.D	08/07/23	20:20	10:07	(unrelated sample)
ZZZZZZ	7W02691.D	08/07/23	20:53	10:40	(unrelated sample)
V7W111-SCC	7W02697.D	08/08/23	00:24	14:11	Summa Cleaning Certification
V7W111-SCC	7W02698.D	08/08/23	00:59	14:46	Summa Cleaning Certification
V7W111-SCC	7W02699.D	08/08/23	01:38	15:25	Summa Cleaning Certification
ZZZZZZ	7W02701.D	08/08/23	02:58	16:45	(unrelated sample)
ZZZZZZ	7W02703.D	08/08/23	08:19	22:06	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W125-BFB
Lab File ID: 7W03011.D
Instrument ID: GCMS7W
Injection Date: 09/07/23
Injection Time: 08:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14998	34.7		Pass
75	30.0 - 66.0% of mass 95	23840	55.2		Pass
95	Base peak, 100% relative abundance	43197	100.0		Pass
96	5.0 - 9.0% of mass 95	2960	6.85		Pass
173	Less than 2.0% of mass 174	229	0.53	(0.81) [a]	Pass
174	50.0 - 120.0% of mass 95	28320	65.6		Pass
175	4.0 - 9.01% of mass 174	2243	5.19	(7.92) [a]	Pass
176	93.0 - 101.0% of mass 174	28560	66.1	(100.8) [a]	Pass
177	5.0 - 9.0% of mass 176	1699	3.93	(5.95) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W125-CC109	7W03012.D	09/07/23	08:42	00:35	Continuing cal 10
V7W125-BS	7W03013.D	09/07/23	09:25	01:18	Blank Spike
V7W125-BSD	7W03014.D	09/07/23	10:00	01:53	Blank Spike Duplicate
V7W125-MB	7W03016.D	09/07/23	11:27	03:20	Method Blank
ZZZZZZ	7W03017.D	09/07/23	12:21	04:14	(unrelated sample)
ZZZZZZ	7W03018.D	09/07/23	13:02	04:55	(unrelated sample)
ZZZZZZ	7W03019.D	09/07/23	13:38	05:31	(unrelated sample)
ZZZZZZ	7W03020.D	09/07/23	14:15	06:08	(unrelated sample)
JD72093-1	7W03022.D	09/07/23	15:30	07:23	(used for QC only; not part of job JD72220)
JD72093-1DUP	7W03023.D	09/07/23	16:10	08:03	Duplicate
ZZZZZZ	7W03024.D	09/07/23	16:44	08:37	(unrelated sample)
ZZZZZZ	7W03025.D	09/07/23	17:18	09:11	(unrelated sample)
ZZZZZZ	7W03026.D	09/07/23	17:52	09:45	(unrelated sample)
ZZZZZZ	7W03027.D	09/07/23	18:25	10:18	(unrelated sample)
ZZZZZZ	7W03028.D	09/07/23	19:00	10:53	(unrelated sample)
ZZZZZZ	7W03029.D	09/07/23	19:34	11:27	(unrelated sample)
ZZZZZZ	7W03030.D	09/07/23	20:09	12:02	(unrelated sample)
ZZZZZZ	7W03031.D	09/07/23	20:45	12:38	(unrelated sample)
ZZZZZZ	7W03032.D	09/07/23	21:20	13:13	(unrelated sample)
JD72220-1	7W03033.D	09/07/23	21:56	13:49	SVE-EFF

Surrogate Recovery Summary

Job Number: JD72220
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD72220-1	7W03033.D	100
JD72093-1DUP	7W03023.D	102
V7W111-SCC	7W02681.D	99
V7W125-BS	7W03013.D	104
V7W125-BSD	7W03014.D	102
V7W125-MB	7W03016.D	100
V7W111-BS	7W02677.D	103
V7W111-BSD	7W02678.D	103
V7W111-MB	7W02680.D	99

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60663618

SGS Job Number: JD73725

Sampling Date: 09/27/23



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ross

Total number of pages in report: **39**

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD73725

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD73725-1	09/27/23	11:40	TD	09/28/23	AIR	Soil Vapor Comp.	SVE-EFF

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Raytheon Technologies Corporation	**Job No:**	JD73725
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	10/9/2023 6:12:07 AM

On 09/28/2023, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of XXXXNO TEMPERATURE FOUNDXXXX °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD73725 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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 TO-15

Matrix: AIR **Batch ID:** V7W149

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD73925-3DUP were used as the QC samples indicated.
- The blank spike (BS) recovery(s) of Benzyl Chloride are outside control limits.
- The duplicate RPD(s) for Isopropyl Alcohol, Dichlorodifluoromethane are outside control limits for sample JD73925-3DUP. RPD acceptable due to low DUP and sample concentrations.
- JD73725-1 for Benzyl Chloride: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- V7W149-BS for Benzyl Chloride: High percent recovery and no associated positive reported in the QC batch.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's 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 is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD73725
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 09/27/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD73725-1	**SVE-EFF**					
Acetone (2-Propanone)		16.6	0.80	0.58	ppbv	TO-15
Benzene		0.60 J	0.80	0.58	ppbv	TO-15
cis-1,2-Dichloroethylene		0.73 J	0.80	0.12	ppbv	TO-15
Ethanol		2.9	2.0	1.6	ppbv	TO-15
Ethyl Acetate		2.6	0.80	0.42	ppbv	TO-15
Hexane		0.47 J	0.80	0.21	ppbv	TO-15
Isopropyl Alcohol		38.3	0.80	0.56	ppbv	TO-15
Methylene chloride		0.98	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone		1.2	0.80	0.44	ppbv	TO-15
1,1,1-Trichloroethane		0.45 J	0.80	0.15	ppbv	TO-15
Tertiary Butyl Alcohol		0.77 J	0.80	0.37	ppbv	TO-15
Tetrachloroethylene		137	0.16	0.056	ppbv	TO-15
Toluene		0.42 J	0.80	0.23	ppbv	TO-15
Trichloroethylene		1.4	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		1.2	0.80	0.62	ppbv	TO-15
Acetone (2-Propanone)		39.4	1.9	1.4	ug/m3	TO-15
Benzene		1.9 J	2.6	1.9	ug/m3	TO-15
cis-1,2-Dichloroethylene		2.9 J	3.2	0.48	ug/m3	TO-15
Ethanol		5.5	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		9.4	2.9	1.5	ug/m3	TO-15
Hexane		1.7 J	2.8	0.74	ug/m3	TO-15
Isopropyl Alcohol		94.1	2.0	1.4	ug/m3	TO-15
Methylene chloride		3.4	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone		3.5	2.4	1.3	ug/m3	TO-15
1,1,1-Trichloroethane		2.5 J	4.4	0.82	ug/m3	TO-15
Tertiary Butyl Alcohol		2.3 J	2.4	1.1	ug/m3	TO-15
Tetrachloroethylene		929	1.1	0.38	ug/m3	TO-15
Toluene		1.6 J	3.0	0.87	ug/m3	TO-15
Trichloroethylene		7.5	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		6.7	4.5	3.5	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SVE-EFF		
Lab Sample ID:	JD73725-1	**Date Sampled:**	09/27/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A2352	**Date Received:**	09/28/23
Method:	TO-15	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W03695.D	1	10/05/23 00:17	TS	n/a	n/a	V7W149
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	16.6	0.80	0.58	ppbv		39.4	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	0.60	0.80	0.58	ppbv	J	1.9	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride [a]	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.73	0.80	0.12	ppbv	J	2.9	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD73725-1 **Date Sampled:** 09/27/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A2352 **Date Received:** 09/28/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.9	2.0	1.6	ppbv		5.5	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	2.6	0.80	0.42	ppbv		9.4	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	0.47	0.80	0.21	ppbv	J	1.7	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	38.3	0.80	0.56	ppbv		94.1	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	0.98	0.80	0.22	ppbv		3.4	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.80	0.44	ppbv		3.5	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.45	0.80	0.15	ppbv	J	2.5	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.77	0.80	0.37	ppbv	J	2.3	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	137	0.16	0.056	ppbv		929	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.42	0.80	0.23	ppbv	J	1.6	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.4	0.16	0.076	ppbv		7.5	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.2	0.80	0.62	ppbv		6.7	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

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:	SVE-EFF		
Lab Sample ID:	JD73725-1	**Date Sampled:**	09/27/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A2352	**Date Received:**	09/28/23
Method:	TO-15	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

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
- Summa Canister and Flow Controller Log

Air

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking # 7003 7831 4672 | Bottle Order Control # BOC-091223-11
SGS Quote # | SGS Job # JD73725

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd.
City: Raleigh State: NC Zip: 27607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100 Fax
Sampler(s) Name(s): Tim Dickey

Project Information

Project Name: Delavan SVE
Street: 4334 Main Hwy.
City: Bamberg State: SC
Project #
Client Purchase Order #

Weather Parameters

Temperature (Fahrenheit)
Start: 70°F Maximum:
Stop: 70°F Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: 30.13 Maximum:
Stop: 30.13 Minimum:
Other weather comment:

Requested Analysis

TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Sampling Equipment Info: Canister Size 6L or 1L	Sampling Equipment Info: Flow Controller Serial #	Start Sampling Information: Date	Start: Time (24hr clock)	Start: Canister Pressure ("Hg)	Start: Interior Temp (F)	Start: Sampler Init.	Stop Sampling Information: Date	Stop: Time (24hr clock)	Stop: Canister Pressure ("Hg)	Stop: Interior Temp (F)	Stop: Sampler Init.	TO-15
1	SVE-EFF	SV	NR	02352	1L	FC1015	9/27/23	1135	30	—	TD	9/27/23	1140	0	—	TD	X

Turnaround Time (Business days)
- [X] 15 Business Days
- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days *
- [ ] 2 Business Days *
- [ ] 1 Business Day *
- [ ] Other

Approved By: Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information
All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1		9/28/23 1530	1			
2				Tim Dickey / AECOM	9/28/23 1330	FedEx
3	FedEx 9/28/23 1000		3			
4				4		4
5	Relinquished by:	Date / Time:	Received By: 5	Custody Seal # 6020		

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

Initial Assessment NBA
Label Verification

SGS Sample Receipt Summary

Job Number: JD73725 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNOL

Date / Time Received: 9/28/2023 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 09/28/23

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A2352	1.4	30	09/19/23	ML	CP12405	8W01893.D	JD73725-1	09/29/23	DG	0			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1015	09/19/23	ML	185	.0833	10/02/23	DG	185	0	Flow Controller

SGS Bottle Order(s):
BW-091223-111

Prep Date	Room Temp(F)	Bar Pres "Hg
09/19/23	70	29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W149-MB	7W03673.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W149-MB	7W03673.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W149-MB	7W03673.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Method Blank Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-MB	8W01875.D	1	08/31/23	WC	n/a	n/a	V8W74

The QC reported here applies to the following samples: **Method:** TO-15

V8W74-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-MB	8W01875.D	1	08/31/23	WC	n/a	n/a	V8W74

The QC reported here applies to the following samples: **Method:** TO-15

V8W74-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-MB	8W01875.D	1	08/31/23	WC	n/a	n/a	V8W74

The QC reported here applies to the following samples: **Method:** TO-15

V8W74-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W149-BS	7W03670.D	1	10/04/23	TS	n/a	n/a	V7W149
V7W149-BSD	7W03671.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.0	100	9.7	97	3	70-130/30
106-99-0	1,3-Butadiene	10	12.4	124	12.1	121	2	70-130/30
71-43-2	Benzene	10	11.1	111	10.7	107	4	70-130/30
75-27-4	Bromodichloromethane	10	12.3	123	12.0	120	2	70-130/30
75-25-2	Bromoform	10	11.6	116	11.4	114	2	70-130/30
74-83-9	Bromomethane	10	11.0	110	10.9	109	1	70-130/30
593-60-2	Bromoethene	10	11.0	110	10.7	107	3	70-130/30
100-44-7	Benzyl Chloride	10	13.7	137* [a]	13.5	135* [a]	1	70-130/30
75-15-0	Carbon disulfide	10	11.7	117	11.4	114	3	70-130/30
108-90-7	Chlorobenzene	10	10.3	103	10.3	103	0	70-130/30
75-00-3	Chloroethane	10	11.4	114	11.1	111	3	70-130/30
67-66-3	Chloroform	10	11.9	119	11.6	116	3	70-130/30
74-87-3	Chloromethane	10	12.7	127	12.1	121	5	70-130/30
107-05-1	3-Chloropropene	10	11.1	111	11.0	110	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.5	105	0	70-130/30
56-23-5	Carbon tetrachloride	10	11.2	112	10.8	108	4	70-130/30
110-82-7	Cyclohexane	10	11.3	113	11.1	111	2	70-130/30
75-34-3	1,1-Dichloroethane	10	11.6	116	11.3	113	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	11.1	111	10.8	108	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.9	119	11.6	116	3	70-130/30
107-06-2	1,2-Dichloroethane	10	11.8	118	11.4	114	3	70-130/30
78-87-5	1,2-Dichloropropane	10	12.0	120	11.6	116	3	70-130/30
123-91-1	1,4-Dioxane	10	12.5	125	12.3	123	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.4	114	11.2	112	2	70-130/30
124-48-1	Dibromochloromethane	10	11.5	115	11.2	112	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.9	109	10.7	107	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	11.0	110	10.8	108	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.7	117	11.4	114	3	70-130/30
541-73-1	m-Dichlorobenzene	10	11.3	113	11.1	111	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.2	112	11.1	111	1	70-130/30
106-46-7	p-Dichlorobenzene	10	11.4	114	11.1	111	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.9	119	11.7	117	2	70-130/30
64-17-5	Ethanol	10	11.4	114	11.2	112	2	70-130/30
100-41-4	Ethylbenzene	10	11.2	112	11.0	110	2	70-130/30
141-78-6	Ethyl Acetate	10	12.3	123	12.0	120	2	70-130/30
622-96-8	4-Ethyltoluene	10	12.0	120	11.7	117	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W149-BS	7W03670.D	1	10/04/23	TS	n/a	n/a	V7W149
V7W149-BSD	7W03671.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.9	109	10.5	105	4	70-130/30
76-14-2	Freon 114	10	11.7	117	11.4	114	3	70-130/30
142-82-5	Heptane	10	12.9	129	12.5	125	3	70-130/30
87-68-3	Hexachlorobutadiene	10	11.2	112	11.0	110	2	70-130/30
110-54-3	Hexane	10	11.5	115	11.3	113	2	70-130/30
591-78-6	2-Hexanone	10	11.6	116	11.0	110	5	70-130/30
67-63-0	Isopropyl Alcohol	10	12.6	126	12.3	123	2	70-130/30
75-09-2	Methylene chloride	10	11.3	113	11.0	110	3	70-130/30
78-93-3	Methyl ethyl ketone	10	11.2	112	10.7	107	5	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	12.0	120	11.6	116	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	11.1	111	10.8	108	3	70-130/30
80-62-6	Methylmethacrylate	10	11.6	116	11.4	114	2	70-130/30
115-07-1	Propylene	10	11.1	111	10.7	107	4	70-130/30
100-42-5	Styrene	10	11.4	114	11.3	113	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	11.4	114	11.1	111	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	12.2	122	12.0	120	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	12.0	120	11.8	118	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	12.1	121	11.9	119	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.0	120	11.7	117	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.5	115	11.4	114	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	11.7	117	11.4	114	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.9	119	11.7	117	2	70-130/30
127-18-4	Tetrachloroethylene	10	10.5	105	10.1	101	4	70-130/30
109-99-9	Tetrahydrofuran	10	11.5	115	11.2	112	3	70-130/30
108-88-3	Toluene	10	11.3	113	10.9	109	4	70-130/30
79-01-6	Trichloroethylene	10	11.3	113	10.9	109	4	70-130/30
75-69-4	Trichlorofluoromethane	10	11.3	113	11.0	110	3	70-130/30
75-01-4	Vinyl chloride	10	11.7	117	11.6	116	1	70-130/30
108-05-4	Vinyl Acetate	10	11.8	118	11.4	114	3	70-130/30
	m,p-Xylene	20	22.3	112	22.0	110	1	70-130/30
95-47-6	o-Xylene	10	11.2	112	11.0	110	2	70-130/30
1330-20-7	Xylenes (total)	30	33.5	112	33.0	110	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W149-BS	7W03670.D	1	10/04/23	TS	n/a	n/a	V7W149
V7W149-BSD	7W03671.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	105%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-BS	8W01871.D	1	08/31/23	WC	n/a	n/a	V8W74
V8W74-BSD	8W01872.D	1	08/31/23	WC	n/a	n/a	V8W74

The QC reported here applies to the following samples: **Method:** TO-15

V8W74-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.4	84	8.1	81	4	70-130/30
106-99-0	1,3-Butadiene	10	9.5	95	9.3	93	2	70-130/30
71-43-2	Benzene	10	10	100	9.9	99	1	70-130/30
75-27-4	Bromodichloromethane	10	10.6	106	10.3	103	3	70-130/30
75-25-2	Bromoform	10	10	100	9.8	98	2	70-130/30
74-83-9	Bromomethane	10	9.0	90	8.7	87	3	70-130/30
593-60-2	Bromoethene	10	8.9	89	8.6	86	3	70-130/30
100-44-7	Benzyl Chloride	10	8.1	81	8.3	83	2	70-130/30
75-15-0	Carbon disulfide	10	10	100	9.6	96	4	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	9.7	97	1	70-130/30
75-00-3	Chloroethane	10	9.6	96	9.3	93	3	70-130/30
67-66-3	Chloroform	10	10.0	100	10	100	0	70-130/30
74-87-3	Chloromethane	10	9.7	97	9.5	95	2	70-130/30
107-05-1	3-Chloropropene	10	9.3	93	8.9	89	4	70-130/30
95-49-8	2-Chlorotoluene	10	10.2	102	10.1	101	1	70-130/30
56-23-5	Carbon tetrachloride	10	10.4	104	10.3	103	1	70-130/30
110-82-7	Cyclohexane	10	10.3	103	10.1	101	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10.6	106	10.6	106	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.9	89	8.5	85	5	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.4	104	10.2	102	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.1	101	0	70-130/30
78-87-5	1,2-Dichloropropane	10	10.5	105	10.5	105	0	70-130/30
123-91-1	1,4-Dioxane	10	11.1	111	10.6	106	5	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.1	91	8.8	88	3	70-130/30
124-48-1	Dibromochloromethane	10	10.4	104	10.2	102	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.1	101	10.0	100	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.5	105	10.2	102	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.6	106	10.4	104	2	70-130/30
541-73-1	m-Dichlorobenzene	10	10.1	101	10.0	100	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.2	102	10.0	100	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.2	102	10.1	101	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.0	100	9.9	99	1	70-130/30
64-17-5	Ethanol	10	8.8	88	8.6	86	2	70-130/30
100-41-4	Ethylbenzene	10	10.3	103	10.2	102	1	70-130/30
141-78-6	Ethyl Acetate	10	10.9	109	10.8	108	1	70-130/30
622-96-8	4-Ethyltoluene	10	11.1	111	11.0	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-BS	8W01871.D	1	08/31/23	WC	n/a	n/a	V8W74
V8W74-BSD	8W01872.D	1	08/31/23	WC	n/a	n/a	V8W74

