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From: Alexander, Leslee (Greenville) <Leslee.Alexander@aecom.com>
Sent: Monday, February 27, 2023 5:42 PM
To: Devlin, Cynde <devlincl@dhec.sc.gov>
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Subject: Delavan Site - Fall 2022 Semi-Annual Report with attached Fall 2022 Residential Sampling Tech Memo

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Good evening, Cynde.

The Fall 2022 Semi-Annual Groundwater Monitoring Report for the Delavan Spray Technologies Site is attached. The Technical Memorandum documenting residential well sampling and maintenance activities is included as an Appendix to the report. A hard copy with attached cd is also on its way to you via FedEx.

Please feel free to contact me or the AECOM PM, Conan Fitzgerald, if you have any questions.

Best regards,
Leslee

Leslee J. Alexander PG

Senior Hydrogeologist / Project Manager, AECOM

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February 27, 2023

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

RECEIVED
MAR 07 2023
SITE ASSESSMENT,
REMEDIATION, &
REVITALIZATION

Re: Fall 2022 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 60681452

Dear Ms. Devlin:

AECOM Technical Services, Inc. (AECOM) has prepared one (1) hard copy and one (1) electronic copy of the Fall 2022 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
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cc: Paul DiNardo – Raytheon Technologies Corporation
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AECOM

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MAR 07 2023
SITE ASSESSMENT,
REMEDIATION, &
REVITALIZATION

Fall 2022 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

February 2023

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FALL 2022 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

DELAVAN SPRAY TECHNOLOGIES SITE
BAMBERG, SOUTH CAROLINA

RESPONSIBILITY PARTY VOLUNTARY CLEANUP CONTRACT NUMBER 13-4762

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

Prepared by:

Mariah Rockwell
AECOM Geologist

February 27, 2023
Date

Ian J. Ros, PE
AECOM Remediation Engineer

February 27, 2023
Date

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

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

February 27, 2023
Date

Reviewed by:

Conan Fitzgerald
AECOM Project Manager

February 27, 2023
Date

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1. Introduction

AECOM Technical Services, Inc. (AECOM) has prepared this *Fall 2022 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 2022 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 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, personnel from Raytheon Technologies Corporation and AECOM, on behalf of Delavan, met with SCDHEC to discuss the results of the off-site delineation and the path forward for the Site. Following this meeting, SCDHEC requested that surface water samples be collected from the unnamed tributary to Lemon Creek during the next semi-annual sampling effort (SCDHEC, March 2020). AECOM submitted the proposed plan for surface water sampling to SCDHEC on March 25, 2020 and SCDHEC approved the plan in correspondence dated April 7, 2020. Surface water sampling has been included in the semi-annual monitoring events since April 2020 and the results from the Fall 2022 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 revisions to the FS Report to include remedies for the off-site groundwater impacts. The 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. Both of these documents are currently in review by the agency.

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. 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 2022 semi-annual sampling activities were completed by AECOM personnel during October 24-27, 2022 and November 15, 2022. 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 46 existing monitoring wells using passive diffusion bag (PDB) sampling techniques. Groundwater indicator parameters were collected from 45 monitoring wells (parameters could not be collected from MW-20 due to insufficient water). All 46 groundwater samples were submitted for analysis of VOCs;
- 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).
- A composite sample was collected from one (1) partially filled drum of aqueous investigation-derived waste (IDW) for analysis of VOCs, semi-volatile organic compounds (SVOCs) and priority pollutant metals for IDW characterization purposes.

In addition, groundwater samples were collected from 8 residential wells in conjunction with this event (**Figure 4**). Three residential wells were not functional at time of sampling and a sample could not be retrieved. Residential well sampling activities and results are presented in a separate technical memorandum, which has been included as **Appendix A**.

The depth to water in the monitoring wells was measured using an electronic water level meter on October 24, 2022, 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 43 monitoring wells after groundwater depths were measured on October 24, 2023. 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 feet above the bottom of the well. HydraSleeves® were left to equilibrate for a minimum of 48 hours before samples were collected on October 25-27, 2022. Polyethylene PDBs, which require 14-days to equilibrate – were sampled on November 15, 2022. 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. The aqueous IDW sample was analyzed for VOCs by USEPA Method 8260D, SVOCs by USEPA Method 8270E, and priority pollutant metals by USEPA Methods 6010D and 7470A. Monitoring well groundwater, surface water, and aqueous IDW samples were analyzed by SGS North American, Inc., located in Orlando, Florida, a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and State of South Carolina certified laboratory. Laboratory analytical data packages are provided in **Appendix C**.

4. Results

4.1 Groundwater Flow

Water level measurements were collected on October 24, 2022 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 2022 water levels within the shallow aquifer zone occur between 130.63 and 135.45 feet in elevation. Shallow water level elevations are 2.8 feet lower on average than those collected during the spring 2022 groundwater monitoring event (April 2022). Compared to shallow aquifer zone water levels measured during the fall 2021 groundwater monitoring event (October 2021), October 2022 water levels on average were 1.1 feet lower. These differences are likely attributable to precipitation differences during these time periods (National Oceanic and Atmospheric Administration [NOAA] National Centers for Environmental Information [NCEI], February 2023). Shallow flow patterns resulting from the fall 2022 water level measurements are similar to those observed previously at the Site. The equal potential lines indicate groundwater flow beneath the Facility varies between southwestward and westward flow directions, with a local groundwater depression beneath the Facility building at monitoring wells MW-5, MW-6, MW-8, MW-10, 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 prior investigations conducted at the Site.

Based on the October 2022 water level elevations within the deeper limestone aquifer zone, the potentiometric surface occurs between 128.03 and 133.25 feet in elevation (**Figure 6**). Groundwater elevations in October 2022 are on average 1.3 feet lower than those measured during the spring 2022 groundwater monitoring event (April 2022) and are on average 0.5 feet lower than those collected during the fall 2021 groundwater monitoring event (October 2021). 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 October 2022 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 9.33E-03 feet per foot (ft/ft) at MW-10/MW-10D to 5.02E-02 ft/ft at MW-21/MW-21D. The shallow to deeper gradient near Half Moon Branch was an upward gradient of -6.21E-02 at MW-15/MW-15D and -5.61E-03 at MW-16/MW-16D. For the deeper limestone aquifer / deep sandstone aquifer well pair, the gradient was 0.00E+00 at MW-3D/MW-3D1 and 1.00E-03 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**.

Shallow Aquifer Zone Monitoring Wells

VOCs

In the 24 groundwater samples collected from shallow aquifer zone groundwater during the fall 2022 semi-annual monitoring, seven (7) VOCs (PCE, TCE, cis-1,2-DCE, 1,1-DCE, vinyl chloride, methylene chloride, and acetone) were detected (**Table 4**).With the exception of acetone, all of the detected compounds exceeded their respective MCLs in one or more samples of shallow groundwater.

PCE was the most frequently detected VOC in shallow aquifer zone groundwater samples (9 detections) and groundwater concentrations exceeded the MCL (5 µg/L) in 9 shallow monitoring wells (MW-1, MW-3, MW-8, MW-9, MW-10, MW-19, MW-21, MW-24, and MW-37; **Figure 7**). The two highest concentrations of PCE were at monitoring well MW-19 (18,900 µg/L) and MW-37 (16,500 µg/L), which are in the vicinity of the Former Northern PCE Degreaser. Well MW-21, which is located adjacent to the Former PCE UST and has been one of the monitoring wells with the highest PCE concentrations each sampling event since the well was installed in February/March 2014, had a PCE concentration of 8,320 µg/L. Elevated but lower concentrations of PCE were detected in shallow aquifer groundwater in MW-24 (1,170 µg/L) along the western property boundary, in MW-9 (74.3 µg/L) and MW-10 (181 µg/L) located in the wooded areas of interest, in MW-8 (535 µg/L) located in the asphalt parking lot northeast of the main Facility building, in MW-3 (58.9 µg/L) downgradient of the Former PCE Secondary Containment Area, and in MW-1 (58 µg/L) adjacent to the Former PCE Secondary Containment Area. PCE was not detected in any shallow off-site monitoring wells (MW-14, MW-15, MW-16, MW-27, MW-28,and MW-29; **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 (87.3 µg/L), MW-9 (28.8 µg/L), MW-10 (131 µg/L), and MW-21 (254 µg/L).

Cis-1,2-DCE was detected in six (6) shallow monitoring wells and exceeded the MCL (70 µg/L) in two (2) monitoring wells, MW-10 (2,830 µg/L) and MW-21 (666 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 (120 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 four (4) shallow monitoring wells and exceeded the MCL (5 µg/L) in all four (4) locations – MW-10 (122 J µg/L), MW-19 (4,750 J µg/L), MW-20 (12.9 J µg/L), and MW-37 (2,400 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**).

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

Indicator Parameters

Groundwater quality indicator parameters were measured for all shallow monitoring wells during groundwater sampling, except for MW-20, which had insufficient water 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 October 2022, and exceeds tolerable levels (>5 mg/L) in all 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. The pH was within the optimal range for 15 of the 24 shallow monitoring wells sampled: MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, MW-10, MW-11, MW-14, MW-15, MW-16, MW-21, MW-27, MW-28.and MW-29. The low pH and elevated ORP levels observed over much of the shallow aquifer zone may inhibit natural degradation of chlorinated VOCs.