The QC reported here applies to the following samples: **Method:** TO-15

V8W74-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.8	88	8.4	84	5	70-130/30
76-14-2	Freon 114	10	9.2	92	9.0	90	2	70-130/30
142-82-5	Heptane	10	10.4	104	10.3	103	1	70-130/30
87-68-3	Hexachlorobutadiene	10	9.9	99	9.8	98	1	70-130/30
110-54-3	Hexane	10	10.6	106	10.6	106	0	70-130/30
591-78-6	2-Hexanone	10	11.2	112	10.9	109	3	70-130/30
67-63-0	Isopropyl Alcohol	10	8.3	83	8.1	81	2	70-130/30
75-09-2	Methylene chloride	10	9.0	90	8.5	85	6	70-130/30
78-93-3	Methyl ethyl ketone	10	11.0	110	10.9	109	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.9	109	10.6	106	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	11.5	115	11.6	116	1	70-130/30
80-62-6	Methylmethacrylate	10	10.8	108	10.5	105	3	70-130/30
115-07-1	Propylene	10	10.8	108	10.6	106	2	70-130/30
100-42-5	Styrene	10	11.2	112	11.2	112	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.6	106	10.5	105	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.1	101	10.1	101	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.4	104	10.2	102	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.1	101	10	100	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.2	112	11.1	111	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.7	107	10.6	106	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.5	105	10.3	103	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.9	99	9.8	98	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.7	97	9.5	95	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.5	105	10.5	105	0	70-130/30
108-88-3	Toluene	10	10.1	101	9.9	99	2	70-130/30
79-01-6	Trichloroethylene	10	10.2	102	10.0	100	2	70-130/30
75-69-4	Trichlorofluoromethane	10	8.9	89	8.7	87	2	70-130/30
75-01-4	Vinyl chloride	10	9.3	93	9.0	90	3	70-130/30
108-05-4	Vinyl Acetate	10	11.0	110	11.1	111	1	70-130/30
	m,p-Xylene	20	20.9	105	20.8	104	0	70-130/30
95-47-6	o-Xylene	10	10.5	105	10.5	105	0	70-130/30
1330-20-7	Xylenes (total)	30	31.4	105	31.3	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-BS	8W01871.D	1	08/31/23	WC	n/a	n/a	V8W74
V8W74-BSD	8W01872.D	1	08/31/23	WC	n/a	n/a	V8W74

The QC reported here applies to the following samples: **Method:** TO-15

V8W74-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	103%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73925-3DUP	7W03681.D	1	10/04/23	TS	n/a	n/a	V7W149
JD73925-3	7W03680.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Compound	JD73925-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	9.8		10.1		3	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.63	J	0.67	J	6	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	0.92		0.89		3	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.43	J	ND		200* [a]	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	49.2		48.1		2	25
100-41-4	Ethylbenzene	0.59	J	0.58	J	2	25
141-78-6	Ethyl Acetate	0.91		1.1		19	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73925-3DUP	7W03681.D	1	10/04/23	TS	n/a	n/a	V7W149
JD73925-3	7W03680.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Compound	JD73925-3 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	1.6		2.3		36* [b]	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	42.7		44.0		3	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	1.2		1.2		0	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	0.39		0.39		0	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	3.3		3.4		3	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	18.3		18.4		1	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	1.8		1.9		5	25
95-47-6	o-Xylene	0.80		0.77	J	4	25
1330-20-7	Xylenes (total)	2.6		2.7		4	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD73925-3DUP	7W03681.D	1	10/04/23	TS	n/a	n/a	V7W149
JD73925-3	7W03680.D	1	10/04/23	TS	n/a	n/a	V7W149

The QC reported here applies to the following samples: **Method:** TO-15

JD73725-1

CAS No.	Surrogate Recoveries	DUP	JD73925-3	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

(a) RPD acceptable due to low DUP and sample concentrations.
(b) Outside control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-SCC	8W01891.D	1	09/01/23	WC	n/a	n/a	V8W74

The QC reported here (Summa A2389) applies to the following samples: **Method:** TO-15

Batch CP12405 cleaned 08/30/23: JD73725-1(A2352)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-SCC	8W01891.D	1	09/01/23	WC	n/a	n/a	V8W74

The QC reported here (Summa A2389) applies to the following samples: **Method:** TO-15

Batch CP12405 cleaned 08/30/23: JD73725-1(A2352)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W74-SCC	8W01891.D	1	09/01/23	WC	n/a	n/a	V8W74

The QC reported here (Summa A2389) applies to the following samples: **Method:** TO-15

Batch CP12405 cleaned 08/30/23: JD73725-1(A2352)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Instrument Performance Check (BFB)

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W138-BFB
Lab File ID: 7W03340.D
Instrument ID: GCMS7W
Injection Date: 09/21/23
Injection Time: 17:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13848	24.7		Pass
75	30.0 - 66.0% of mass 95	28051	50.0		Pass
95	Base peak, 100% relative abundance	56061	100.0		Pass
96	5.0 - 9.0% of mass 95	3511	6.26		Pass
173	Less than 2.0% of mass 174	287	0.51	(0.67) [a]	Pass
174	50.0 - 120.0% of mass 95	42587	76.0		Pass
175	4.0 - 9.01% of mass 174	3324	5.93	(7.81) [a]	Pass
176	93.0 - 101.0% of mass 174	41461	74.0	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2740	4.89	(6.61) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W138-IC0138	7W03346.D	09/21/23	20:58	03:24	Initial cal 5
V7W138-ICC0138	7W03347.D	09/21/23	21:33	03:59	Initial cal 10
V7W138-IC0138	7W03348.D	09/21/23	22:09	04:35	Initial cal 20
V7W138-IC0138	7W03349.D	09/21/23	22:49	05:15	Initial cal 40
V7W138-IC0138	7W03350.D	09/21/23	23:30	05:56	Initial cal 50
V7W138-IC0138	7W03357.D	09/22/23	10:39	17:05	Initial cal 0.04
V7W138-IC0138	7W03358.D	09/22/23	11:13	17:39	Initial cal 0.10
V7W138-IC0138	7W03359.D	09/22/23	11:47	18:13	Initial cal 0.20
V7W138-IC0138	7W03360.D	09/22/23	12:24	18:50	Initial cal 0.50
V7W138-ICV0138	7W03363.D	09/22/23	14:06	20:32	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V7W149-BFB	**Injection Date:**	10/04/23
Lab File ID:	7W03668.D	**Injection Time:**	08:10
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	15561	29.7		Pass
75	30.0 - 66.0% of mass 95	29491	56.2		Pass
95	Base peak, 100% relative abundance	52432	100.0		Pass
96	5.0 - 9.0% of mass 95	3459	6.60		Pass
173	Less than 2.0% of mass 174	469	0.89	(1.15) [a]	Pass
174	50.0 - 120.0% of mass 95	40832	77.9		Pass
175	4.0 - 9.01% of mass 174	2872	5.48	(7.03) [a]	Pass
176	93.0 - 101.0% of mass 174	39035	74.4	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2427	4.63	(6.22) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W149-CC138	7W03669.D	10/04/23	08:45	00:35	Continuing cal 10
V7W149-BS	7W03670.D	10/04/23	09:19	01:09	Blank Spike
V7W149-BSD	7W03671.D	10/04/23	09:53	01:43	Blank Spike Duplicate
V7W149-MB	7W03673.D	10/04/23	11:18	03:08	Method Blank
V7W149-SCC	7W03674.D	10/04/23	12:04	03:54	Summa Cleaning Certification
ZZZZZZ	7W03675.D	10/04/23	12:38	04:28	(unrelated sample)
ZZZZZZ	7W03676.D	10/04/23	13:12	05:02	(unrelated sample)
ZZZZZZ	7W03677.D	10/04/23	13:48	05:38	(unrelated sample)
ZZZZZZ	7W03678.D	10/04/23	14:23	06:13	(unrelated sample)
ZZZZZZ	7W03679.D	10/04/23	14:58	06:48	(unrelated sample)
JD73925-3	7W03680.D	10/04/23	15:33	07:23	(used for QC only; not part of job JD73725)
JD73925-3DUP	7W03681.D	10/04/23	16:07	07:57	Duplicate
ZZZZZZ	7W03682.D	10/04/23	16:42	08:32	(unrelated sample)
ZZZZZZ	7W03683.D	10/04/23	17:16	09:06	(unrelated sample)
ZZZZZZ	7W03684.D	10/04/23	17:52	09:42	(unrelated sample)
ZZZZZZ	7W03685.D	10/04/23	18:26	10:16	(unrelated sample)
ZZZZZZ	7W03686.D	10/04/23	19:02	10:52	(unrelated sample)
ZZZZZZ	7W03687.D	10/04/23	19:36	11:26	(unrelated sample)
ZZZZZZ	7W03688.D	10/04/23	20:11	12:01	(unrelated sample)
ZZZZZZ	7W03689.D	10/04/23	20:46	12:36	(unrelated sample)
ZZZZZZ	7W03690.D	10/04/23	21:21	13:11	(unrelated sample)
ZZZZZZ	7W03691.D	10/04/23	21:56	13:46	(unrelated sample)
ZZZZZZ	7W03692.D	10/04/23	22:30	14:20	(unrelated sample)
ZZZZZZ	7W03693.D	10/04/23	23:05	14:55	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V7W149-BFB	**Injection Date:**	10/04/23
Lab File ID:	7W03668.D	**Injection Time:**	08:10
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD73725-1	7W03695.D	10/05/23	00:17	16:07	SVE-EFF
V7W149-SCC	7W03700.D	10/05/23	03:10	19:00	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W62-BFB	**Injection Date:**	08/17/23
Lab File ID:	8W01496.D	**Injection Time:**	17:39
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10439	12.9		Pass
75	30.0 - 66.0% of mass 95	36059	44.4		Pass
95	Base peak, 100% relative abundance	81216	100.0		Pass
96	5.0 - 9.0% of mass 95	5950	7.33		Pass
173	Less than 2.0% of mass 174	440	0.54	(0.54) [a]	Pass
174	50.0 - 120.0% of mass 95	82168	101.2		Pass
175	4.0 - 9.01% of mass 174	5685	7.00	(6.92) [a]	Pass
176	93.0 - 101.0% of mass 174	78827	97.1	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	5236	6.45	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W62-IC0062	8W01497.D	08/17/23	18:12	00:33	Initial cal 0.04
V8W62-IC0062	8W01498.D	08/17/23	18:45	01:06	Initial cal 0.1
V8W62-IC0062	8W01499.D	08/17/23	19:19	01:40	Initial cal 0.2
V8W62-IC0062	8W01500.D	08/17/23	19:55	02:16	Initial cal 0.5
V8W62-IC0062	8W01502.D	08/17/23	21:00	03:21	Initial cal 5
V8W62-ICC0062	8W01503.D	08/17/23	21:35	03:56	Initial cal 10
V8W62-IC0062	8W01504.D	08/17/23	22:11	04:32	Initial cal 20
V8W62-IC0062	8W01505.D	08/17/23	22:51	05:12	Initial cal 40
V8W62-IC0062	8W01506.D	08/17/23	23:32	05:53	Initial cal 50
V8W62-ICV0062	8W01509.D	08/18/23	01:13	07:34	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W74-BFB	**Injection Date:**	08/31/23
Lab File ID:	8W01869.D	**Injection Time:**	11:07
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10497	11.7		Pass
75	30.0 - 66.0% of mass 95	39387	44.0		Pass
95	Base peak, 100% relative abundance	89445	100.0		Pass
96	5.0 - 9.0% of mass 95	6258	7.00		Pass
173	Less than 2.0% of mass 174	537	0.60	(0.61) [a]	Pass
174	50.0 - 120.0% of mass 95	87923	98.3		Pass
175	4.0 - 9.01% of mass 174	6163	6.89	(7.01) [a]	Pass
176	93.0 - 101.0% of mass 174	84973	95.0	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	5594	6.25	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W74-CC62	8W01870.D	08/31/23	11:41	00:34	Continuing cal 10
V8W74-BS	8W01871.D	08/31/23	12:34	01:27	Blank Spike
V8W74-BSD	8W01872.D	08/31/23	13:08	02:01	Blank Spike Duplicate
V8W74-MB	8W01875.D	08/31/23	15:40	04:33	Method Blank
ZZZZZZ	8W01876.D	08/31/23	16:15	05:08	(unrelated sample)
JD71790-1	8W01877.D	08/31/23	16:49	05:42	(used for QC only; not part of job JD73725)
JD71790-1DUP	8W01878.D	08/31/23	17:24	06:17	Duplicate
ZZZZZZ	8W01879.D	08/31/23	17:59	06:52	(unrelated sample)
ZZZZZZ	8W01880.D	08/31/23	18:32	07:25	(unrelated sample)
ZZZZZZ	8W01881.D	08/31/23	19:07	08:00	(unrelated sample)
ZZZZZZ	8W01882.D	08/31/23	19:41	08:34	(unrelated sample)
ZZZZZZ	8W01883.D	08/31/23	20:16	09:09	(unrelated sample)
ZZZZZZ	8W01884.D	08/31/23	20:51	09:44	(unrelated sample)
ZZZZZZ	8W01885.D	08/31/23	21:30	10:23	(unrelated sample)
ZZZZZZ	8W01886.D	08/31/23	22:11	11:04	(unrelated sample)
ZZZZZZ	8W01887.D	08/31/23	22:50	11:43	(unrelated sample)
ZZZZZZ	8W01888.D	08/31/23	23:30	12:23	(unrelated sample)
ZZZZZZ	8W01889.D	09/01/23	00:09	13:02	(unrelated sample)
V8W74-SCC	8W01891.D	09/01/23	01:17	14:10	Summa Cleaning Certification
V8W74-SCC	8W01892.D	09/01/23	01:51	14:44	Summa Cleaning Certification
V8W74-SCC	8W01893.D	09/01/23	02:25	15:18	Summa Cleaning Certification
V8W74-SCC	8W01894.D	09/01/23	02:58	15:51	Summa Cleaning Certification
V8W74-SCC	8W01895.D	09/01/23	03:32	16:25	Summa Cleaning Certification
V8W74-SCC	8W01896.D	09/01/23	04:06	16:59	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W74-BFB	**Injection Date:**	08/31/23
Lab File ID:	8W01869.D	**Injection Time:**	11:07
Instrument ID:	GCMS8W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W74-SCC	8W01897.D	09/01/23	04:40	17:33	Summa Cleaning Certification
V8W74-SCC	8W01898.D	09/01/23	05:14	18:07	Summa Cleaning Certification
V8W74-SCC	8W01899.D	09/01/23	05:48	18:41	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD73725
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD73725-1	7W03695.D	100
JD73925-3DUP	7W03681.D	102
V7W149-BS	7W03670.D	104
V7W149-BSD	7W03671.D	105
V7W149-MB	7W03673.D	100
V8W74-SCC	8W01891.D	100
V8W74-BS	8W01871.D	101
V8W74-BSD	8W01872.D	103
V8W74-MB	8W01875.D	100

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60707644

SGS Job Number: JD75592

Sampling Date: 10/26/23



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ros

Total number of pages in report: 37

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD75592

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60707644

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD75592-1	10/26/23	09:25	TD	10/27/23	AIR	Soil Vapor Comp.	SVE-EFF

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Raytheon Technologies Corporation	**Job No:**	JD75592
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	11/7/2023 3:38:24 AM

On 10/27/2023, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of XXXXNO TEMPERATURE FOUNDXXXX °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD75592 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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 TO-15

Matrix: AIR **Batch ID:** V3W3263

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD75537-1DUP were used as the QC samples indicated.
- The blank spike (BS) recovery(s) of Bromoform are outside control limits.
- JD75592-1 for Bromoform: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- V3W3263-BS for Bromoform: High percent recovery and no associated positive reported in the QC batch.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's 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 is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD75592
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/26/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD75592-1	**SVE-EFF**					
Acetone (2-Propanone)		7.7	0.80	0.58	ppbv	TO-15
Benzene		8.9	0.80	0.58	ppbv	TO-15
cis-1,2-Dichloroethylene		0.59 J	0.80	0.12	ppbv	TO-15
Ethanol		3.3	2.0	1.6	ppbv	TO-15
Ethyl Acetate		3.2	0.80	0.42	ppbv	TO-15
Isopropyl Alcohol		27.0	0.80	0.56	ppbv	TO-15
Methyl ethyl ketone		0.84	0.80	0.44	ppbv	TO-15
Tetrachloroethylene		154	0.16	0.056	ppbv	TO-15
Trichloroethylene		1.3	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		1.0	0.80	0.62	ppbv	TO-15
Acetone (2-Propanone)		18	1.9	1.4	ug/m3	TO-15
Benzene		28	2.6	1.9	ug/m3	TO-15
cis-1,2-Dichloroethylene		2.3 J	3.2	0.48	ug/m3	TO-15
Ethanol		6.2	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		12	2.9	1.5	ug/m3	TO-15
Isopropyl Alcohol		66.4	2.0	1.4	ug/m3	TO-15
Methyl ethyl ketone		2.5	2.4	1.3	ug/m3	TO-15
Tetrachloroethylene		1040	1.1	0.38	ug/m3	TO-15
Trichloroethylene		7.0	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		5.6	4.5	3.5	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD75592-1 **Date Sampled:** 10/26/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A1923 **Date Received:** 10/27/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W82887.D	1	11/04/23 05:17	TCH	n/a	n/a	V3W3263
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	7.7	0.80	0.58	ppbv		18	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	8.9	0.80	0.58	ppbv		28	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform [a]	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.59	0.80	0.12	ppbv	J	2.3	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD75592-1 **Date Sampled:** 10/26/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A1923 **Date Received:** 10/27/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	3.3	2.0	1.6	ppbv		6.2	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	3.2	0.80	0.42	ppbv		12	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	27.0	0.80	0.56	ppbv		66.4	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.84	0.80	0.44	ppbv		2.5	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	154	0.16	0.056	ppbv		1040	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.3	0.16	0.076	ppbv		7.0	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.0	0.80	0.62	ppbv		5.6	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

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:	SVE-EFF		
Lab Sample ID:	JD75592-1	**Date Sampled:**	10/26/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1923	**Date Received:**	10/27/23
Method:	TO-15	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

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
- Summa Canister and Flow Controller Log

SGS

Air

CHAIN OF CUSTODY - AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

PAGE 1 OF 1

FED-EX Tracking # 7003 7832 7400
Bottle Order Control # BW-10923-177
SGS Quote #
SGS Job # JD75592