Analysis	Minimum	Maximum	Average	Optimal Range for Anaerobic Biodegradation Processes*
pH (S.U.)	4.63	7.02	5.24	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.79	4.63	2.55	<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)	21.5	284.5	188.9	<50 millivolts (mV) - Reductive pathway possible <-100mV - Reductive pathway likely

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

Data Trends

As shown in the table of historical VOC results (**Appendix D**) and the trend plots (**Appendix E**), the VOC concentrations in many wells have decreased with time from their highest values. For instance, the PCE concentration in MW-1, located adjacent to the Former PCE Secondary Containment Area, has decreased from a historic high of 15,000 µg/L in June 2003 to the current concentration of 58 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 of 74.3 µg/L in October 2022. 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 current PCE concentration is 181 µg/L. Similarly, the PCE concentration in MW-5 has decreased from a high of 345 µg/L in March 2005 and has been below the MCL for the last five monitoring events. The most recent (October 2022) PCE concentration in MW-5 is non-detect.

Other wells, such as MW-3, located immediately downgradient of the Former PCE UST and the Former PCE Secondary Containment Area, exhibit mixed trend results. The PCE concentration in MW-3 has decreased from a high of 391 µg/L in October 2010 to an estimated value of 0.92 J µg/L in April 2015. The PCE concentration in MW-3 then increased to 199 µg/L in April 2017 before decreasing to 77.30 µg/L in October 2017. The current concentration, 58.9 µg/L, is the lowest since October 2015. 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 had increased through October 2020 before decreasing to 224 µg/L in April 2021; the current concentration of 535 µg/L is the highest since the well was installed in 2003.

Concentrations of PCE in groundwater from MW-19, located near the northern-most Former PCE Degreaser exhibited an increasing trend between October 2014 (14,000 µg/L) and October 2016 (34,600 µg/L). The PCE concentration of MW-19 decreased to 18,700 µg/L in May 2018 but then increased to 53,900 µg/L in April 2021, which is the highest recorded concentration for this monitoring well; the current concentration is 18,900 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 fall 2018; PCE concentrations have since decreased and the current PCE concentration in MW-24 is 1,170 µg/L. The elevated concentrations observed in MW-24 since April 2017 are likely a result mass migrating from the hot-spot near MW-19. Other wells, such MW-20, which is located near the southern-most Former PCE Degreaser and was not detected in October 2022, 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 8,320 µg/L in October 2022. TCE concentration in MW-21 have also increased from a low of 2.3 µg/L in October 2016 to a high of 403 µg/L in October 2019; the current TCE concentration is 254 µg/L.

Deeper Limestone Aquifer Zone Monitoring Wells

VOCs

Twenty-two (22) groundwater samples were collected from the deeper limestone aquifer zone groundwater during October 2022, resulting in five (5) VOCs that were detected (PCE, TCE, cis-1,2-DCE, 1,1-DCE, and toluene; **Table 4**). Of these compounds, PCE, and TCE exceeded their respective MCLs in one or more samples.

PCE was detected in 11 deeper aquifer zone groundwater samples and groundwater concentrations exceeded the MCL (5 µg/L) in 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 (282 µg/L at MW-3D). PCE concentrations exceeded the MCL (5 µg/L) in on-site down-gradient monitoring wells MW-12D (25.9 µg/L) and MW-13D (86.9 µg/L), and in off-Site down-gradient monitoring wells MW-14D (68.2 µg/L), MW-22D (92.9 µg/L), MW-25D (90.1 µg/L), MW-26D (60.3 µg/L), MW-30D (67.4 µg/L), MW-31D (115 µg/L), and MW-32DR (22.2 µg/L).

TCE concentrations were detected in five (5) samples from the deeper aquifer zone during the Fall 2022 monitoring event. All of the detected concentrations were below the MCL (5 µg/L) except for one sample in on-Site well MW-3D (5.2 µg/L; **Figure 13**). TCE was also detected at estimated concentrations below the MCL in off-Site down-gradient wells MW-22D, MW-25D, MW-26D, and MW-30D.

Cis-1,2-DCE was detected in four (4) samples from deeper limestone aquifer zone groundwater during the fall 2022 monitoring event (MW-3D, MW-25D, MW-26D, and MW-30D). None of the detected concentrations exceeded the MCL for cis-1,2-DCE (70 µg/L; **Table 4**).

The groundwater contaminant plume in the deeper limestone aquifer is limited to PCE with one small area at MW-3D where the TCE concentration exceeds its MCL. The concentrations of all other constituents are either below their respective MCLs or not detected. Based on 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, MW-14D, 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, most likely attributed to the switch to PDB sampling methods that no longer using the flow through cell. ORP values measured in October 2022 are not favorable in most deeper aquifer monitoring wells, but indicate the reductive pathway is

possible at MW-9D, MW-16D, MW-34D, and MW-36D. Observed elevated ORP levels and the lack of dissolved oxygen levels in the favorable range in many areas may inhibit natural degradation of chlorinated VOCs.

Analysis	Minimum	Maximum	Average	Optimal Range for Anaerobic Biodegradation Processes*
pH (S.U.)	7.04	10.55	8.06	5 < pH < 9 - Optimal range for reductive pathway 5 > pH >9 - Outside optimal range for reductive pathway
Dissolved Oxygen (mg/L)	0.59	3.41	1.99	<0.5 mg/L - Tolerated, suppresses the reductive pathway at higher concentrations >5 mg/L - Not tolerated; however, VC may be oxidized aerobically
ORP (mV)	-131.0	193.3	73.9	<50 millivolts (mV) - Reductive pathway possible <-100mV - Reductive pathway likely

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

Data Trends

As with the shallow aquifer zone, the historical VOC results (**Appendix D**) and trend plots (**Appendix E**) for deeper groundwater show that the VOC concentrations in many wells have decreased with time from their highest values. For instance, PCE concentrations in MW-12D have decreased from a maximum of 451 µg/L detected in April 2010 to a low concentration of 12 µg/L in May 2011. Since then, PCE concentrations have fluctuated between 20.8 µg/L in November 2011 to 140 µg/L in April 2016. The current PCE concentration, 25.9 µg/L, is the lowest since October 2015. PCE concentrations in MW-13D have decreased from a maximum of 292 µg/L in April 2010 and have been relatively steady at less than 200 µg/L since May 2011, except for an increase to 298 µg/L in October 2016. Since then, the PCE concentration in MW-13D has decreased and the current concentration (86.9 µg/L) in within the range of recent concentrations. The periodic increases in PCE in the deeper, down-gradient monitoring wells (e.g., MW-12D and MW-13D) may be a lagging response to increases observed in shallow monitoring wells near source areas in previous monitoring events.

Some of the deep monitoring wells on-site have exhibited more varied PCE concentrations. For instance, the PCE concentration in MW-3D has decreased from a maximum of 764 µg/L detected in April 2010 to values between approximately 200 µg/L and 400 µg/L from March 2014 to April 2022. The October 2022 concentration, 282 µg/L, is within the recent range for this well. PCE concentrations in MW-21D have decreased from 283 µg/L in March 2014 to 72.9 µg/L in October 2017. The concentration then increased to 357 µg/L in October 2018 before decreasing to 9.6 µg/L in April 2020. The current PCE concentration in MW-21D, 0.81 J µg/L, is the lowest concentration since the well was installed in March 2014.

After the initial sampling of down-gradient well MW-14D, concentrations have remained fairly consistent throughout the monitoring period, ranging from approximately 50 µg/L and 90 µg/L. The current PCE concentration is 68.2 µg/L. In other down-gradient monitoring wells, such as MW-22D and MW-25D, PCE concentrations have remained fairly consistent since the wells were installed. Other wells exhibited relatively consistent PCE values until exhibiting a recent decline (e.g., MW-26D declined after October 2020) or were increasing until a recent decline in PCE values (e.g., MW-30D and MW-31D).

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

4.3 Surface Water Quality

Four (4) surface water samples were collected in October 2022 (**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 at a low, concentration in one sample from SW-01-LC (2.4 µg/L), collected downgradient of the PCE plume at the intersection of Lemon Creek with Hwy 601. The detected concentration of PCE was less than the USEPA Region 4 Ecological Surface Water Screening Level of 53 µg/L (USEPA Region 4 March 2018). The result was also 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). Chloroform was detected at a low, estimated concentration in one sample from SW-03-HMB (0.64 J µg/L), which is well below the MCL for chloroform (80 µg/L) and the SCDHEC WCS for chloroform (470 µg/L). No other VOCs were detected in surface water samples in October 2022 (**Table 5**).

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 detection in the downgradient portion of Lemon Creek (SW-01-LC), indicates that deeper aquifer groundwater impacted with PCE concentrations is mixing with shallow aquifer groundwater and discharging to Lemon Creek. This is consistent with the site conceptual model presented in the *Deep Groundwater Delineation Technical Memorandum* (AECOM, June 2020), which was approved by SCHDEC in correspondence dated June 23, 2020. Surface water sample SW-05-LC, collected down-gradient from the PCE detection in Lemon Creek, demonstrates that the PCE impacts to Lemon Creek are limited and delineated in the down-gradient direction.