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd.
City: Raleigh State: NC Zip: 29607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100
Sampler(s) Name(s):

Project Information

Project Name: Delavan SVE
Street: 4334 Main Hwy.
City: Bamberg State: SC
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 60°F Maximum:
Stop: 60°F Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: 30.30 Maximum:
Stop: 30.30 Minimum:
Other weather comment:

Requested Analysis

TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Sampling Equipment Info: Canister Size 6L or 1L	Sampling Equipment Info: Flow Controller Serial #	Start Sampling Information: Date	Start: Time (24hr clock)	Start: Canister Pressure ("Hg)	Start: Interior Temp (F)	Start: Sampler Init.	Stop Sampling Information: Date	Stop: Time (24hr clock)	Stop: Canister Pressure ("Hg)	Stop: Interior Temp (F)	Stop: Sampler Init.	TO-15
1	SVE-EFF	SV	NR	A1923	1L	FC1070	10/26/23	0920	30	—	TD	10/26/23	0925	0	—	TD	X

Turnaround Time (Business days)

- [X] 15 Business Days
- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days *
- [ ] 2 Business Days *
- [ ] 1 Business Day *
- [ ] Other

Approved By:
Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks

Initial Assessment YBM
Label Verification
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory 1	Date / Time: 10/26/23	0805	Received By: 1	Relinquished By: 2 Tim DicKey	Date / Time: 10/26/23 10:00	Received By: 2 Delavan FedEx Shipping	
Relinquished by: 3 Fed Ex	Date / Time: 10/27/23 10:20		Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4	
Relinquished by: 5	Date / Time:		Received By: 5	Custody Seal #			

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

JD75592: Chain of Custody
Page 1 of 2

5.1 5

SGS Sample Receipt Summary

Job Number: JD75592 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNOL

Date / Time Received: 10/27/2023 10:20:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7003 7832 7400

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 10/27/23

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1923	1.4	30	10/19/23	ML	CP12458	8W02718.D	JD75592-1	10/27/23	DG	0			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1070	10/19/23	ML	187	.0833	10/27/23	DG	185	1.1	Flow Controller

SGS Bottle Order(s):
BW-101923-172

Prep Date	Room Temp(F)	Bar Pres "Hg
10/19/23	70	29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3263-MB	3W82864.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3263-MB	3W82864.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3263-MB	3W82864.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	92%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	4.02	22	ppbv	J
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-MB	3W82456.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here applies to the following samples: **Method:** TO-15

V3W3248-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-MB	3W82456.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here applies to the following samples: **Method:** TO-15

V3W3248-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-MB	3W82456.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here applies to the following samples: **Method:** TO-15

V3W3248-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3263-BS	3W82861.D	1	11/03/23	TCH	n/a	n/a	V3W3263
V3W3263-BSD	3W82862.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.8	88	8.7	87	1	70-130/30
106-99-0	1,3-Butadiene	10	11.3	113	11.1	111	2	70-130/30
71-43-2	Benzene	10	10.1	101	10.1	101	0	70-130/30
75-27-4	Bromodichloromethane	10	11.0	110	10.9	109	1	70-130/30
75-25-2	Bromoform	10	14.4	144* [a]	13.9	139* [a]	4	70-130/30
74-83-9	Bromomethane	10	9.9	99	9.8	98	1	70-130/30
593-60-2	Bromoethene	10	10.6	106	10.5	105	1	70-130/30
100-44-7	Benzyl Chloride	10	12.8	128	12.6	126	2	70-130/30
75-15-0	Carbon disulfide	10	10.1	101	10.0	100	1	70-130/30
108-90-7	Chlorobenzene	10	11.3	113	11.1	111	2	70-130/30
75-00-3	Chloroethane	10	10.5	105	10.4	104	1	70-130/30
67-66-3	Chloroform	10	10.3	103	10.2	102	1	70-130/30
74-87-3	Chloromethane	10	10.7	107	10.7	107	0	70-130/30
107-05-1	3-Chloropropene	10	10.1	101	10.0	100	1	70-130/30
95-49-8	2-Chlorotoluene	10	11.6	116	11.4	114	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.3	103	10.2	102	1	70-130/30
110-82-7	Cyclohexane	10	10	100	9.9	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.1	101	10.1	101	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.5	105	10.3	103	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.9	119	11.7	117	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.3	103	10.2	102	1	70-130/30
78-87-5	1,2-Dichloropropane	10	10.7	107	10.6	106	1	70-130/30
123-91-1	1,4-Dioxane	10	10.4	104	10.4	104	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.2	102	10.2	102	0	70-130/30
124-48-1	Dibromochloromethane	10	12.4	124	12.1	121	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.7	107	10.5	105	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.6	106	10.5	105	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.8	108	10.7	107	1	70-130/30
541-73-1	m-Dichlorobenzene	10	12.4	124	12.1	121	2	70-130/30
95-50-1	o-Dichlorobenzene	10	12.0	120	11.8	118	2	70-130/30
106-46-7	p-Dichlorobenzene	10	12.1	121	12.0	120	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.9	109	10.8	108	1	70-130/30
64-17-5	Ethanol	10	10.3	103	10.1	101	2	70-130/30
100-41-4	Ethylbenzene	10	11.3	113	11.2	112	1	70-130/30
141-78-6	Ethyl Acetate	10	11.1	111	11.0	110	1	70-130/30
622-96-8	4-Ethyltoluene	10	12.2	122	11.9	119	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3263-BS	3W82861.D	1	11/03/23	TCH	n/a	n/a	V3W3263
V3W3263-BSD	3W82862.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.6	106	10.4	104	2	70-130/30
76-14-2	Freon 114	10	10.4	104	10.4	104	0	70-130/30
142-82-5	Heptane	10	11.2	112	11.1	111	1	70-130/30
87-68-3	Hexachlorobutadiene	10	11.6	116	11.3	113	3	70-130/30
110-54-3	Hexane	10	10.5	105	10.4	104	1	70-130/30
591-78-6	2-Hexanone	10	11.7	117	11.6	116	1	70-130/30
67-63-0	Isopropyl Alcohol	10	10.3	103	10.2	102	1	70-130/30
75-09-2	Methylene chloride	10	10.1	101	9.9	99	2	70-130/30
78-93-3	Methyl ethyl ketone	10	10.3	103	10.3	103	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.9	109	10.9	109	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.6	96	9.6	96	0	70-130/30
80-62-6	Methylmethacrylate	10	10.7	107	10.6	106	1	70-130/30
115-07-1	Propylene	10	10.5	105	10.5	105	0	70-130/30
100-42-5	Styrene	10	11.8	118	11.7	117	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.3	103	10.2	102	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.8	118	11.6	116	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	11.0	110	10.9	109	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.9	119	11.7	117	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.2	122	12.0	120	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.8	118	11.6	116	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	11.1	111	10.9	109	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.1	101	10.1	101	0	70-130/30
127-18-4	Tetrachloroethylene	10	11.1	111	10.9	109	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.3	103	10.3	103	0	70-130/30
108-88-3	Toluene	10	10.7	107	10.7	107	0	70-130/30
79-01-6	Trichloroethylene	10	11.0	110	10.7	107	3	70-130/30
75-69-4	Trichlorofluoromethane	10	10.4	104	10.3	103	1	70-130/30
75-01-4	Vinyl chloride	10	10.6	106	10.4	104	2	70-130/30
108-05-4	Vinyl Acetate	10	10.0	100	10	100	0	70-130/30
	m,p-Xylene	20	23.1	116	22.9	115	1	70-130/30
95-47-6	o-Xylene	10	11.9	119	11.7	117	2	70-130/30
1330-20-7	Xylenes (total)	30	35.0	117	34.6	115	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3263-BS	3W82861.D	1	11/03/23	TCH	n/a	n/a	V3W3263
V3W3263-BSD	3W82862.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-BS	3W82453.D	1	10/16/23	WC	n/a	n/a	V3W3248
V3W3248-BSD	3W82454.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here applies to the following samples: **Method:** TO-15

V3W3248-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.8	88	8.6	86	2	70-130/30
106-99-0	1,3-Butadiene	10	10.6	106	10.3	103	3	70-130/30
71-43-2	Benzene	10	10.1	101	10	100	1	70-130/30
75-27-4	Bromodichloromethane	10	10.7	107	10.5	105	2	70-130/30
75-25-2	Bromoform	10	11.6	116	11.5	115	1	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.6	96	2	70-130/30
593-60-2	Bromoethene	10	10.4	104	10.3	103	1	70-130/30
100-44-7	Benzyl Chloride	10	11.8	118	11.6	116	2	70-130/30
75-15-0	Carbon disulfide	10	10.3	103	10.2	102	1	70-130/30
108-90-7	Chlorobenzene	10	10.5	105	10.3	103	2	70-130/30
75-00-3	Chloroethane	10	10.7	107	10.5	105	2	70-130/30
67-66-3	Chloroform	10	10.3	103	10.0	100	3	70-130/30
74-87-3	Chloromethane	10	9.9	99	9.7	97	2	70-130/30
107-05-1	3-Chloropropene	10	10.5	105	10.4	104	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.3	103	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.1	101	9.8	98	3	70-130/30
110-82-7	Cyclohexane	10	10	100	9.9	99	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.2	102	10.0	100	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.4	104	10.2	102	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.8	108	10.6	106	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.3	103	9.9	99	4	70-130/30
78-87-5	1,2-Dichloropropane	10	10.7	107	10.5	105	2	70-130/30
123-91-1	1,4-Dioxane	10	10.6	106	10.4	104	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.1	101	9.7	97	4	70-130/30
124-48-1	Dibromochloromethane	10	10.9	109	10.7	107	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.6	106	10.5	105	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.6	106	10.4	104	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.1	111	10.9	109	2	70-130/30
541-73-1	m-Dichlorobenzene	10	10.6	106	10.5	105	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.3	103	10.2	102	1	70-130/30
106-46-7	p-Dichlorobenzene	10	10.6	106	10.4	104	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.1	111	10.9	109	2	70-130/30
64-17-5	Ethanol	10	9.2	92	8.8	88	4	70-130/30
100-41-4	Ethylbenzene	10	10.6	106	10.6	106	0	70-130/30
141-78-6	Ethyl Acetate	10	11.2	112	11.0	110	2	70-130/30
622-96-8	4-Ethyltoluene	10	11.0	110	10.7	107	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-BS	3W82453.D	1	10/16/23	WC	n/a	n/a	V3W3248
V3W3248-BSD	3W82454.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here applies to the following samples: **Method:** TO-15

V3W3248-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.9	99	9.8	98	1	70-130/30
76-14-2	Freon 114	10	10.6	106	10.2	102	4	70-130/30
142-82-5	Heptane	10	10.3	103	10.0	100	3	70-130/30
87-68-3	Hexachlorobutadiene	10	9.8	98	9.7	97	1	70-130/30
110-54-3	Hexane	10	10.5	105	10.3	103	2	70-130/30
591-78-6	2-Hexanone	10	11.2	112	10.9	109	3	70-130/30
67-63-0	Isopropyl Alcohol	10	9.5	95	9.3	93	2	70-130/30
75-09-2	Methylene chloride	10	9.9	99	9.8	98	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10.8	108	10.7	107	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.9	109	10.6	106	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	9.9	99	2	70-130/30
80-62-6	Methylmethacrylate	10	11.4	114	10.9	109	4	70-130/30
115-07-1	Propylene	10	9.5	95	9.1	91	4	70-130/30
100-42-5	Styrene	10	11.0	110	10.8	108	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.1	101	9.9	99	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.9	109	10.5	105	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.7	107	10.5	105	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.6	106	10.6	106	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.0	110	10.7	107	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.7	107	10.5	105	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.8	108	10.5	105	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.1	101	9.9	99	2	70-130/30
127-18-4	Tetrachloroethylene	10	9.6	96	9.5	95	1	70-130/30
109-99-9	Tetrahydrofuran	10	10.9	109	10.7	107	2	70-130/30
108-88-3	Toluene	10	10.6	106	10.5	105	1	70-130/30
79-01-6	Trichloroethylene	10	10.9	109	10.7	107	2	70-130/30
75-69-4	Trichlorofluoromethane	10	10	100	9.8	98	2	70-130/30
75-01-4	Vinyl chloride	10	10.6	106	10.4	104	2	70-130/30
108-05-4	Vinyl Acetate	10	10	100	9.9	99	1	70-130/30
	m,p-Xylene	20	21.6	108	21.3	107	1	70-130/30
95-47-6	o-Xylene	10	11.0	110	10.8	108	2	70-130/30
1330-20-7	Xylenes (total)	30	32.6	109	32.1	107	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-BS	3W82453.D	1	10/16/23	WC	n/a	n/a	V3W3248
V3W3248-BSD	3W82454.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here applies to the following samples: **Method:** TO-15

V3W3248-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD75537-1DUP	3W82867.D	1	11/03/23	TCH	n/a	n/a	V3W3263
JD75537-1	3W82866.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Compound	JD75537-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	5.6		5.9		5	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.70		0.75		7	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	1.0		1.1		10	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	0.30		0.33		10	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.42		0.44		5	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	23.9		25.4		6	25
100-41-4	Ethylbenzene	0.12	J	0.13	J	8	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD75537-1DUP	3W82867.D	1	11/03/23	TCH	n/a	n/a	V3W3263
JD75537-1	3W82866.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Compound	JD75537-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	0.45		0.48		6	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.84		0.88		5	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	0.43		0.45		5	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	0.61		0.60		2	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	0.13	J	0.14	J	7	25
75-65-0	Tertiary Butyl Alcohol	0.11	J	0.12	J	9	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.76		0.82		8	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.23		0.24		4	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	0.33		0.35		6	25
95-47-6	o-Xylene	0.13	J	0.15	J	14	25
1330-20-7	Xylenes (total)	0.46		0.50		8	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD75537-1DUP	3W82867.D	1	11/03/23	TCH	n/a	n/a	V3W3263
JD75537-1	3W82866.D	1	11/03/23	TCH	n/a	n/a	V3W3263

The QC reported here applies to the following samples: **Method:** TO-15

JD75592-1

CAS No.	Surrogate Recoveries	DUP	JD75537-1	Limits
460-00-4	4-Bromofluorobenzene	107%	101%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-SCC	3W82457.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here (Summa A2417) applies to the following samples: **Method:** TO-15

Batch CP12458 cleaned 10/11/23: JD75592-1(A1923)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-SCC	3W82457.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here (Summa A2417) applies to the following samples: **Method:** TO-15

Batch CP12458 cleaned 10/11/23: JD75592-1(A1923)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3248-SCC	3W82457.D	1	10/16/23	WC	n/a	n/a	V3W3248

The QC reported here (Summa A2417) applies to the following samples: **Method:** TO-15

Batch CP12458 cleaned 10/11/23: JD75592-1(A1923)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Instrument Performance Check (BFB)

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3236-BFB	**Injection Date:**	09/29/23
Lab File ID:	3W82140.D	**Injection Time:**	22:25
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	39109	23.3		Pass
75	30.0 - 66.0% of mass 95	78699	46.9		Pass
95	Base peak, 100% relative abundance	167744	100.0		Pass
96	5.0 - 9.0% of mass 95	10910	6.50		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	138421	82.5		Pass
175	4.0 - 9.01% of mass 174	10480	6.25	(7.57) [a]	Pass
176	93.0 - 101.0% of mass 174	136784	81.5	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	8860	5.28	(6.48) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3236-IC3236	3W82141.D	09/29/23	23:04	00:39	Initial cal 0.04
V3W3236-IC3236	3W82142.D	09/29/23	23:44	01:19	Initial cal 0.1
V3W3236-IC3236	3W82143.D	09/30/23	00:25	02:00	Initial cal 0.2
V3W3236-IC3236	3W82144.D	09/30/23	01:07	02:42	Initial cal 0.5
V3W3236-IC3236	3W82146.D	09/30/23	02:27	04:02	Initial cal 5
V3W3236-ICC3236	3W82147.D	09/30/23	03:08	04:43	Initial cal 10
V3W3236-IC3236	3W82148.D	09/30/23	03:50	05:25	Initial cal 20
V3W3236-IC3236	3W82149.D	09/30/23	04:36	06:11	Initial cal 40
V3W3236-IC3236	3W82150.D	09/30/23	05:24	06:59	Initial cal 50
V3W3236-ICV3236	3W82153.D	09/30/23	07:31	09:06	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3248-BFB
Lab File ID: 3W82451.D
Instrument ID: GCMS3W
Injection Date: 10/16/23
Injection Time: 09:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	47354	21.6		Pass
75	30.0 - 66.0% of mass 95	103493	47.1		Pass
95	Base peak, 100% relative abundance	219605	100.0		Pass
96	5.0 - 9.0% of mass 95	14805	6.74		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	172416	78.5		Pass
175	4.0 - 9.01% of mass 174	12783	5.82	(7.41) [a]	Pass
176	93.0 - 101.0% of mass 174	167381	76.2	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	11477	5.23	(6.86) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3248-CC3236	3W82452.D	10/16/23	10:25	00:42	Continuing cal 10
V3W3248-BS	3W82453.D	10/16/23	11:08	01:25	Blank Spike
V3W3248-BSD	3W82454.D	10/16/23	11:50	02:07	Blank Spike Duplicate
V3W3248-MB	3W82456.D	10/16/23	13:24	03:41	Method Blank
V3W3248-SCC	3W82457.D	10/16/23	14:47	05:04	Summa Cleaning Certification
V3W3248-SCC	3W82458.D	10/16/23	15:28	05:45	Summa Cleaning Certification
V3W3248-SCC	3W82459.D	10/16/23	16:09	06:26	Summa Cleaning Certification
JD74718-1	3W82460.D	10/16/23	16:55	07:12	(used for QC only; not part of job JD75592)
JD74718-1DUP	3W82461.D	10/16/23	17:42	07:59	Duplicate
ZZZZZZ	3W82462.D	10/16/23	18:28	08:45	(unrelated sample)
ZZZZZZ	3W82463.D	10/16/23	19:15	09:32	(unrelated sample)
ZZZZZZ	3W82464.D	10/16/23	20:01	10:18	(unrelated sample)
ZZZZZZ	3W82465.D	10/16/23	20:47	11:04	(unrelated sample)
ZZZZZZ	3W82466.D	10/16/23	21:34	11:51	(unrelated sample)
ZZZZZZ	3W82468.D	10/16/23	23:06	13:23	(unrelated sample)
ZZZZZZ	3W82469.D	10/16/23	23:53	14:10	(unrelated sample)
ZZZZZZ	3W82470.D	10/17/23	00:40	14:57	(unrelated sample)
ZZZZZZ	3W82471.D	10/17/23	01:26	15:43	(unrelated sample)
ZZZZZZ	3W82472.D	10/17/23	02:20	16:37	(unrelated sample)
ZZZZZZ	3W82473.D	10/17/23	03:06	17:23	(unrelated sample)
ZZZZZZ	3W82474.D	10/17/23	03:52	18:09	(unrelated sample)
ZZZZZZ	3W82475.D	10/17/23	04:39	18:56	(unrelated sample)
ZZZZZZ	3W82476.D	10/17/23	05:30	19:47	(unrelated sample)
ZZZZZZ	3W82477.D	10/17/23	06:16	20:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3248-BFB	**Injection Date:**	10/16/23
Lab File ID:	3W82451.D	**Injection Time:**	09:43
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W82478.D	10/17/23	07:02	21:19	(unrelated sample)
ZZZZZZ	3W82479.D	10/17/23	07:53	22:10	(unrelated sample)
ZZZZZZ	3W82480.D	10/17/23	08:39	22:56	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3263-BFB
Lab File ID: 3W82859.D
Instrument ID: GCMS3W
Injection Date: 11/03/23
Injection Time: 09:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	40088	25.3		Pass
75	30.0 - 66.0% of mass 95	76163	48.0		Pass
95	Base peak, 100% relative abundance	158613	100.0		Pass
96	5.0 - 9.0% of mass 95	11045	6.96		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	140731	88.7		Pass
175	4.0 - 9.01% of mass 174	10718	6.76	(7.62) [a]	Pass
176	93.0 - 101.0% of mass 174	136171	85.9	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	9210	5.81	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3263-CC3236	3W82860.D	11/03/23	10:12	00:42	Continuing cal 10
V3W3263-BS	3W82861.D	11/03/23	10:55	01:25	Blank Spike
V3W3263-BSD	3W82862.D	11/03/23	11:36	02:06	Blank Spike Duplicate
V3W3263-MB	3W82864.D	11/03/23	13:14	03:44	Method Blank
ZZZZZZ	3W82865.D	11/03/23	14:02	04:32	(unrelated sample)
JD75537-1	3W82866.D	11/03/23	14:48	05:18	(used for QC only; not part of job JD75592)
JD75537-1DUP	3W82867.D	11/03/23	15:35	06:05	Duplicate
ZZZZZZ	3W82869.D	11/03/23	16:56	07:26	(unrelated sample)
ZZZZZZ	3W82871.D	11/03/23	18:17	08:47	(unrelated sample)
ZZZZZZ	3W82873.D	11/03/23	19:41	10:11	(unrelated sample)
ZZZZZZ	3W82875.D	11/03/23	21:03	11:33	(unrelated sample)
ZZZZZZ	3W82877.D	11/03/23	22:24	12:54	(unrelated sample)
ZZZZZZ	3W82879.D	11/03/23	23:44	14:14	(unrelated sample)
ZZZZZZ	3W82881.D	11/04/23	01:08	15:38	(unrelated sample)
ZZZZZZ	3W82883.D	11/04/23	02:30	17:00	(unrelated sample)
ZZZZZZ	3W82884.D	11/04/23	03:12	17:42	(unrelated sample)
ZZZZZZ	3W82885.D	11/04/23	03:54	18:24	(unrelated sample)
ZZZZZZ	3W82886.D	11/04/23	04:35	19:05	(unrelated sample)
JD75592-1	3W82887.D	11/04/23	05:17	19:47	SVE-EFF
ZZZZZZ	3W82888.D	11/04/23	05:59	20:29	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD75592
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD75592-1	3W82887.D	98
JD75537-1DUP	3W82867.D	107
V3W3248-SCC	3W82457.D	100
V3W3263-BS	3W82861.D	102
V3W3263-BSD	3W82862.D	101
V3W3263-MB	3W82864.D	92
V3W3248-BS	3W82453.D	102
V3W3248-BSD	3W82454.D	101
V3W3248-MB	3W82456.D	97