4.4 Investigation-Derived Waste

One partial drum of purge and decontamination water was generated as IDW during the semi-annual sampling activities. One composite IDW water sample was collected from the drum for analysis of VOCs by USEPA Method 8260D, SVOCs by USEPA Method 8270E, and priority pollutant metals by USEPA Methods 6010D and 7470A. IDW sample results were screened against maximum concentration for the Toxicity Characteristic listed in Code of Federal Regulations (40CFR§261.24). The results are summarized in **Table 6** and show that the IDW is classified as non-hazardous. These results will be used to generate a waste profile and identify appropriate disposal options for the IDW with a Delavan-approved disposal facility. The drum is staged in a facility waste accumulation area. Delavan Spray Technologies Site personnel are managing the transport and disposal of IDW generated during semi-annual monitoring events.

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). QA/QC sample results are presented in **Table 7** and data qualifiers added to the analytical data as a result of the validation process are defined in **Table 8**. The data assessment reports (DARs; **Appendix C**) explain data qualifiers added to the sample results as a result of the validation process.

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

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

Field Duplicates

Duplicate samples, designated with an "-A" suffix, were collected at the frequency of one per ten primary samples for groundwater samples. The results of the primary and field duplicate groundwater samples are provided in **Table 7**. No data qualifiers were added to the data as a result of the RPD between the primary and field duplicate samples.

Trip Blanks

Trip blank samples were submitted daily for coolers containing an aqueous sample for the analysis of VOCs. The results of the trip blank samples are provided in **Table 7**. Detections of toluene occurred in all three laboratory packages. Therefore, all toluene detections were qualified "/B/T" in **Tables 4** and **5** due to the presence of the analyte in the sample and associated trip blank samples. As a result, all toluene results were qualified as not detected at the reported result.

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. Results of acetone, 4-methyl-2-pentanone, and tetrachloroethene in MW-30 were qualified "/M/M" due to high recovery in the associated matrix spike sample (658, 296, and 174%, respectively > 40-160%). These qualifiers indicate the results should be considered biased high. Results of acetone and 4-methyl-2-pentanone in MW-30 were qualified "/M/D" due to the relative percent difference between the associated matrix spike and matrix spike duplicate samples (77 and 86%, respectively > 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. During the monitoring period, the SVE system operated with an average vacuum of approximately 49 inches of water column (in-WC) which produced and average vacuum of approximately 42 in-WC at the SVE wells. The SVE blower operated at an average speed of approximately 32 Hertz (Hz) which produced an average discharge flowrate of approximately 434 cubic feet per minute (CFM). The SVE system operated with a runtime efficiency of 92 percent before experiencing downtime due to a full condensate storage tank during the months of December 2022 and January 2023 resulting in a cumulative runtime efficiency of 73 percent as of January 19, 2023. 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. During the monitoring period extending from June 15, 2022 to November 21, 2022, average vacuum measurements collected from the sub-slab vapor pins and vapor monitoring points ranged from 0.25 (SSV-1) to 4.90 in-WC (SSV-5) and 1.06 (VMP-6) to 10.35 in-WC (VMP-1), respectively. This data suggests sufficient vacuum throughout the unsaturated soils to mitigate COC impacted vapors underneath the main manufacturing building. Additionally, the SVE blower is operating at half of the maximum speed (60 Hz) indicating additional vapor capture potential, if needed in the future. The performance monitoring data is summarized in **Appendix F.**

Analytical data was also collected from the SVE system vapor stream on a monthly basis to evaluate COC mass removal. It should be noted that since the vapor stream does not undergo any active treatment (e.g., discharged directly to atmosphere), the influent and effluent concentrations are assumed to be equal. Based on the analytical results and mass calculations during the same monitoring period, 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 ($\mu g/m^3$) and the average influent concentration from August 29, 2022 to November 21, 2022 was 1,983 $\mu g/m^3$. Additionally, the SVE system exhibited a peak COC mass removal rate of approximately 1.36 pounds per day (lbs/day) and averaged 0.32 lbs/day over the monitoring period. The cumulative COC mass removal as of January 19, 2023 was approximately 17.53 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** and the analytical lab reports are provided in **Appendix G**.

6. Conclusions

The following conclusions are submitted based on the evaluation of the fall 2022 semi-annual monitoring results and a limited comparison to previous sampling results:

- Shallow water levels in October 2022 were on average 2.8 ft lower than those collected during the spring 2022 groundwater monitoring event (April 2022) and are on average 1.1 feet lower than those measured during the fall 2021 groundwater monitoring event (October 2021). In the deeper limestone aquifer, groundwater elevations in October 2022 are on average 1.3 feet lower than those measured during the spring 2022 groundwater monitoring event (April 2022) and are on average 0.5 feet lower than those collected during the fall 2021 groundwater monitoring event (October 2021). 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 2022 and fall 2021 monitoring events and previous investigations.