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60707644

SGS Job Number: JD78190

Sampling Date: 11/28/23



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ros

Total number of pages in report: **38**

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD78190

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60707644

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD78190-1	11/28/23	10:00	TD	12/06/23	AIR	Soil Vapor Comp.	SVE-EFF

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Raytheon Technologies Corporation	**Job No:**	JD78190
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	12/18/2023 6:37:47 A

On 12/06/2023, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS). The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD78190 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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 TO-15

Matrix: AIR **Batch ID:** V7W180

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD78632-1DUP were used as the QC samples indicated.
- The blank spike (BS) recovery(s) of Dibromochloromethane are outside control limits.
- The duplicate RPD(s) for Isopropyl Alcohol, m,p-Xylene are outside control limits for sample JD78632-1DUP. Probable cause due to sample homogeneity.
- JD78190-1 for Dibromochloromethane: This compound in blank spike is outside in house QC limits bias high.
- V7W180-BS for Dibromochloromethane: High percent recovery and no associated positive reported in the QC batch.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's 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 is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD78190
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/28/23

Lab Sample ID / Analyte	Client Sample ID / Result/ Qual	RL	MDL	Units	Method
JD78190-1	**SVE-EFF**				
Acetone (2-Propanone)	10.9	0.80	0.58	ppbv	TO-15
Benzene	33.4	0.80	0.58	ppbv	TO-15
cis-1,2-Dichloroethylene	0.51 J	0.80	0.12	ppbv	TO-15
Ethanol	4.2	2.0	1.6	ppbv	TO-15
Ethyl Acetate	3.4	0.80	0.42	ppbv	TO-15
Hexane	0.75 J	0.80	0.21	ppbv	TO-15
Isopropyl Alcohol	31.2	0.80	0.56	ppbv	TO-15
Methylene chloride	0.88	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	1.8	0.80	0.44	ppbv	TO-15
Tetrachloroethylene	114	0.16	0.056	ppbv	TO-15
Toluene	3.3	0.80	0.23	ppbv	TO-15
Trichloroethylene	1.1	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane	0.78 J	0.80	0.62	ppbv	TO-15
m,p-Xylene	0.68 J	0.80	0.56	ppbv	TO-15
Xylenes (total)	0.68 J	0.80	0.31	ppbv	TO-15
Acetone (2-Propanone)	25.9	1.9	1.4	ug/m3	TO-15
Benzene	107	2.6	1.9	ug/m3	TO-15
cis-1,2-Dichloroethylene	2.0 J	3.2	0.48	ug/m3	TO-15
Ethanol	7.9	3.8	3.0	ug/m3	TO-15
Ethyl Acetate	12	2.9	1.5	ug/m3	TO-15
Hexane	2.6 J	2.8	0.74	ug/m3	TO-15
Isopropyl Alcohol	76.7	2.0	1.4	ug/m3	TO-15
Methylene chloride	3.1	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	5.3	2.4	1.3	ug/m3	TO-15
Tetrachloroethylene	773	1.1	0.38	ug/m3	TO-15
Toluene	12	3.0	0.87	ug/m3	TO-15
Trichloroethylene	5.9	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane	4.4 J	4.5	3.5	ug/m3	TO-15
m,p-Xylene	3.0 J	3.5	2.4	ug/m3	TO-15
Xylenes (total)	3.0 J	3.5	1.3	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD78190-1 **Date Sampled:** 11/28/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A2323 **Date Received:** 12/06/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W04545.D	1	12/13/23 23:32	TS	n/a	n/a	V7W180
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	10.9	0.80	0.58	ppbv		25.9	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	33.4	0.80	0.58	ppbv		107	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane [a]	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.51	0.80	0.12	ppbv	J	2.0	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD78190-1 **Date Sampled:** 11/28/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A2323 **Date Received:** 12/06/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	4.2	2.0	1.6	ppbv		7.9	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	3.4	0.80	0.42	ppbv		12	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	0.75	0.80	0.21	ppbv	J	2.6	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	31.2	0.80	0.56	ppbv		76.7	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	0.88	0.80	0.22	ppbv		3.1	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.8	0.80	0.44	ppbv		5.3	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	114	0.16	0.056	ppbv		773	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	3.3	0.80	0.23	ppbv		12	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.1	0.16	0.076	ppbv		5.9	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.78	0.80	0.62	ppbv	J	4.4	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	0.68	0.80	0.56	ppbv	J	3.0	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	0.68	0.80	0.31	ppbv	J	3.0	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

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

Report of Analysis

Client Sample ID:	SVE-EFF		
Lab Sample ID:	JD78190-1	**Date Sampled:**	11/28/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A2323	**Date Received:**	12/06/23
Method:	TO-15	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) This compound in blank spike is outside in house QC limits bias high.

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

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

SGS AIR

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #: 7903 7833 7857 | Bottle Order Control #: BW-111323-23
SGS Quote #: | SGS Job #: JD78190

Client / Reporting Information
Company Name: AECOM
Address: 5438 Wade Park Blvd.
City: Raleigh State: NC Zip: 29607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100
Sampler(s) Name(s): Tim DicKey

Project Information
Project Name: Delaven SVE
Street: 4334 Main Hwy.
City: Bamberg State: SC
Project #:
Client Purchase Order #:

Weather Parameters
Temperature (Fahrenheit) Start: 46° Maximum: Stop: 45° Minimum:
Atmospheric Pressure (inches of Hg) Start: 30.22 Maximum: Stop: 30.22 Minimum:
Other weather comment:

Requested Analysis
TO-15: X

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Sampling Equipment Info: Canister Size 6L or 1L	Sampling Equipment Info: Flow Controller Serial #	Start Sampling Information: Date	Start Sampling Information: Time (24hr clock)	Start Sampling Information: Canister Pressure ("Hg)	Start Sampling Information: Interior Temp (F)	Start Sampling Information: Sampler Init.	Stop Sampling Information: Date	Stop Sampling Information: Time (24hr clock)	Stop Sampling Information: Canister Pressure ("Hg)	Stop Sampling Information: Interior Temp (F)	Stop Sampling Information: Sampler Init.
1	SVE-EFF	SV	NR	A2323	1L	FC255	11/28/23	0955	29.5	—	TD	11/28/23	1000	0	—	TD

Turnaround Time (Business days)
X 15 Business Days
10 Business Days
5 Business Days
3 Business Days
2 Business Days
1 Business Day
Other
Approved By:
Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information
All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Laboratory	Date / Time		Received By	Relinquished By	Date / Time	Received By
1		13/1DEM		1 Tim DicKey / AECOM	2 Tim DicKey / AECOM	11/28/23 · 1330	2 FedEx-Delaven Shipping
3	Fedex	12/6/23 10:15		3 Jennings	4		4
5				5	Custody Seal #		

http://www.sgs.com/en/terms-and-conditions

Initial Assessment YB EC

Label Verification

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

JD78190: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD78190 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 12/6/2023 10:15:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 700378337857

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD78190: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 12/06/23

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A2323	1.4	29.4	11/17/23	ML	CP12495	8W02830.D	JD78190-1	12/07/23	DG		.6		1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC255	11/17/23	ML	188	.0833	12/07/23	DG	182	3.2	Flow Controller

SGS Bottle Order(s):
BW-111323-173

Prep Date	Room Temp(F)	Bar Pres "Hg
11/17/23	70	29.92

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W180-MB	7W04527.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W180-MB	7W04527.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W180-MB	7W04527.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	65-128%

Method Blank Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-MB	8W02816.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here applies to the following samples: **Method:** TO-15

V8W113-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-MB	8W02816.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here applies to the following samples: **Method:** TO-15

V8W113-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-MB	8W02816.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here applies to the following samples: **Method:** TO-15

V8W113-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	104%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W180-BS	7W04524.D	1	12/13/23	TS	n/a	n/a	V7W180
V7W180-BSD	7W04525.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.2	102	10.0	100	2	70-130/30
106-99-0	1,3-Butadiene	10	11.3	113	11.0	110	3	70-130/30
71-43-2	Benzene	10	10.4	104	10.3	103	1	70-130/30
75-27-4	Bromodichloromethane	10	12.3	123	12.3	123	0	70-130/30
75-25-2	Bromoform	10	12.3	123	12.3	123	0	70-130/30
74-83-9	Bromomethane	10	10.5	105	10.4	104	1	70-130/30
593-60-2	Bromoethene	10	11.4	114	11.2	112	2	70-130/30
100-44-7	Benzyl Chloride	10	7.7	77	7.9	79	3	70-130/30
75-15-0	Carbon disulfide	10	11.3	113	11.2	112	1	70-130/30
108-90-7	Chlorobenzene	10	10.6	106	10.7	107	1	70-130/30
75-00-3	Chloroethane	10	11.4	114	11.3	113	1	70-130/30
67-66-3	Chloroform	10	10.8	108	10.7	107	1	70-130/30
74-87-3	Chloromethane	10	11.4	114	11.2	112	2	70-130/30
107-05-1	3-Chloropropene	10	11.1	111	10.9	109	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.8	108	10.9	109	1	70-130/30
56-23-5	Carbon tetrachloride	10	12.1	121	12.0	120	1	70-130/30
110-82-7	Cyclohexane	10	10.3	103	10.4	104	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.5	105	10.3	103	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.8	108	10.7	107	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.1	111	11.2	112	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.8	108	10.6	106	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	10.3	103	2	70-130/30
123-91-1	1,4-Dioxane	10	10.2	102	10.3	103	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.1	111	10.9	109	2	70-130/30
124-48-1	Dibromochloromethane	10	13.2	132* [a]	13.1	131* [a]	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	10.1	101	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.5	105	10.2	102	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.9	109	10.9	109	0	70-130/30
541-73-1	m-Dichlorobenzene	10	11.4	114	11.3	113	1	70-130/30
95-50-1	o-Dichlorobenzene	10	11.2	112	11.2	112	0	70-130/30
106-46-7	p-Dichlorobenzene	10	11.4	114	11.4	114	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.4	104	10.6	106	2	70-130/30
64-17-5	Ethanol	10	11.3	113	10.9	109	4	70-130/30
100-41-4	Ethylbenzene	10	10.3	103	10.4	104	1	70-130/30
141-78-6	Ethyl Acetate	10	10.3	103	10.4	104	1	70-130/30
622-96-8	4-Ethyltoluene	10	11.0	110	11.3	113	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W180-BS	7W04524.D	1	12/13/23	TS	n/a	n/a	V7W180
V7W180-BSD	7W04525.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.4	114	11.2	112	2	70-130/30
76-14-2	Freon 114	10	11.1	111	11.0	110	1	70-130/30
142-82-5	Heptane	10	9.6	96	9.6	96	0	70-130/30
87-68-3	Hexachlorobutadiene	10	10.3	103	10.5	105	2	70-130/30
110-54-3	Hexane	10	9.8	98	9.7	97	1	70-130/30
591-78-6	2-Hexanone	10	10	100	10.0	100	0	70-130/30
67-63-0	Isopropyl Alcohol	10	10.8	108	10.6	106	2	70-130/30
75-09-2	Methylene chloride	10	10.7	107	10.6	106	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10.7	107	10.5	105	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.0	100	10.0	100	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	10.1	101	0	70-130/30
80-62-6	Methylmethacrylate	10	10.2	102	10.2	102	0	70-130/30
115-07-1	Propylene	10	9.3	93	9.2	92	1	70-130/30
100-42-5	Styrene	10	11.1	111	11.1	111	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.6	106	10.5	105	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.0	110	11.0	110	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.3	103	10.4	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.7	117	11.8	118	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.1	111	11.1	111	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.9	109	10.9	109	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.9	99	10.0	100	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.3	103	10.2	102	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.7	107	10.7	107	0	70-130/30
109-99-9	Tetrahydrofuran	10	10.7	107	10.7	107	0	70-130/30
108-88-3	Toluene	10	10.2	102	10.2	102	0	70-130/30
79-01-6	Trichloroethylene	10	10.3	103	10.3	103	0	70-130/30
75-69-4	Trichlorofluoromethane	10	12.0	120	11.8	118	2	70-130/30
75-01-4	Vinyl chloride	10	11.2	112	11.0	110	2	70-130/30
108-05-4	Vinyl Acetate	10	11.7	117	11.4	114	3	70-130/30
	m,p-Xylene	20	20.5	103	20.5	103	0	70-130/30
95-47-6	o-Xylene	10	10.2	102	10.3	103	1	70-130/30
1330-20-7	Xylenes (total)	30	30.7	102	30.8	103	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W180-BS	7W04524.D	1	12/13/23	TS	n/a	n/a	V7W180
V7W180-BSD	7W04525.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	94%	95%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-BS	8W02813.D	1	11/04/23	TS	n/a	n/a	V8W113
V8W113-BSD	8W02814.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here applies to the following samples: **Method:** TO-15

V8W113-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	11.3	113	11.0	110	3	70-130/30
106-99-0	1,3-Butadiene	10	13.1	131* [a]	12.9	129	2	70-130/30
71-43-2	Benzene	10	9.2	92	9.1	91	1	70-130/30
75-27-4	Bromodichloromethane	10	10.6	106	10.4	104	2	70-130/30
75-25-2	Bromoform	10	10	100	9.8	98	2	70-130/30
74-83-9	Bromomethane	10	11.2	112	11.1	111	1	70-130/30
593-60-2	Bromoethene	10	10.9	109	10.8	108	1	70-130/30
100-44-7	Benzyl Chloride	10	7.3	73	7.2	72	1	70-130/30
75-15-0	Carbon disulfide	10	12.6	126	12.3	123	2	70-130/30
108-90-7	Chlorobenzene	10	8.5	85	8.4	84	1	70-130/30
75-00-3	Chloroethane	10	12.2	122	12.2	122	0	70-130/30
67-66-3	Chloroform	10	9.7	97	9.6	96	1	70-130/30
74-87-3	Chloromethane	10	12.4	124	12.0	120	3	70-130/30
107-05-1	3-Chloropropene	10	12.1	121	11.7	117	3	70-130/30
95-49-8	2-Chlorotoluene	10	8.4	84	8.2	82	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.1	101	9.9	99	2	70-130/30
110-82-7	Cyclohexane	10	9.2	92	9.1	91	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.3	103	10.2	102	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.9	109	10.8	108	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	8.9	89	8.8	88	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.5	105	10.4	104	1	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	9.6	96	1	70-130/30
123-91-1	1,4-Dioxane	10	9.1	91	9.1	91	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.1	111	11.0	110	1	70-130/30
124-48-1	Dibromochloromethane	10	9.9	99	9.8	98	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.2	92	9.1	91	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	8.9	89	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.5	105	10.3	103	2	70-130/30
541-73-1	m-Dichlorobenzene	10	8.2	82	8.2	82	0	70-130/30
95-50-1	o-Dichlorobenzene	10	8.7	87	8.6	86	1	70-130/30
106-46-7	p-Dichlorobenzene	10	8.3	83	8.2	82	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.9	109	10.7	107	2	70-130/30
64-17-5	Ethanol	10	12.3	123	12.2	122	1	70-130/30
100-41-4	Ethylbenzene	10	9.4	94	9.3	93	1	70-130/30
141-78-6	Ethyl Acetate	10	10.6	106	10.5	105	1	70-130/30
622-96-8	4-Ethyltoluene	10	9.6	96	9.5	95	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-BS	8W02813.D	1	11/04/23	TS	n/a	n/a	V8W113
V8W113-BSD	8W02814.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here applies to the following samples: **Method:** TO-15

V8W113-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.3	93	9.1	91	2	70-130/30
76-14-2	Freon 114	10	11.8	118	11.6	116	2	70-130/30
142-82-5	Heptane	10	11.0	110	10.9	109	1	70-130/30
87-68-3	Hexachlorobutadiene	10	7.9	79	7.8	78	1	70-130/30
110-54-3	Hexane	10	10.5	105	10.4	104	1	70-130/30
591-78-6	2-Hexanone	10	10.5	105	10.4	104	1	70-130/30
67-63-0	Isopropyl Alcohol	10	12.1	121	12.0	120	1	70-130/30
75-09-2	Methylene chloride	10	10.9	109	10.9	109	0	70-130/30
78-93-3	Methyl ethyl ketone	10	9.9	99	9.5	95	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.1	101	10.1	101	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.4	94	9.3	93	1	70-130/30
80-62-6	Methylmethacrylate	10	10.2	102	10.1	101	1	70-130/30
115-07-1	Propylene	10	10.5	105	10.4	104	1	70-130/30
100-42-5	Styrene	10	9.7	97	9.6	96	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	9.5	95	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.5	95	9.4	94	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.3	93	9.2	92	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.8	88	8.6	86	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.9	99	9.8	98	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.5	95	9.4	94	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.1	101	10	100	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.2	112	11.1	111	1	70-130/30
127-18-4	Tetrachloroethylene	10	7.7	77	7.7	77	0	70-130/30
109-99-9	Tetrahydrofuran	10	9.8	98	9.6	96	2	70-130/30
108-88-3	Toluene	10	9.1	91	9.0	90	1	70-130/30
79-01-6	Trichloroethylene	10	8.9	89	8.8	88	1	70-130/30
75-69-4	Trichlorofluoromethane	10	10.6	106	10.4	104	2	70-130/30
75-01-4	Vinyl chloride	10	13.0	130	12.8	128	2	70-130/30
108-05-4	Vinyl Acetate	10	9.8	98	9.3	93	5	70-130/30
	m,p-Xylene	20	18.9	95	18.7	94	1	70-130/30
95-47-6	o-Xylene	10	9.4	94	9.3	93	1	70-130/30
1330-20-7	Xylenes (total)	30	28.3	94	28.0	93	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-BS	8W02813.D	1	11/04/23	TS	n/a	n/a	V8W113
V8W113-BSD	8W02814.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here applies to the following samples: **Method:** TO-15

V8W113-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	106%	106%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD78632-1DUP	7W04537.D	1	12/13/23	TS	n/a	n/a	V7W180
JD78632-1	7W04536.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Compound	JD78632-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	190		194		2	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	4.1		4.2		2	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	ND		ND		nc	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	53.6		54.6		2	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	3.7		3.9		5	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD78632-1DUP	7W04537.D	1	12/13/23	TS	n/a	n/a	V7W180
JD78632-1	7W04536.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Compound	JD78632-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	4.7		4.9		4	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	4.6		2.3		67* [a]	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	2.7		2.8		4	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	3.0		3.1		3	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	28.4		29.3		3	25
127-18-4	Tetrachloroethylene	1.3		1.4		7	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.59	J	0.64	J	8	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		0.58	J	200* [a]	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		0.58	J	7	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD78632-1DUP	7W04537.D	1	12/13/23	TS	n/a	n/a	V7W180
JD78632-1	7W04536.D	1	12/13/23	TS	n/a	n/a	V7W180

The QC reported here applies to the following samples: **Method:** TO-15

JD78190-1

CAS No.	Surrogate Recoveries	DUP	JD78632-1	Limits
460-00-4	4-Bromofluorobenzene	96%	94%	65-128%

(a) Outside control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-SCC	8W02829.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here (Summa A2249) applies to the following samples: **Method:** TO-15

Batch CP12495 cleaned 10/31/23: JD78190-1(A2323)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-SCC	8W02829.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here (Summa A2249) applies to the following samples: **Method:** TO-15

Batch CP12495 cleaned 10/31/23: JD78190-1(A2323)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W113-SCC	8W02829.D	1	11/04/23	TS	n/a	n/a	V8W113

The QC reported here (Summa A2249) applies to the following samples: **Method:** TO-15

Batch CP12495 cleaned 10/31/23: JD78190-1(A2323)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	105%	65-128%

Instrument Performance Check (BFB)

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W163-BFB
Lab File ID: 7W04084.D
Instrument ID: GCMS7W
Injection Date: 11/19/23
Injection Time: 16:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12516	24.9		Pass
75	30.0 - 66.0% of mass 95	24856	49.4		Pass
95	Base peak, 100% relative abundance	50325	100.0		Pass
96	5.0 - 9.0% of mass 95	3542	7.04		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	32875	65.3		Pass
175	4.0 - 9.01% of mass 174	2476	4.92	(7.53) [a]	Pass
176	93.0 - 101.0% of mass 174	32467	64.5	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2043	4.06	(6.29) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W163-IC0163	7W04085.D	11/19/23	16:57	00:34	Initial cal 0.04
V7W163-IC0163	7W04086.D	11/19/23	17:31	01:08	Initial cal 0.10
V7W163-IC0163	7W04087.D	11/19/23	18:06	01:43	Initial cal 0.20
V7W163-IC0163	7W04088.D	11/19/23	18:43	02:20	Initial cal 0.50
V7W163-IC0163	7W04090.D	11/19/23	19:50	03:27	Initial cal 5
V7W163-ICC0163	7W04091.D	11/19/23	20:26	04:03	Initial cal 10
V7W163-IC0163	7W04092.D	11/19/23	21:04	04:41	Initial cal 20
V7W163-IC0163	7W04093.D	11/19/23	21:44	05:21	Initial cal 40
V7W163-IC0163	7W04094.D	11/19/23	22:26	06:03	Initial cal 50
V7W163-ICV0163	7W04097.D	11/20/23	00:10	07:47	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V7W180-BFB	**Injection Date:**	12/13/23
Lab File ID:	7W04522.D	**Injection Time:**	08:37
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12608	25.8		Pass
75	30.0 - 66.0% of mass 95	25904	52.9		Pass
95	Base peak, 100% relative abundance	48957	100.0		Pass
96	5.0 - 9.0% of mass 95	3352	6.85		Pass
173	Less than 2.0% of mass 174	129	0.26	(0.37) [a]	Pass
174	50.0 - 120.0% of mass 95	34469	70.4		Pass
175	4.0 - 9.01% of mass 174	2577	5.26	(7.48) [a]	Pass
176	93.0 - 101.0% of mass 174	34813	71.1	(101.0) [a]	Pass
177	5.0 - 9.0% of mass 176	2161	4.41	(6.21) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W180-CC163	7W04523.D	12/13/23	09:11	00:34	Continuing cal 10
V7W180-BS	7W04524.D	12/13/23	09:51	01:14	Blank Spike
V7W180-BSD	7W04525.D	12/13/23	10:26	01:49	Blank Spike Duplicate
V7W180-MB	7W04527.D	12/13/23	11:45	03:08	Method Blank
V7W180-SCC	7W04529.D	12/13/23	13:00	04:23	Summa Cleaning Certification
V7W180-SCC	7W04530.D	12/13/23	13:34	04:57	Summa Cleaning Certification
V7W180-SCC	7W04531.D	12/13/23	14:08	05:31	Summa Cleaning Certification
V7W180-SCC	7W04532.D	12/13/23	14:43	06:06	Summa Cleaning Certification
V7W180-SCC	7W04533.D	12/13/23	15:18	06:41	Summa Cleaning Certification
ZZZZZZ	7W04534.D	12/13/23	16:09	07:32	(unrelated sample)
ZZZZZZ	7W04535.D	12/13/23	16:55	08:18	(unrelated sample)
JD78632-1	7W04536.D	12/13/23	17:30	08:53	(used for QC only; not part of job JD78190)
JD78632-1DUP	7W04537.D	12/13/23	18:06	09:29	Duplicate
ZZZZZZ	7W04540.D	12/13/23	20:01	11:24	(unrelated sample)
ZZZZZZ	7W04541.D	12/13/23	20:45	12:08	(unrelated sample)
ZZZZZZ	7W04542.D	12/13/23	21:29	12:52	(unrelated sample)
ZZZZZZ	7W04543.D	12/13/23	22:13	13:36	(unrelated sample)
ZZZZZZ	7W04544.D	12/13/23	22:57	14:20	(unrelated sample)
JD78190-1	7W04545.D	12/13/23	23:32	14:55	SVE-EFF
V7W180-SCC	7W04547.D	12/14/23	00:46	16:09	Summa Cleaning Certification
V7W180-SCC	7W04548.D	12/14/23	01:26	16:49	Summa Cleaning Certification
V7W180-SCC	7W04549.D	12/14/23	02:05	17:28	Summa Cleaning Certification
V7W180-SCC	7W04550.D	12/14/23	02:46	18:09	Summa Cleaning Certification
V7W180-SCC	7W04551.D	12/14/23	03:26	18:49	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V7W180-BFB	**Injection Date:**	12/13/23
Lab File ID:	7W04522.D	**Injection Time:**	08:37
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W180-SCC	7W04552.D	12/14/23	04:06	19:29	Summa Cleaning Certification
V7W180-SCC	7W04553.D	12/14/23	04:46	20:09	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V8W105-BFB
Lab File ID: 8W02593.D
Instrument ID: GCMS8W
Injection Date: 10/19/23
Injection Time: 21:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	29360	13.2		Pass
75	30.0 - 66.0% of mass 95	106955	48.0		Pass
95	Base peak, 100% relative abundance	222677	100.0		Pass
96	5.0 - 9.0% of mass 95	15072	6.77		Pass
173	Less than 2.0% of mass 174	1279	0.57	(0.64) [a]	Pass
174	50.0 - 120.0% of mass 95	201131	90.3		Pass
175	4.0 - 9.01% of mass 174	14183	6.37	(7.05) [a]	Pass
176	93.0 - 101.0% of mass 174	196331	88.2	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	12815	5.75	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W105-IC0105	8W02594.D	10/19/23	22:23	00:32	Initial cal 0.04
V8W105-IC0105	8W02595.D	10/19/23	22:56	01:05	Initial cal 0.1
V8W105-IC0105	8W02596.D	10/19/23	23:30	01:39	Initial cal 0.2
V8W105-IC0105	8W02597.D	10/20/23	00:05	02:14	Initial cal 0.5
V8W105-IC0105	8W02599.D	10/20/23	01:12	03:21	Initial cal 5
V8W105-ICC0105	8W02600.D	10/20/23	01:47	03:56	Initial cal 10
V8W105-IC0105	8W02601.D	10/20/23	02:23	04:32	Initial cal 20
V8W105-IC0105	8W02602.D	10/20/23	03:03	05:12	Initial cal 40
V8W105-IC0105	8W02603.D	10/20/23	03:44	05:53	Initial cal 50
V8W105-ICV0105	8W02606.D	10/20/23	05:26	07:35	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V8W113-BFB
Lab File ID: 8W02811.D
Instrument ID: GCMS8W
Injection Date: 11/04/23
Injection Time: 09:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	41091	16.5		Pass
75	30.0 - 66.0% of mass 95	131765	52.8		Pass
95	Base peak, 100% relative abundance	249707	100.0		Pass
96	5.0 - 9.0% of mass 95	16817	6.73		Pass
173	Less than 2.0% of mass 174	1462	0.59	(0.73) [a]	Pass
174	50.0 - 120.0% of mass 95	199083	79.7		Pass
175	4.0 - 9.01% of mass 174	14456	5.79	(7.26) [a]	Pass
176	93.0 - 101.0% of mass 174	193301	77.4	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	12136	4.86	(6.28) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W113-CC0105	8W02812.D	11/04/23	10:08	00:35	Continuing cal 10
V8W113-BS	8W02813.D	11/04/23	10:52	01:19	Blank Spike
V8W113-BSD	8W02814.D	11/04/23	11:27	01:54	Blank Spike Duplicate
V8W113-MB	8W02816.D	11/04/23	13:38	04:05	Method Blank
V8W113-SCC	8W02817.D	11/04/23	14:25	04:52	Summa Cleaning Certification
V8W113-SCC	8W02818.D	11/04/23	15:06	05:33	Summa Cleaning Certification
V8W113-SCC	8W02819.D	11/04/23	15:46	06:13	Summa Cleaning Certification
V8W113-SCC	8W02820.D	11/04/23	16:20	06:47	Summa Cleaning Certification
V8W113-SCC	8W02821.D	11/04/23	16:55	07:22	Summa Cleaning Certification
V8W113-SCC	8W02822.D	11/04/23	17:29	07:56	Summa Cleaning Certification
V8W113-SCC	8W02823.D	11/04/23	18:09	08:36	Summa Cleaning Certification
V8W113-SCC	8W02824.D	11/04/23	18:48	09:15	Summa Cleaning Certification
V8W113-SCC	8W02825.D	11/04/23	19:29	09:56	Summa Cleaning Certification
V8W113-SCC	8W02826.D	11/04/23	20:08	10:35	Summa Cleaning Certification
V8W113-SCC	8W02827.D	11/04/23	20:49	11:16	Summa Cleaning Certification
V8W113-SCC	8W02829.D	11/04/23	21:58	12:25	Summa Cleaning Certification
V8W113-SCC	8W02830.D	11/04/23	22:32	12:59	Summa Cleaning Certification
V8W113-SCC	8W02834.D	11/05/23	00:56	15:23	Summa Cleaning Certification
V8W113-SCC	8W02836.D	11/05/23	01:17	15:44	Summa Cleaning Certification
V8W113-SCC	8W02837.D	11/05/23	01:56	16:23	Summa Cleaning Certification
V8W113-SCC	8W02838.D	11/05/23	02:36	17:03	Summa Cleaning Certification
V8W113-SCC	8W02839.D	11/05/23	03:16	17:43	Summa Cleaning Certification
V8W113-SCC	8W02840.D	11/05/23	03:55	18:22	Summa Cleaning Certification
V8W113-SCC	8W02841.D	11/05/23	04:35	19:02	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD78190
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD78190-1	7W04545.D	94
JD78632-1DUP	7W04537.D	96
V7W180-BS	7W04524.D	94
V7W180-BSD	7W04525.D	95
V7W180-MB	7W04527.D	93
V8W113-SCC	8W02829.D	105
V8W113-BS	8W02813.D	106
V8W113-BSD	8W02814.D	106
V8W113-MB	8W02816.D	104

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

e-Hardcopy 2.0
Automated Report



Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60707644

SGS Job Number: JD79524

Sampling Date: 12/21/23

Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ros

Total number of pages in report: **40**

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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how we can serve you better at:
EHS.US.CustomerCare@sgs.com

January 18, 2024

Mr. Ian Ros
AECOM, INC.
10 Patewood Dr. Bldg VI, Suite 500
Greenville, SC 29615

RE: SGS – Dayton, Job # JD79524 - reissues

Dear Mr. Ros,

The final report for SGS job number JD79524 has been edited to reflect corrections to the results. These edits have been incorporated into the revised report which is attached.

Specifically, the recovery of Tetrachloroethene was failing high in associated blank spike and JD79524-1 has been re-run and updated sample's result re-submitted. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.

Sections: 1 2 3 4 5 6

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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD79524

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60707644

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD79524-1	12/21/23	12:08	IJR	12/22/23	AIR	Soil Vapor Comp.	SVE-EFF

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Raytheon Technologies Corporation **Job No:** JD79524

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date** 1/18/2024 1:11:16 PM

On 12/22/2023, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. An SGS Job Number of JD79524 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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 TO-15

Matrix: AIR **Batch ID:** V3W3312

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD79552-1DUP were used as the QC samples indicated.

Matrix: AIR **Batch ID:** V8W136

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD79766-1DUP were used as the QC samples indicated.
- The blank spike (BS) recovery(s) of 1,2,4-Trichlorobenzene are outside control limits.
- JD79524-1 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- V8W136-BS for 1,2,4-Trichlorobenzene: High percent recovery and no associated positive reported in the QC batch.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's 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 is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD79524
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 12/21/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD79524-1	**SVE-EFF**					
Acetone (2-Propanone)		18.6	0.80	0.58	ppbv	TO-15
Benzene		7.2	0.80	0.096	ppbv	TO-15
cis-1,2-Dichloroethylene		0.46 J	0.80	0.12	ppbv	TO-15
Ethanol		5.5	2.0	1.6	ppbv	TO-15
Ethyl Acetate		7.3	0.80	0.42	ppbv	TO-15
Isopropyl Alcohol		292	1.6	1.1	ppbv	TO-15
Methylene chloride		0.51 J	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone		0.72 J	0.80	0.44	ppbv	TO-15
1,1,1-Trichloroethane		0.63 J	0.80	0.15	ppbv	TO-15
Tetrachloroethylene		222	0.32	0.11	ppbv	TO-15
Toluene		0.44 J	0.80	0.23	ppbv	TO-15
Trichloroethylene		1.3	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		0.91	0.80	0.62	ppbv	TO-15
Acetone (2-Propanone)		44.2	1.9	1.4	ug/m3	TO-15
Benzene		23	2.6	0.31	ug/m3	TO-15
cis-1,2-Dichloroethylene		1.8 J	3.2	0.48	ug/m3	TO-15
Ethanol		10	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		26	2.9	1.5	ug/m3	TO-15
Isopropyl Alcohol		718	3.9	2.7	ug/m3	TO-15
Methylene chloride		1.8 J	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone		2.1 J	2.4	1.3	ug/m3	TO-15
1,1,1-Trichloroethane		3.4 J	4.4	0.82	ug/m3	TO-15
Tetrachloroethylene		1510	2.2	0.75	ug/m3	TO-15
Toluene		1.7 J	3.0	0.87	ug/m3	TO-15
Trichloroethylene		7.0	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		5.1	4.5	3.5	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD79524-1 **Date Sampled:** 12/21/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A1904 **Date Received:** 12/22/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8W03432.D	1	01/03/24 20:31	TCH	n/a	n/a	V8W136
Run #2	3W84086.D	1	01/04/24 15:15	TCH	n/a	n/a	V3W3312

	Initial Volume
Run #1	100 ml
Run #2	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	18.6	0.80	0.58	ppbv		44.2	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	7.2	0.80	0.096	ppbv		23	2.6	0.31	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.46	0.80	0.12	ppbv	J	1.8	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD79524-1 **Date Sampled:** 12/21/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A1904 **Date Received:** 12/22/23
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	5.5	2.0	1.6	ppbv		10	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	7.3	0.80	0.42	ppbv		26	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	292 [a]	1.6	1.1	ppbv		718 [a]	3.9	2.7	ug/m3
75-09-2	84.94	Methylene chloride	0.51	0.80	0.22	ppbv	J	1.8	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.72	0.80	0.44	ppbv	J	2.1	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.63	0.80	0.15	ppbv	J	3.4	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [b]	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	222 [a]	0.32	0.11	ppbv		1510 [a]	2.2	0.75	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.44	0.80	0.23	ppbv	J	1.7	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.3	0.16	0.076	ppbv		7.0	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.91	0.80	0.62	ppbv		5.1	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%	99%	65-128%