- Concentrations of VOCs in the main plume in the shallow aquifer are delineated on-Site and bounded by non-detect values of PCE in downgradient off-Site wells MW-27 and MW-28 (**Figure 7**). There were no COCs detected in October 2022 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 VOCs detected above its MCLs 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 (2.4 µg/L) in surface water sample SW-01-LC (**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 concentration of PCE was 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). Furthermore, a downgradient surface water sample at SW-05-LC was non-detect for PCE and demonstrates that the impacts to Lemon Creek are limited (**Figure 14**).

Based on the data collected and reviewed since the RI, water levels and groundwater VOC concentrations fluctuate over time in some areas of the Site. Some wells, including MW-13D and MW-20, exhibit trends in PCE concentration that track with water level fluctuations. Other wells, such as MW-9, MW-14D, MW-19 MW-21, and MW-21D, exhibit mixed behavior or no trend regarding VOC and water level trends. The cause for the observed trends is not completely clear and is complicated by the residual VOC mass that has been documented to be present in hot-spots beneath the building footprint (i.e., in the vicinity of the Former PCE Degreasers).

- In approximately one-half year of SVE system operation, the cumulative mass removed was 17.53 lbs of COCs. The effluent concentration dropped during that time from 34,300 µg/m^3 to 1,800 µg/m^3 in November, the final result for 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 2023. 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 o0f the Revised SAP (AECOM, September 2022).

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

SCDHEC, March 1, 2019. Correspondence Re: Delavan Spray Technology Site, Pre-Pilot Study High Resolution Site Characterization Work Plan, Bamberg, SC, File #51778.

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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.

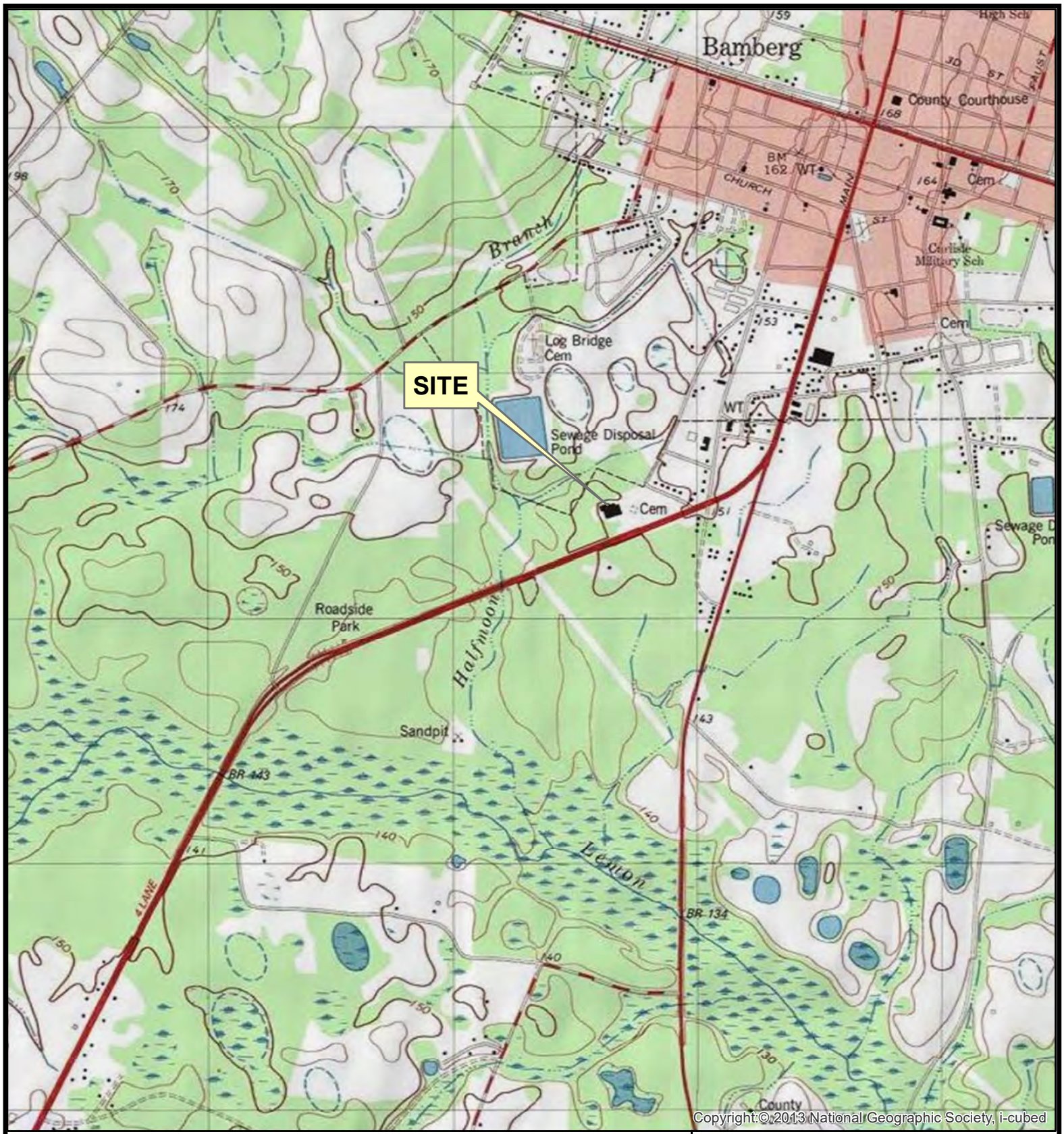
SCDHEC, April 19, 2021. Correspondence Re: Delavan Spray Technology Site, High Resolution Source Characterization Report dated March 9, 2021, Bamberg, SC, File #51778.

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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)

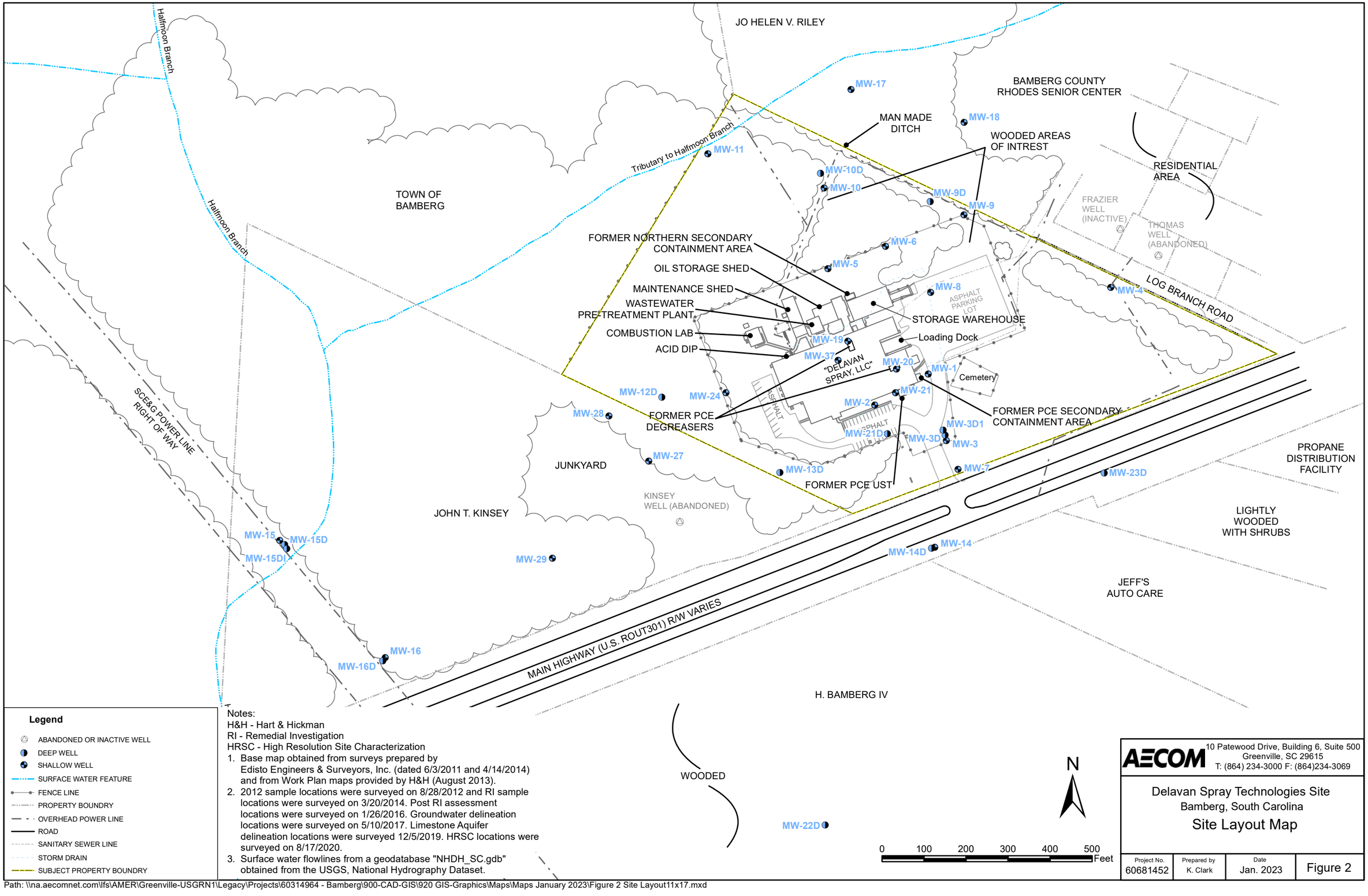
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-3000 F: (864)234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Site Location Map