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:	SVE-EFF		
Lab Sample ID:	JD79524-1	**Date Sampled:**	12/21/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1904	**Date Received:**	12/22/23
Method:	TO-15	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

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
- Summa Canister and Flow Controller Log

SGS

Air

AIR CHAIN OF CUSTODY

7003-7834-3760

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #: BW-12423-156
SGS Quote #: | SGS Job #: JD79524

Client / Reporting Information	Project Information	Weather Parameters	Requested Analysis
Company Name: AECOM	Project Name: Delavan SVE	Temperature (Fahrenheit) Start: 52 Maximum: 52 Stop: 52 Minimum: 52	TO-15 (limited list)
Address: 5438 Wade Park Blvd.	Street: 4334 Main Hwy		
City: Raleigh State: NC Zip: 27607	City: Bamberg State: SC	Atmospheric Pressure (inches of Hg) Start: 30.45 Maximum: 30.45 Stop: 30.45 Minimum: 30.45	
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com	Project #: 60707644		
Phone #: Fax #:	Client Purchase Order #:	Other weather comment:	

Sampler(s) Name(s): Ian Ros

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient (A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	TO-15 (limited list)
1	SVE-EFF	SV	A1904	1L	FC1098	12/21/23	1207	-27	52	IJR	12/21/23	1208	-3	52	IJR	✓

Turnaround Time (Business days):
- [ ] Standard - 15 Days
- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Other

Approved By: _____ Date: _____

Data Deliverable Information:
All NJDEP TO-15 is Mandatory Full T1
- Comm A
- Comm B
- Reduced T2
- Full T1
- Other:
- DKQP reporting

Comments / Remarks: ARCJB

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished By / Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	[signature]	12/21/23 1600	[signature]	2 [signature]	12/21/23	2 FedEx
3	[signature]	12/22/23 10:00	[signature]	4	Date Time:	4 Received By:
5	Relinquished By:	Date Time:	Received By: 5	Custody Seal #		

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

5.1 5

JD79524: Chain of Custody
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SGS Sample Receipt Summary

Job Number: JD79524 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 12/22/2023 10:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7003 7834 3760

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD79524: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 12/22/23

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1904	1.4	30	12/10/23	ML	CP12527	3W83360.D	JD79524-1	12/26/23	ML	4			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1098	12/10/23	ML	187	.0833	12/26/23	ML	188	0.5	Flow Controller

SGS Bottle Order(s):
BW-12423-156

Prep Date	Room Temp(F)	Bar Pres "Hg
12/10/23	70	29.92

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W136-MB	8W03422.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.024	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W136-MB	8W03422.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	65-128%

Method Blank Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3312-MB	3W84083.D	1	01/04/24	TCH	n/a	n/a	V3W3312

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	90%	65-128%

Method Blank Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-MB	3W83345.D	1	11/28/23	WC	n/a	n/a	V3W3281

The QC reported here applies to the following samples: **Method:** TO-15

V3W3281-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-MB	3W83345.D	1	11/28/23	WC	n/a	n/a	V3W3281

The QC reported here applies to the following samples: **Method:** TO-15

V3W3281-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-MB	3W83345.D	1	11/28/23	WC	n/a	n/a	V3W3281

The QC reported here applies to the following samples: **Method:** TO-15

V3W3281-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	4.02	4.4	ppbv	J
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W136-BS	8W03419.D	1	01/03/24	TCH	n/a	n/a	V8W136
V8W136-BSD	8W03420.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.7	97	9.8	98	1	70-130/30
106-99-0	1,3-Butadiene	10	9.7	97	9.7	97	0	70-130/30
71-43-2	Benzene	10	9.5	95	9.6	96	1	70-130/30
75-27-4	Bromodichloromethane	10	10.5	105	10.7	107	2	70-130/30
75-25-2	Bromoform	10	12.2	122	12.2	122	0	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.6	96	1	70-130/30
593-60-2	Bromoethene	10	10.3	103	10.4	104	1	70-130/30
100-44-7	Benzyl Chloride	10	11.2	112	11.4	114	2	70-130/30
75-15-0	Carbon disulfide	10	10.6	106	10.8	108	2	70-130/30
108-90-7	Chlorobenzene	10	10.5	105	10.6	106	1	70-130/30
75-00-3	Chloroethane	10	9.6	96	9.7	97	1	70-130/30
67-66-3	Chloroform	10	9.3	93	9.4	94	1	70-130/30
74-87-3	Chloromethane	10	9.8	98	9.9	99	1	70-130/30
107-05-1	3-Chloropropene	10	9.4	94	9.6	96	2	70-130/30
95-49-8	2-Chlorotoluene	10	11.5	115	11.7	117	2	70-130/30
56-23-5	Carbon tetrachloride	10	11.2	112	11.2	112	0	70-130/30
110-82-7	Cyclohexane	10	10.4	104	10.7	107	3	70-130/30
75-34-3	1,1-Dichloroethane	10	9.8	98	9.7	97	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.8	98	9.8	98	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.1	111	11.5	115	4	70-130/30
107-06-2	1,2-Dichloroethane	10	9.1	91	9.3	93	2	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	9.9	99	2	70-130/30
123-91-1	1,4-Dioxane	10	9.7	97	10.1	101	4	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.6	96	9.6	96	0	70-130/30
124-48-1	Dibromochloromethane	10	12.0	120	12.2	122	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.7	107	10.5	105	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.1	101	10.4	104	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.9	109	11.3	113	4	70-130/30
541-73-1	m-Dichlorobenzene	10	11.8	118	12.0	120	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.7	117	11.9	119	2	70-130/30
106-46-7	p-Dichlorobenzene	10	11.9	119	12.1	121	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.5	105	11.0	110	5	70-130/30
64-17-5	Ethanol	10	9.1	91	9.0	90	1	70-130/30
100-41-4	Ethylbenzene	10	10.6	106	10.7	107	1	70-130/30
141-78-6	Ethyl Acetate	10	10.5	105	10.9	109	4	70-130/30
622-96-8	4-Ethyltoluene	10	11.4	114	11.5	115	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W136-BS	8W03419.D	1	01/03/24	TCH	n/a	n/a	V8W136
V8W136-BSD	8W03420.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.1	101	10.3	103	2	70-130/30
76-14-2	Freon 114	10	9.7	97	9.7	97	0	70-130/30
142-82-5	Heptane	10	10.3	103	10.6	106	3	70-130/30
87-68-3	Hexachlorobutadiene	10	12.4	124	12.5	125	1	70-130/30
110-54-3	Hexane	10	9.9	99	10.1	101	2	70-130/30
591-78-6	2-Hexanone	10	10.4	104	10.7	107	3	70-130/30
75-09-2	Methylene chloride	10	9.1	91	9.3	93	2	70-130/30
78-93-3	Methyl ethyl ketone	10	9.0	90	9.3	93	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.8	98	10.1	101	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.2	92	9.5	95	3	70-130/30
80-62-6	Methylmethacrylate	10	9.5	95	9.9	99	4	70-130/30
115-07-1	Propylene	10	9.2	92	9.3	93	1	70-130/30
100-42-5	Styrene	10	11.4	114	11.5	115	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.2	102	10.4	104	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.9	99	10.1	101	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.8	98	10.1	101	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	13.4	134* [a]	13.5	135* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.0	110	11.1	111	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.3	113	11.4	114	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.1	101	10.4	104	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.2	82	8.5	85	4	70-130/30
109-99-9	Tetrahydrofuran	10	8.8	88	9.1	91	3	70-130/30
108-88-3	Toluene	10	10.5	105	10.8	108	3	70-130/30
79-01-6	Trichloroethylene	10	10.3	103	10.7	107	4	70-130/30
75-69-4	Trichlorofluoromethane	10	9.6	96	9.6	96	0	70-130/30
75-01-4	Vinyl chloride	10	9.5	95	9.6	96	1	70-130/30
108-05-4	Vinyl Acetate	10	10.4	104	10.9	109	5	70-130/30
	m,p-Xylene	20	21.1	106	21.4	107	1	70-130/30
95-47-6	o-Xylene	10	10.5	105	10.7	107	2	70-130/30
1330-20-7	Xylenes (total)	30	31.6	105	32.1	107	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	91%	91%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W136-BS	8W03419.D	1	01/03/24	TCH	n/a	n/a	V8W136
V8W136-BSD	8W03420.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3312-BS	3W84080.D	1	01/04/24	TCH	n/a	n/a	V3W3312
V3W3312-BSD	3W84081.D	1	01/04/24	TCH	n/a	n/a	V3W3312

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-63-0	Isopropyl Alcohol	10	8.4	84	8.5	85	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10.4	104	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-BS	3W83342.D	1	11/28/23	WC	n/a	n/a	V3W3281
V3W3281-BSD	3W83343.D	1	11/28/23	WC	n/a	n/a	V3W3281

The QC reported here applies to the following samples: **Method:** TO-15

V3W3281-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.6	96	9.6	96	0	70-130/30
106-99-0	1,3-Butadiene	10	10.6	106	10.5	105	1	70-130/30
71-43-2	Benzene	10	10.1	101	10.1	101	0	70-130/30
75-27-4	Bromodichloromethane	10	10.8	108	10.7	107	1	70-130/30
75-25-2	Bromoform	10	12.6	126	12.6	126	0	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.8	98	0	70-130/30
593-60-2	Bromoethene	10	10.1	101	10	100	1	70-130/30
100-44-7	Benzyl Chloride	10	10.2	102	10.1	101	1	70-130/30
75-15-0	Carbon disulfide	10	10.9	109	11.0	110	1	70-130/30
108-90-7	Chlorobenzene	10	9.6	96	9.7	97	1	70-130/30
75-00-3	Chloroethane	10	10.8	108	10.8	108	0	70-130/30
67-66-3	Chloroform	10	10.5	105	10.5	105	0	70-130/30
74-87-3	Chloromethane	10	11.0	110	11.0	110	0	70-130/30
107-05-1	3-Chloropropene	10	11.2	112	11.2	112	0	70-130/30
95-49-8	2-Chlorotoluene	10	9.4	94	9.4	94	0	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.7	97	0	70-130/30
110-82-7	Cyclohexane	10	10.2	102	10.1	101	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.9	109	10.9	109	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.5	105	10.4	104	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.9	99	10	100	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.5	105	10.5	105	0	70-130/30
78-87-5	1,2-Dichloropropane	10	10.9	109	10.9	109	0	70-130/30
123-91-1	1,4-Dioxane	10	10.3	103	10.2	102	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.2	102	10.3	103	1	70-130/30
124-48-1	Dibromochloromethane	10	9.9	99	9.9	99	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.7	107	10.6	106	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.6	106	10.6	106	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.9	109	10.8	108	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10.2	102	10.2	102	0	70-130/30
95-50-1	o-Dichlorobenzene	10	9.9	99	9.9	99	0	70-130/30
106-46-7	p-Dichlorobenzene	10	10.1	101	10.0	100	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.7	107	10.7	107	0	70-130/30
64-17-5	Ethanol	10	8.8	88	8.7	87	1	70-130/30
100-41-4	Ethylbenzene	10	10.0	100	10.1	101	1	70-130/30
141-78-6	Ethyl Acetate	10	11.5	115	11.6	116	1	70-130/30
622-96-8	4-Ethyltoluene	10	10.0	100	10.1	101	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-BS	3W83342.D	1	11/28/23	WC	n/a	n/a	V3W3281
V3W3281-BSD	3W83343.D	1	11/28/23	WC	n/a	n/a	V3W3281

The QC reported here applies to the following samples: **Method:** TO-15

V3W3281-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.8	108	10.8	108	0	70-130/30
76-14-2	Freon 114	10	10.9	109	10.9	109	0	70-130/30
142-82-5	Heptane	10	10.2	102	10.2	102	0	70-130/30
87-68-3	Hexachlorobutadiene	10	10.7	107	10.6	106	1	70-130/30
110-54-3	Hexane	10	10.8	108	10.7	107	1	70-130/30
591-78-6	2-Hexanone	10	10.8	108	10.8	108	0	70-130/30
67-63-0	Isopropyl Alcohol	10	10.2	102	10.1	101	1	70-130/30
75-09-2	Methylene chloride	10	10.6	106	10.5	105	1	70-130/30
78-93-3	Methyl ethyl ketone	10	11.5	115	11.4	114	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.1	111	11.1	111	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.5	105	10.5	105	0	70-130/30
80-62-6	Methylmethacrylate	10	11.2	112	11.4	114	2	70-130/30
115-07-1	Propylene	10	9.9	99	9.9	99	0	70-130/30
100-42-5	Styrene	10	10.1	101	10.1	101	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10	100	10.0	100	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.3	103	10.4	104	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.9	109	10.9	109	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.3	103	10.1	101	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.9	99	9.9	99	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.8	98	9.8	98	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	11.0	110	11.0	110	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.6	106	10.7	107	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.6	106	10.6	106	0	70-130/30
109-99-9	Tetrahydrofuran	10	11.4	114	11.5	115	1	70-130/30
108-88-3	Toluene	10	10.5	105	10.4	104	1	70-130/30
79-01-6	Trichloroethylene	10	10.6	106	10.6	106	0	70-130/30
75-69-4	Trichlorofluoromethane	10	10.3	103	10.3	103	0	70-130/30
75-01-4	Vinyl chloride	10	11.1	111	11.1	111	0	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	10.4	104	2	70-130/30
	m,p-Xylene	20	19.6	98	19.7	99	1	70-130/30
95-47-6	o-Xylene	10	9.9	99	9.9	99	0	70-130/30
1330-20-7	Xylenes (total)	30	29.5	98	29.6	99	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-BS	3W83342.D	1	11/28/23	WC	n/a	n/a	V3W3281
V3W3281-BSD	3W83343.D	1	11/28/23	WC	n/a	n/a	V3W3281

The QC reported here applies to the following samples: **Method:** TO-15

V3W3281-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	98%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD79766-1DUP	8W03426.D	1	01/03/24	TCH	n/a	n/a	V8W136
JD79766-1	8W03424.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	JD79766-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	4.5		4.4		2	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.60	J	0.60	J	0	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	2.9		2.7		7	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	0.78	J	0.73	J	7	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD79766-1DUP	8W03426.D	1	01/03/24	TCH	n/a	n/a	V8W136
JD79766-1	8W03424.D	1	01/03/24	TCH	n/a	n/a	V8W136

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	JD79766-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

CAS No.	Surrogate Recoveries	DUP	JD79766-1	Limits
460-00-4	4-Bromofluorobenzene	91%	91%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD79552-1DUP	3W84090.D	1	01/04/24	TCH	n/a	n/a	V3W3312
JD79552-1	3W84089.D	1	01/04/24	TCH	n/a	n/a	V3W3312

The QC reported here applies to the following samples: **Method:** TO-15

JD79524-1

CAS No.	Compound	JD79552-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-63-0	Isopropyl Alcohol	6.2		5.6		10	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25

CAS No.	Surrogate Recoveries	DUP	JD79552-1	Limits
460-00-4	4-Bromofluorobenzene	94%	98%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-SCC	3W83359.D	1	11/29/23	WC	n/a	n/a	V3W3281

The QC reported here (Summa A2293) applies to the following samples: **Method:** TO-15

Batch CP12527 cleaned 11/20/23: JD79524-1(A1904)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.15	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-SCC	3W83359.D	1	11/29/23	WC	n/a	n/a	V3W3281

The QC reported here (Summa A2293) applies to the following samples: **Method:** TO-15

Batch CP12527 cleaned 11/20/23: JD79524-1(A1904)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3281-SCC	3W83359.D	1	11/29/23	WC	n/a	n/a	V3W3281

The QC reported here (Summa A2293) applies to the following samples: **Method:** TO-15

Batch CP12527 cleaned 11/20/23: JD79524-1(A1904)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Instrument Performance Check (BFB)

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3236-BFB
Lab File ID: 3W82140.D
Instrument ID: GCMS3W
Injection Date: 09/29/23
Injection Time: 22:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	39109	23.3		Pass
75	30.0 - 66.0% of mass 95	78699	46.9		Pass
95	Base peak, 100% relative abundance	167744	100.0		Pass
96	5.0 - 9.0% of mass 95	10910	6.50		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	138421	82.5		Pass
175	4.0 - 9.01% of mass 174	10480	6.25	(7.57) [a]	Pass
176	93.0 - 101.0% of mass 174	136784	81.5	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	8860	5.28	(6.48) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3236-IC3236	3W82141.D	09/29/23	23:04	00:39	Initial cal 0.04
V3W3236-IC3236	3W82142.D	09/29/23	23:44	01:19	Initial cal 0.1
V3W3236-IC3236	3W82143.D	09/30/23	00:25	02:00	Initial cal 0.2
V3W3236-IC3236	3W82144.D	09/30/23	01:07	02:42	Initial cal 0.5
V3W3236-IC3236	3W82146.D	09/30/23	02:27	04:02	Initial cal 5
V3W3236-ICC3236	3W82147.D	09/30/23	03:08	04:43	Initial cal 10
V3W3236-IC3236	3W82148.D	09/30/23	03:50	05:25	Initial cal 20
V3W3236-IC3236	3W82149.D	09/30/23	04:36	06:11	Initial cal 40
V3W3236-IC3236	3W82150.D	09/30/23	05:24	06:59	Initial cal 50
V3W3236-ICV3236	3W82153.D	09/30/23	07:31	09:06	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3281-BFB
Lab File ID: 3W83340.D
Instrument ID: GCMS3W
Injection Date: 11/28/23
Injection Time: 09:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	32269	22.6		Pass
75	30.0 - 66.0% of mass 95	68779	48.2		Pass
95	Base peak, 100% relative abundance	142787	100.0		Pass
96	5.0 - 9.0% of mass 95	9645	6.75		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	137395	96.2		Pass
175	4.0 - 9.01% of mass 174	10194	7.14	(7.42) [a]	Pass
176	93.0 - 101.0% of mass 174	133605	93.6	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	9109	6.38	(6.82) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3281-CC3236	3W83341.D	11/28/23	09:55	00:41	Continuing cal 10
V3W3281-BS	3W83342.D	11/28/23	10:47	01:33	Blank Spike
V3W3281-BSD	3W83343.D	11/28/23	11:28	02:14	Blank Spike Duplicate
V3W3281-MB	3W83345.D	11/28/23	13:02	03:48	Method Blank
JD77595-1	3W83346.D	11/28/23	13:59	04:45	(used for QC only; not part of job JD79524)
JD77595-1DUP	3W83347.D	11/28/23	14:40	05:26	Duplicate
ZZZZZZ	3W83348.D	11/28/23	16:51	07:37	(unrelated sample)
ZZZZZZ	3W83349.D	11/28/23	17:33	08:19	(unrelated sample)
ZZZZZZ	3W83350.D	11/28/23	18:15	09:01	(unrelated sample)
ZZZZZZ	3W83351.D	11/28/23	19:02	09:48	(unrelated sample)
ZZZZZZ	3W83352.D	11/28/23	19:48	10:34	(unrelated sample)
ZZZZZZ	3W83353.D	11/28/23	20:35	11:21	(unrelated sample)
ZZZZZZ	3W83354.D	11/28/23	21:21	12:07	(unrelated sample)
ZZZZZZ	3W83355.D	11/28/23	22:07	12:53	(unrelated sample)
ZZZZZZ	3W83356.D	11/28/23	22:48	13:34	(unrelated sample)
V3W3281-SCC	3W83359.D	11/29/23	00:53	15:39	Summa Cleaning Certification
V3W3281-SCC	3W83360.D	11/29/23	01:35	16:21	Summa Cleaning Certification
V3W3281-SCC	3W83361.D	11/29/23	02:16	17:02	Summa Cleaning Certification
V3W3281-SCC	3W83362.D	11/29/23	02:59	17:45	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3312-BFB	**Injection Date:**	01/04/24
Lab File ID:	3W84077.D	**Injection Time:**	08:19
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	44656	21.8		Pass
75	30.0 - 66.0% of mass 95	96968	47.4		Pass
95	Base peak, 100% relative abundance	204736	100.0		Pass
96	5.0 - 9.0% of mass 95	13872	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	178667	87.3		Pass
175	4.0 - 9.01% of mass 174	13384	6.54	(7.49) [a]	Pass
176	93.0 - 101.0% of mass 174	172565	84.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	11518	5.63	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3312-CC3236	3W84079.D	01/04/24	09:47	01:28	Continuing cal 10
V3W3312-BS	3W84080.D	01/04/24	10:28	02:09	Blank Spike
V3W3312-BSD	3W84081.D	01/04/24	11:09	02:50	Blank Spike Duplicate
V3W3312-MB	3W84083.D	01/04/24	12:42	04:23	Method Blank
ZZZZZZ	3W84084.D	01/04/24	13:36	05:17	(unrelated sample)
ZZZZZZ	3W84085.D	01/04/24	14:34	06:15	(unrelated sample)
JD79524-1	3W84086.D	01/04/24	15:15	06:56	SVE-EFF
ZZZZZZ	3W84087.D	01/04/24	15:56	07:37	(unrelated sample)
ZZZZZZ	3W84088.D	01/04/24	16:37	08:18	(unrelated sample)
JD79552-1	3W84089.D	01/04/24	17:18	08:59	(used for QC only; not part of job JD79524)
JD79552-1DUP	3W84090.D	01/04/24	17:59	09:40	Duplicate
ZZZZZZ	3W84091.D	01/04/24	18:40	10:21	(unrelated sample)
ZZZZZZ	3W84092.D	01/04/24	19:21	11:02	(unrelated sample)
ZZZZZZ	3W84093.D	01/04/24	20:02	11:43	(unrelated sample)
ZZZZZZ	3W84094.D	01/04/24	20:43	12:24	(unrelated sample)
ZZZZZZ	3W84095.D	01/04/24	21:25	13:06	(unrelated sample)
ZZZZZZ	3W84096.D	01/04/24	22:06	13:47	(unrelated sample)
ZZZZZZ	3W84097.D	01/04/24	22:47	14:28	(unrelated sample)
ZZZZZZ	3W84098.D	01/04/24	23:29	15:10	(unrelated sample)
ZZZZZZ	3W84099.D	01/05/24	00:11	15:52	(unrelated sample)
ZZZZZZ	3W84100.D	01/05/24	00:53	16:34	(unrelated sample)
ZZZZZZ	3W84101.D	01/05/24	01:35	17:16	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W124-BFB	**Injection Date:**	12/19/23
Lab File ID:	8W03113.D	**Injection Time:**	20:37
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	33235	18.0		Pass
75	30.0 - 66.0% of mass 95	91059	49.3		Pass
95	Base peak, 100% relative abundance	184597	100.0		Pass
96	5.0 - 9.0% of mass 95	12182	6.60		Pass
173	Less than 2.0% of mass 174	921	0.50	(0.65) [a]	Pass
174	50.0 - 120.0% of mass 95	142784	77.3		Pass
175	4.0 - 9.01% of mass 174	10030	5.43	(7.02) [a]	Pass
176	93.0 - 101.0% of mass 174	137472	74.5	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	8885	4.81	(6.46) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W124-IC0124	8W03114.D	12/19/23	21:11	00:34	Initial cal 0.04
V8W124-IC0124	8W03115.D	12/19/23	21:45	01:08	Initial cal 0.10
V8W124-IC0124	8W03116.D	12/19/23	22:20	01:43	Initial cal 0.20
V8W124-IC0124	8W03117.D	12/19/23	22:56	02:19	Initial cal 0.50
V8W124-IC0124	8W03119.D	12/20/23	00:03	03:26	Initial cal 5
V8W124-ICC0124	8W03120.D	12/20/23	00:38	04:01	Initial cal 10
V8W124-IC0124	8W03121.D	12/20/23	01:14	04:37	Initial cal 20
V8W124-IC0124	8W03122.D	12/20/23	01:55	05:18	Initial cal 40
V8W124-IC0124	8W03123.D	12/20/23	02:37	06:00	Initial cal 50
V8W124-ICV0124	8W03126.D	12/20/23	04:21	07:44	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W136-BFB	**Injection Date:**	01/03/24
Lab File ID:	8W03417.D	**Injection Time:**	08:54
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	38296	17.6		Pass
75	30.0 - 66.0% of mass 95	100464	46.3		Pass
95	Base peak, 100% relative abundance	217195	100.0		Pass
96	5.0 - 9.0% of mass 95	14691	6.76		Pass
173	Less than 2.0% of mass 174	1181	0.54	(0.58) [a]	Pass
174	50.0 - 120.0% of mass 95	203691	93.8		Pass
175	4.0 - 9.01% of mass 174	14623	6.73	(7.18) [a]	Pass
176	93.0 - 101.0% of mass 174	197653	91.0	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	13162	6.06	(6.66) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W136-CC0124	8W03418.D	01/03/24	09:29	00:35	Continuing cal 10
V8W136-BS	8W03419.D	01/03/24	11:07	02:13	Blank Spike
V8W136-BSD	8W03420.D	01/03/24	11:43	02:49	Blank Spike Duplicate
V8W136-MB	8W03422.D	01/03/24	13:19	04:25	Method Blank
ZZZZZZ	8W03423.D	01/03/24	14:54	06:00	(unrelated sample)
JD79766-1	8W03424.D	01/03/24	15:30	06:36	(used for QC only; not part of job JD79524)
JD79766-1DUP	8W03426.D	01/03/24	16:50	07:56	Duplicate
ZZZZZZ	8W03427.D	01/03/24	17:25	08:31	(unrelated sample)
ZZZZZZ	8W03428.D	01/03/24	18:06	09:12	(unrelated sample)
ZZZZZZ	8W03429.D	01/03/24	18:47	09:53	(unrelated sample)
ZZZZZZ	8W03430.D	01/03/24	19:22	10:28	(unrelated sample)
JD79524-1	8W03432.D	01/03/24	20:31	11:37	SVE-EFF
ZZZZZZ	8W03433.D	01/03/24	21:07	12:13	(unrelated sample)
ZZZZZZ	8W03434.D	01/03/24	21:44	12:50	(unrelated sample)
ZZZZZZ	8W03435.D	01/03/24	22:19	13:25	(unrelated sample)
ZZZZZZ	8W03436.D	01/03/24	22:57	14:03	(unrelated sample)
ZZZZZZ	8W03437.D	01/03/24	23:33	14:39	(unrelated sample)
ZZZZZZ	8W03438.D	01/04/24	00:08	15:14	(unrelated sample)
ZZZZZZ	8W03439.D	01/04/24	00:45	15:51	(unrelated sample)
ZZZZZZ	8W03440.D	01/04/24	01:23	16:29	(unrelated sample)
ZZZZZZ	8W03441.D	01/04/24	01:59	17:05	(unrelated sample)
ZZZZZZ	8W03443.D	01/04/24	03:10	18:16	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD79524
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD79524-1	3W84086.D	99
JD79524-1	8W03432.D	90
JD79552-1DUP	3W84090.D	94
JD79766-1DUP	8W03426.D	91
V3W3281-SCC	3W83359.D	94
V3W3312-BS	3W84080.D	101
V3W3312-BSD	3W84081.D	101
V3W3312-MB	3W84083.D	90
V8W136-BS	8W03419.D	91
V8W136-BSD	8W03420.D	91
V8W136-MB	8W03422.D	89
V3W3281-BS	3W83342.D	97
V3W3281-BSD	3W83343.D	98
V3W3281-MB	3W83345.D	89

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

PO#1610011

SGS Job Number: JD81528

Sampling Date: 01/29/24



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
doria.cullom@aecom.com; ian.ros@aecom.com;
Robert.Davis@aecom.com; conan.fitzgerald@aecom.com
ATTN: Ian Ros

Total number of pages in report: 37

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 unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Raytheon Technologies Corporation

Job No: JD81528

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: PO#1610011

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD81528-1	01/29/24	11:05	TP	01/31/24	AIR	Soil Vapor Comp.	SVE-EFF

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Raytheon Technologies Corporation	**Job No:**	JD81528
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	2/14/2024 9:52:21 AM

On 01/31/2024, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD81528 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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 TO-15

Matrix: AIR **Batch ID:** V3W3341

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD81528-1DUP were used as the QC samples indicated.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's 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 is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD81528
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 01/29/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD81528-1	**SVE-EFF**					
Acetone (2-Propanone)		11.0	0.80	0.58	ppbv	TO-15
Benzene		25.7	0.80	0.096	ppbv	TO-15
Dichlorodifluoromethane		0.45 J	0.80	0.42	ppbv	TO-15
Ethanol		2.4	2.0	1.6	ppbv	TO-15
Ethyl Acetate		4.5	0.80	0.42	ppbv	TO-15
Isopropyl Alcohol		34.4	0.80	0.56	ppbv	TO-15
Methyl ethyl ketone		1.6	0.80	0.44	ppbv	TO-15
1,1,1-Trichloroethane		0.40 J	0.80	0.15	ppbv	TO-15
Tetrachloroethylene		105	0.16	0.056	ppbv	TO-15
Trichloroethylene		1.1	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		1.1	0.80	0.62	ppbv	TO-15
Acetone (2-Propanone)		26.1	1.9	1.4	ug/m3	TO-15
Benzene		82.1	2.6	0.31	ug/m3	TO-15
Dichlorodifluoromethane		2.2 J	4.0	2.1	ug/m3	TO-15
Ethanol		4.5	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		16	2.9	1.5	ug/m3	TO-15
Isopropyl Alcohol		84.6	2.0	1.4	ug/m3	TO-15
Methyl ethyl ketone		4.7	2.4	1.3	ug/m3	TO-15
1,1,1-Trichloroethane		2.2 J	4.4	0.82	ug/m3	TO-15
Tetrachloroethylene		712	1.1	0.38	ug/m3	TO-15
Trichloroethylene		5.9	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		6.2	4.5	3.5	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD81528-1 **Date Sampled:** 01/29/24
Matrix: AIR - Soil Vapor Comp. Summa ID: A2418 **Date Received:** 01/31/24
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W84813.D	1	02/12/24 14:35	TCH	n/a	n/a	V3W3341
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	11.0	0.80	0.58	ppbv		26.1	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	25.7	0.80	0.096	ppbv		82.1	2.6	0.31	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.80	0.42	ppbv	J	2.2	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.12	ppbv		ND	3.2	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.28	ppbv		ND	4.8	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.32	ppbv		ND	4.8	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD81528-1 **Date Sampled:** 01/29/24
Matrix: AIR - Soil Vapor Comp. Summa ID: A2418 **Date Received:** 01/31/24
Method: TO-15 **Percent Solids:** n/a
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.4	2.0	1.6	ppbv		4.5	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	4.5	0.80	0.42	ppbv		16	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	34.4	0.80	0.56	ppbv		84.6	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.6	0.80	0.44	ppbv		4.7	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.40	0.80	0.15	ppbv	J	2.2	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	105	0.16	0.056	ppbv		712	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	1.1	0.16	0.076	ppbv		5.9	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.1	0.80	0.62	ppbv		6.2	4.5	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR CHAIN OF CUSTODY

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Air

FED-EX Tracking # 770378356131 | Bottle Order Control # VP-011124-72
SGS Quote # | SGS Job # JD81528

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd.
City: Raleigh | State: NC | Zip: 29607
Project Contact: Conan Fitzgerald | E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100 | Fax #:
Sampler(s) Name(s):

Project Information

Project Name: Delavan SVE
Street: 4334 Main Hwy.
City: Bamberg | State: SC
Project #:
Client Purchase Order #: 1610011

Weather Parameters

Temperature (Fahrenheit)
Start: 58°F | Maximum:
Stop: 53°F | Minimum:
Atmoshpheric Pressure (inches of Hg)
Start: 30.09 | Maximum:
Stop: 30.09 | Minimum:
Other weather comment:

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor (I) Soil Vap (SV) Ambient (A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Requested Analysis: TO-15
1	SVE-EFF	SV	A2418	1L	FC1169	1/29/24	1100	30"	—	TD	1/29/24	1105	0	—	TD	X

Turnaround Time (Business days)

- [X] Standard - 15 Days
- [ ] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is Mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting

Comments / Remarks

Initial Assessment 1/29/24
Label Verification
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 W.J.	1128/24 10:15	1 Tim Dickey	2 Tim Dickey/AECOM	1/29/24 - 1300	2 FedEx
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 FedEx	1/31/24 10:25	3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #		
5		5			

Form SM088-03D (revised 2-12-19)

http://www.sgs.com/en/terms-and-conditions

SGS Sample Receipt Summary

Job Number: JD81528 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNOL

Date / Time Received: 1/31/2024 10:25:00 AM **Delivery Method:** fedex **Airbill #'s:** 700378356131

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 01/31/24

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A2418	1.4	29.4	01/19/24	DG	CP12588	8W03740.D	JD81528-1	02/01/24	DG	0			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving				
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type
FC1169	01/19/24	DG	186	.0833	02/01/24	DG	179	3.8	Flow Controller

SGS Bottle Order(s):
VP-011124-72

Prep Date	Room Temp(F)	Bar Pres "Hg
01/19/24	70	29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3341-MB	3W84809.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.024	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3341-MB	3W84809.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3341-MB	3W84809.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Method Blank Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-MB	8W03731.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here applies to the following samples: **Method:** TO-15

V8W148-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.024	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-MB	8W03731.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here applies to the following samples: **Method:** TO-15

V8W148-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-MB	8W03731.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here applies to the following samples: **Method:** TO-15

V8W148-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3341-BS	3W84806.D	1	02/12/24	TCH	n/a	n/a	V3W3341
V3W3341-BSD	3W84807.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.6	86	8.6	86	0	70-130/30
106-99-0	1,3-Butadiene	10	8.7	87	9.0	90	3	70-130/30
71-43-2	Benzene	10	10.3	103	10.3	103	0	70-130/30
75-27-4	Bromodichloromethane	10	11.3	113	11.4	114	1	70-130/30
75-25-2	Bromoform	10	12.7	127	12.6	126	1	70-130/30
74-83-9	Bromomethane	10	9.4	94	9.4	94	0	70-130/30
593-60-2	Bromoethene	10	8.8	88	8.9	89	1	70-130/30
100-44-7	Benzyl Chloride	10	10.4	104	10.1	101	3	70-130/30
75-15-0	Carbon disulfide	10	11.3	113	11.3	113	0	70-130/30
108-90-7	Chlorobenzene	10	10.2	102	10.2	102	0	70-130/30
75-00-3	Chloroethane	10	8.4	84	8.6	86	2	70-130/30
67-66-3	Chloroform	10	11.2	112	11.2	112	0	70-130/30
74-87-3	Chloromethane	10	9.2	92	9.7	97	5	70-130/30
107-05-1	3-Chloropropene	10	11.7	117	11.9	119	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.6	106	10.6	106	0	70-130/30
56-23-5	Carbon tetrachloride	10	12.0	120	12.1	121	1	70-130/30
110-82-7	Cyclohexane	10	10.5	105	10.6	106	1	70-130/30
75-34-3	1,1-Dichloroethane	10	11.3	113	11.4	114	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.3	103	10.4	104	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.0	110	10.8	108	2	70-130/30
107-06-2	1,2-Dichloroethane	10	12.0	120	12.1	121	1	70-130/30
78-87-5	1,2-Dichloropropane	10	10.5	105	10.5	105	0	70-130/30
123-91-1	1,4-Dioxane	10	10.8	108	10.9	109	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.1	111	11.1	111	0	70-130/30
124-48-1	Dibromochloromethane	10	11.2	112	11.0	110	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	11.3	113	11.3	113	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	11.2	112	11.3	113	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.8	118	11.7	117	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.4	114	11.2	112	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10.9	109	10.6	106	3	70-130/30
106-46-7	p-Dichlorobenzene	10	11.5	115	11.2	112	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	12.1	121	12.1	121	0	70-130/30
64-17-5	Ethanol	10	8.0	80	8.2	82	2	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.4	104	0	70-130/30
141-78-6	Ethyl Acetate	10	11.2	112	11.5	115	3	70-130/30
622-96-8	4-Ethyltoluene	10	11.0	110	11.0	110	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3341-BS	3W84806.D	1	02/12/24	TCH	n/a	n/a	V3W3341
V3W3341-BSD	3W84807.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.1	111	11.2	112	1	70-130/30
76-14-2	Freon 114	10	9.6	96	10.0	100	4	70-130/30
142-82-5	Heptane	10	12.2	122	12.2	122	0	70-130/30
87-68-3	Hexachlorobutadiene	10	12.1	121	11.4	114	6	70-130/30
110-54-3	Hexane	10	10.6	106	10.6	106	0	70-130/30
591-78-6	2-Hexanone	10	11.3	113	11.2	112	1	70-130/30
67-63-0	Isopropyl Alcohol	10	11.1	111	11.3	113	2	70-130/30
75-09-2	Methylene chloride	10	10.7	107	10.6	106	1	70-130/30
78-93-3	Methyl ethyl ketone	10	12.1	121	12.1	121	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.3	113	11.4	114	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	11.0	110	11.1	111	1	70-130/30
80-62-6	Methylmethacrylate	10	11.2	112	10.9	109	3	70-130/30
115-07-1	Propylene	10	11.0	110	11.2	112	2	70-130/30
100-42-5	Styrene	10	10.2	102	10.2	102	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	11.2	112	11.4	114	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.4	104	10.3	103	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.8	108	10.8	108	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	12.9	129	10.7	107	19	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.9	109	10.7	107	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.6	106	10.6	106	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.8	108	10.9	109	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.2	102	10.4	104	2	70-130/30
127-18-4	Tetrachloroethylene	10	10.1	101	10.0	100	1	70-130/30
109-99-9	Tetrahydrofuran	10	12.2	122	12.2	122	0	70-130/30
108-88-3	Toluene	10	10.3	103	10.3	103	0	70-130/30
79-01-6	Trichloroethylene	10	10.8	108	10.9	109	1	70-130/30
75-69-4	Trichlorofluoromethane	10	10.8	108	11.0	110	2	70-130/30
75-01-4	Vinyl chloride	10	8.9	89	9.2	92	3	70-130/30
108-05-4	Vinyl Acetate	10	12.3	123	12.2	122	1	70-130/30
	m,p-Xylene	20	20.7	104	20.7	104	0	70-130/30
95-47-6	o-Xylene	10	10.4	104	10.5	105	1	70-130/30
1330-20-7	Xylenes (total)	30	31.1	104	31.2	104	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3341-BS	3W84806.D	1	02/12/24	TCH	n/a	n/a	V3W3341
V3W3341-BSD	3W84807.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	102%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-BS	8W03728.D	1	01/17/24	TCH	n/a	n/a	V8W148
V8W148-BSD	8W03729.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here applies to the following samples: **Method:** TO-15

V8W148-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.4	104	10.9	109	5	70-130/30
106-99-0	1,3-Butadiene	10	10.4	104	10.9	109	5	70-130/30
71-43-2	Benzene	10	11.3	113	11.9	119	5	70-130/30
75-27-4	Bromodichloromethane	10	11.3	113	11.9	119	5	70-130/30
75-25-2	Bromoform	10	12.2	122	12.8	128	5	70-130/30
74-83-9	Bromomethane	10	11.1	111	11.6	116	4	70-130/30
593-60-2	Bromoethene	10	11.3	113	11.9	119	5	70-130/30
100-44-7	Benzyl Chloride	10	11.2	112	11.9	119	6	70-130/30
75-15-0	Carbon disulfide	10	10.8	108	11.4	114	5	70-130/30
108-90-7	Chlorobenzene	10	11.1	111	11.8	118	6	70-130/30
75-00-3	Chloroethane	10	10.6	106	11.1	111	5	70-130/30
67-66-3	Chloroform	10	10.5	105	11.0	110	5	70-130/30
74-87-3	Chloromethane	10	10.3	103	10.8	108	5	70-130/30
107-05-1	3-Chloropropene	10	10.5	105	11.1	111	6	70-130/30
95-49-8	2-Chlorotoluene	10	11.6	116	12.2	122	5	70-130/30
56-23-5	Carbon tetrachloride	10	11.3	113	12.0	120	6	70-130/30
110-82-7	Cyclohexane	10	11.8	118	12.4	124	5	70-130/30
75-34-3	1,1-Dichloroethane	10	10.6	106	11.2	112	6	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.9	109	11.4	114	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.5	115	12.3	123	7	70-130/30
107-06-2	1,2-Dichloroethane	10	9.6	96	10.1	101	5	70-130/30
78-87-5	1,2-Dichloropropane	10	10.0	100	10.6	106	6	70-130/30
123-91-1	1,4-Dioxane	10	11.5	115	12.1	121	5	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.8	108	11.4	114	5	70-130/30
124-48-1	Dibromochloromethane	10	11.6	116	12.2	122	5	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	11.7	117	12.2	122	4	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	11.5	115	12.1	121	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.3	113	12.0	120	6	70-130/30
541-73-1	m-Dichlorobenzene	10	11.7	117	12.4	124	6	70-130/30
95-50-1	o-Dichlorobenzene	10	11.7	117	12.2	122	4	70-130/30
106-46-7	p-Dichlorobenzene	10	11.8	118	12.5	125	6	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.2	112	12.0	120	7	70-130/30
64-17-5	Ethanol	10	10.9	109	11.3	113	4	70-130/30
100-41-4	Ethylbenzene	10	11.7	117	12.3	123	5	70-130/30
141-78-6	Ethyl Acetate	10	10.7	107	11.3	113	5	70-130/30
622-96-8	4-Ethyltoluene	10	12.1	121	12.9	129	6	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-BS	8W03728.D	1	01/17/24	TCH	n/a	n/a	V8W148
V8W148-BSD	8W03729.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here applies to the following samples: **Method:** TO-15

V8W148-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.0	110	11.4	114	4	70-130/30
76-14-2	Freon 114	10	10.8	108	11.4	114	5	70-130/30
142-82-5	Heptane	10	10.6	106	11.2	112	6	70-130/30
87-68-3	Hexachlorobutadiene	10	11.6	116	12.0	120	3	70-130/30
110-54-3	Hexane	10	10.2	102	10.8	108	6	70-130/30
591-78-6	2-Hexanone	10	10.6	106	11.3	113	6	70-130/30
67-63-0	Isopropyl Alcohol	10	10.5	105	11.1	111	6	70-130/30
75-09-2	Methylene chloride	10	10.5	105	10.9	109	4	70-130/30
78-93-3	Methyl ethyl ketone	10	10.9	109	11.6	116	6	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.2	102	10.7	107	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.6	106	11.4	114	7	70-130/30
80-62-6	Methylmethacrylate	10	11.3	113	11.9	119	5	70-130/30
115-07-1	Propylene	10	9.7	97	10.4	104	7	70-130/30
100-42-5	Styrene	10	12.4	124	13.0	130	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.7	107	11.3	113	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.3	113	11.9	119	5	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.9	109	11.6	116	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	12.7	127	13.3	133* [a]	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.6	116	12.3	123	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	12.0	120	12.7	127	6	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.2	102	10.8	108	6	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.4	94	10	100	6	70-130/30
127-18-4	Tetrachloroethylene	10	11.8	118	12.5	125	6	70-130/30
109-99-9	Tetrahydrofuran	10	11.5	115	12.1	121	5	70-130/30
108-88-3	Toluene	10	11.6	116	12.3	123	6	70-130/30
79-01-6	Trichloroethylene	10	11.1	111	11.8	118	6	70-130/30
75-69-4	Trichlorofluoromethane	10	10.6	106	11.0	110	4	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	10.6	106	4	70-130/30
108-05-4	Vinyl Acetate	10	12.2	122	13.1	131* [a]	7	70-130/30
	m,p-Xylene	20	23.3	117	24.6	123	5	70-130/30
95-47-6	o-Xylene	10	11.7	117	12.3	123	5	70-130/30
1330-20-7	Xylenes (total)	30	35.0	117	36.9	123	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-BS	8W03728.D	1	01/17/24	TCH	n/a	n/a	V8W148
V8W148-BSD	8W03729.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here applies to the following samples: **Method:** TO-15

V8W148-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	95%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD81528-1DUP	3W84814.D	1	02/12/24	TCH	n/a	n/a	V3W3341
JD81528-1	3W84813.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Compound	JD81528-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	11.0		10.9		1	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	25.7		25.9		1	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.45	J	0.45	J	0	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	2.4		2.5		4	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	4.5		4.3		5	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD81528-1DUP	3W84814.D	1	02/12/24	TCH	n/a	n/a	V3W3341
JD81528-1	3W84813.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Compound	JD81528-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	34.4		34.1		1	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	1.6		1.6		0	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	0.40	J	0.40	J	0	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	105		107		2	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	1.1		1.0		10	25
75-69-4	Trichlorofluoromethane	1.1		1.1		0	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD81528-1DUP	3W84814.D	1	02/12/24	TCH	n/a	n/a	V3W3341
JD81528-1	3W84813.D	1	02/12/24	TCH	n/a	n/a	V3W3341

The QC reported here applies to the following samples: **Method:** TO-15

JD81528-1

CAS No.	Surrogate Recoveries	DUP	JD81528-1	Limits
460-00-4	4-Bromofluorobenzene	97%	97%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-SCC	8W03739.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here (Summa A2359) applies to the following samples: **Method:** TO-15

Batch CP12588 cleaned 01/13/24: JD81528-1(A2418)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.024	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-SCC	8W03739.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here (Summa A2359) applies to the following samples: **Method:** TO-15

Batch CP12588 cleaned 01/13/24: JD81528-1(A2418)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W148-SCC	8W03739.D	1	01/17/24	TCH	n/a	n/a	V8W148

The QC reported here (Summa A2359) applies to the following samples: **Method:** TO-15

Batch CP12588 cleaned 01/13/24: JD81528-1(A2418)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Instrument Performance Check (BFB)

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3330-BFB	**Injection Date:**	01/29/24
Lab File ID:	3W84548.D	**Injection Time:**	19:46
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	50048	23.5		Pass
75	30.0 - 66.0% of mass 95	102773	48.3		Pass
95	Base peak, 100% relative abundance	212608	100.0		Pass
96	5.0 - 9.0% of mass 95	14707	6.92		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	172181	81.0		Pass
175	4.0 - 9.01% of mass 174	13580	6.39	(7.89) [a]	Pass
176	93.0 - 101.0% of mass 174	171307	80.6	(99.5) [a]	Pass
177	5.0 - 9.0% of mass 176	11511	5.41	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3330-IC3330	3W84549.D	01/29/24	20:26	00:40	Initial cal 0.04
V3W3330-IC3330	3W84550.D	01/29/24	21:06	01:20	Initial cal 0.1
V3W3330-IC3330	3W84551.D	01/29/24	21:46	02:00	Initial cal 0.2
V3W3330-IC3330	3W84552.D	01/29/24	22:29	02:43	Initial cal 0.5
V3W3330-IC3330	3W84554.D	01/29/24	23:48	04:02	Initial cal 5
V3W3330-ICC3330	3W84555.D	01/30/24	00:29	04:43	Initial cal 10
V3W3330-IC3330	3W84556.D	01/30/24	01:12	05:26	Initial cal 20
V3W3330-IC3330	3W84557.D	01/30/24	01:58	06:12	Initial cal 40
V3W3330-IC3330	3W84558.D	01/30/24	02:47	07:01	Initial cal 50
V3W3330-ICV3330	3W84561.D	01/30/24	04:48	09:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3341-BFB
Lab File ID: 3W84804.D
Instrument ID: GCMS3W
Injection Date: 02/12/24
Injection Time: 07:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	52304	23.1		Pass
75	30.0 - 66.0% of mass 95	109795	48.5		Pass
95	Base peak, 100% relative abundance	226347	100.0		Pass
96	5.0 - 9.0% of mass 95	14728	6.51		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	189632	83.8		Pass
175	4.0 - 9.01% of mass 174	14310	6.32	(7.55) [a]	Pass
176	93.0 - 101.0% of mass 174	182656	80.7	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	12150	5.37	(6.65) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3341-CC3330	3W84805.D	02/12/24	08:15	00:42	Continuing cal 10
V3W3341-BS	3W84806.D	02/12/24	09:05	01:32	Blank Spike
V3W3341-BSD	3W84807.D	02/12/24	09:47	02:14	Blank Spike Duplicate
V3W3341-MB	3W84809.D	02/12/24	11:27	03:54	Method Blank
JD81528-1	3W84813.D	02/12/24	14:35	07:02	SVE-EFF
JD81528-1DUP	3W84814.D	02/12/24	15:15	07:42	Duplicate
ZZZZZZ	3W84815.D	02/12/24	16:02	08:29	(unrelated sample)
ZZZZZZ	3W84816.D	02/12/24	16:43	09:10	(unrelated sample)
ZZZZZZ	3W84817.D	02/12/24	17:24	09:51	(unrelated sample)
ZZZZZZ	3W84818.D	02/12/24	18:05	10:32	(unrelated sample)
ZZZZZZ	3W84819.D	02/12/24	18:46	11:13	(unrelated sample)
ZZZZZZ	3W84820.D	02/12/24	19:27	11:54	(unrelated sample)
ZZZZZZ	3W84821.D	02/12/24	20:09	12:36	(unrelated sample)
ZZZZZZ	3W84822.D	02/12/24	20:49	13:16	(unrelated sample)
ZZZZZZ	3W84823.D	02/12/24	21:31	13:58	(unrelated sample)
ZZZZZZ	3W84824.D	02/12/24	22:12	14:39	(unrelated sample)
ZZZZZZ	3W84825.D	02/12/24	22:53	15:20	(unrelated sample)
ZZZZZZ	3W84826.D	02/12/24	23:35	16:02	(unrelated sample)
V3W3341-SCC	3W84828.D	02/13/24	01:01	17:28	Summa Cleaning Certification
V3W3341-SCC	3W84829.D	02/13/24	01:47	18:14	Summa Cleaning Certification
V3W3341-SCC	3W84830.D	02/13/24	02:34	19:01	Summa Cleaning Certification
V3W3341-SCC	3W84831.D	02/13/24	03:20	19:47	Summa Cleaning Certification
V3W3341-SCC	3W84832.D	02/13/24	04:05	20:32	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W124-BFB	**Injection Date:**	12/19/23
Lab File ID:	8W03113.D	**Injection Time:**	20:37
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	33235	18.0		Pass
75	30.0 - 66.0% of mass 95	91059	49.3		Pass
95	Base peak, 100% relative abundance	184597	100.0		Pass
96	5.0 - 9.0% of mass 95	12182	6.60		Pass
173	Less than 2.0% of mass 174	921	0.50	(0.65) [a]	Pass
174	50.0 - 120.0% of mass 95	142784	77.3		Pass
175	4.0 - 9.01% of mass 174	10030	5.43	(7.02) [a]	Pass
176	93.0 - 101.0% of mass 174	137472	74.5	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	8885	4.81	(6.46) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W124-IC0124	8W03114.D	12/19/23	21:11	00:34	Initial cal 0.04
V8W124-IC0124	8W03115.D	12/19/23	21:45	01:08	Initial cal 0.10
V8W124-IC0124	8W03116.D	12/19/23	22:20	01:43	Initial cal 0.20
V8W124-IC0124	8W03117.D	12/19/23	22:56	02:19	Initial cal 0.50
V8W124-IC0124	8W03119.D	12/20/23	00:03	03:26	Initial cal 5
V8W124-ICC0124	8W03120.D	12/20/23	00:38	04:01	Initial cal 10
V8W124-IC0124	8W03121.D	12/20/23	01:14	04:37	Initial cal 20
V8W124-IC0124	8W03122.D	12/20/23	01:55	05:18	Initial cal 40
V8W124-IC0124	8W03123.D	12/20/23	02:37	06:00	Initial cal 50
V8W124-ICV0124	8W03126.D	12/20/23	04:21	07:44	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W148-BFB	**Injection Date:**	01/17/24
Lab File ID:	8W03726.D	**Injection Time:**	08:13
Instrument ID:	GCMS8W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	39200	16.2		Pass
75	30.0 - 66.0% of mass 95	114288	47.2		Pass
95	Base peak, 100% relative abundance	241920	100.0		Pass
96	5.0 - 9.0% of mass 95	16041	6.63		Pass
173	Less than 2.0% of mass 174	1000	0.41	(0.49) [a]	Pass
174	50.0 - 120.0% of mass 95	205973	85.1		Pass
175	4.0 - 9.01% of mass 174	15207	6.29	(7.38) [a]	Pass
176	93.0 - 101.0% of mass 174	200277	82.8	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	13117	5.42	(6.55) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W148-CC124	8W03727.D	01/17/24	08:49	00:36	Continuing cal 10
V8W148-BS	8W03728.D	01/17/24	09:58	01:45	Blank Spike
V8W148-BSD	8W03729.D	01/17/24	10:33	02:20	Blank Spike Duplicate
V8W148-MB	8W03731.D	01/17/24	12:34	04:21	Method Blank
V8W148-SCC	8W03732.D	01/17/24	13:21	05:08	Summa Cleaning Certification
V8W148-SCC	8W03733.D	01/17/24	13:56	05:43	Summa Cleaning Certification
V8W148-SCC	8W03734.D	01/17/24	14:32	06:19	Summa Cleaning Certification
V8W148-SCC	8W03735.D	01/17/24	15:07	06:54	Summa Cleaning Certification
V8W148-SCC	8W03736.D	01/17/24	15:42	07:29	Summa Cleaning Certification
V8W148-SCC	8W03737.D	01/17/24	16:16	08:03	Summa Cleaning Certification
V8W148-SCC	8W03738.D	01/17/24	16:51	08:38	Summa Cleaning Certification
V8W148-SCC	8W03739.D	01/17/24	17:26	09:13	Summa Cleaning Certification
V8W148-SCC	8W03740.D	01/17/24	18:00	09:47	Summa Cleaning Certification
V8W148-SCC	8W03742.D	01/17/24	19:10	10:57	Summa Cleaning Certification
V8W148-SCC	8W03744.D	01/17/24	20:20	12:07	Summa Cleaning Certification
V8W148-SCC	8W03745.D	01/17/24	20:56	12:43	Summa Cleaning Certification
V8W148-SCC	8W03746.D	01/17/24	21:30	13:17	Summa Cleaning Certification
V8W148-SCC	8W03747.D	01/17/24	23:55	15:42	Summa Cleaning Certification
V8W148-SCC	8W03748.D	01/18/24	00:30	16:17	Summa Cleaning Certification
V8W148-SCC	8W03749.D	01/18/24	01:06	16:53	Summa Cleaning Certification
V8W148-SCC	8W03750.D	01/18/24	01:41	17:28	Summa Cleaning Certification
V8W148-SCC	8W03751.D	01/18/24	02:16	18:03	Summa Cleaning Certification
V8W148-SCC	8W03752.D	01/18/24	02:57	18:44	Summa Cleaning Certification
V8W148-SCC	8W03753.D	01/18/24	03:39	19:26	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V8W148-BFB	**Injection Date:**	01/17/24
Lab File ID:	8W03726.D	**Injection Time:**	08:13
Instrument ID:	GCMS8W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W148-SCC	8W03755.D	01/18/24	05:02	20:49	Summa Cleaning Certification
V8W148-SCC	8W03756.D	01/18/24	05:43	21:30	Summa Cleaning Certification
V8W148-SCC	8W03757.D	01/18/24	06:24	22:11	Summa Cleaning Certification
V8W148-SCC	8W03758.D	01/18/24	07:05	22:52	Summa Cleaning Certification
V8W148-SCC	8W03759.D	01/18/24	07:46	23:33	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD81528
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD81528-1	3W84813.D	97
JD81528-1DUP	3W84814.D	97
V3W3341-BS	3W84806.D	102
V3W3341-BSD	3W84807.D	102
V3W3341-MB	3W84809.D	94
V8W148-SCC	8W03739.D	94
V8W148-BS	8W03728.D	96
V8W148-BSD	8W03729.D	95
V8W148-MB	8W03731.D	93

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%