Project No.	Prepared by	Date	
60681452	KCG	Jan. 2023	Figure 1

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 1 Site Location Map.mxd



Legend

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

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

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

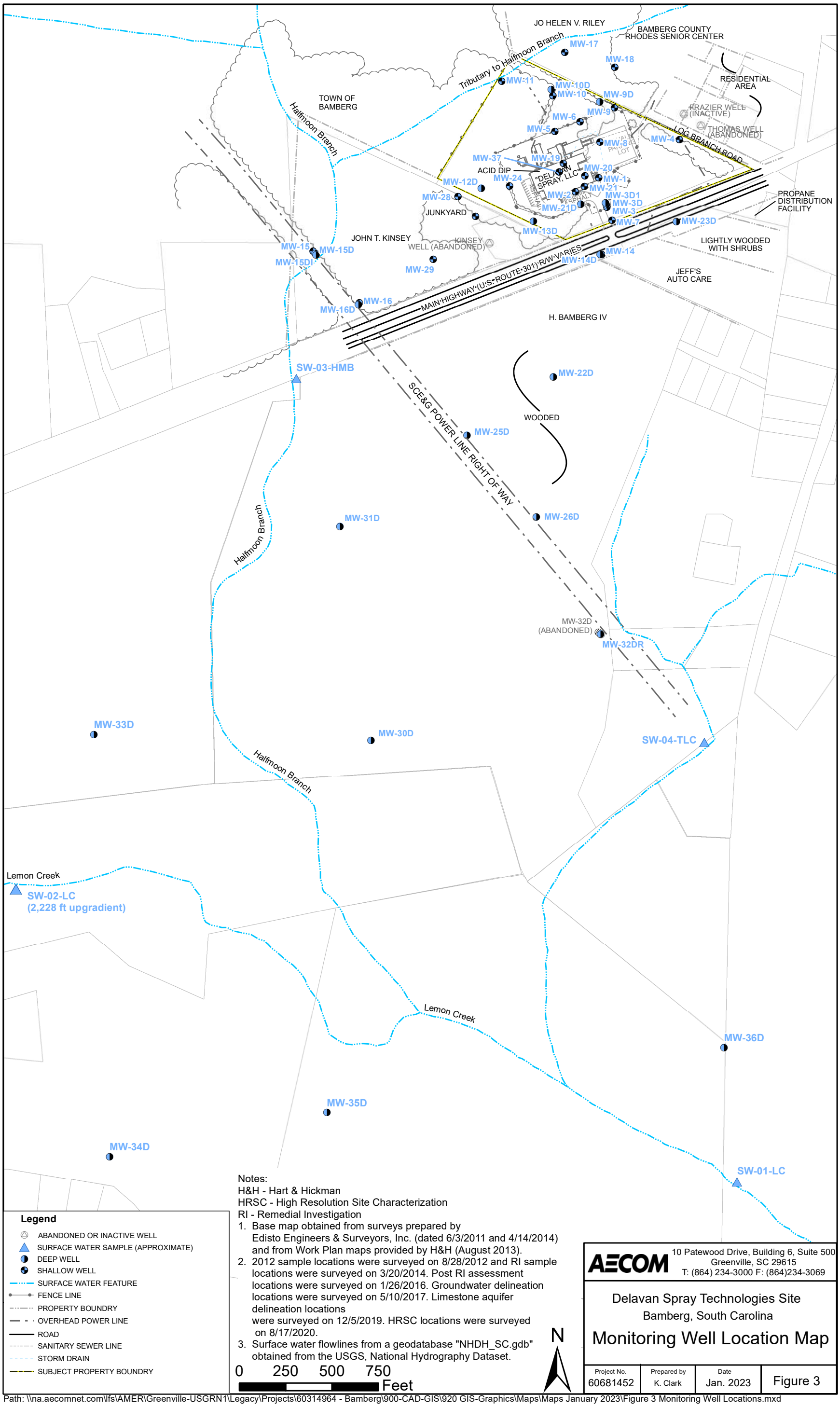
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Delavan Spray Technologies Site
Bamberg, South Carolina

Site Layout Map

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 2

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 2 Site Layout11x17.mxd



Legend

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

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

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

0 250 500 750 Feet

N

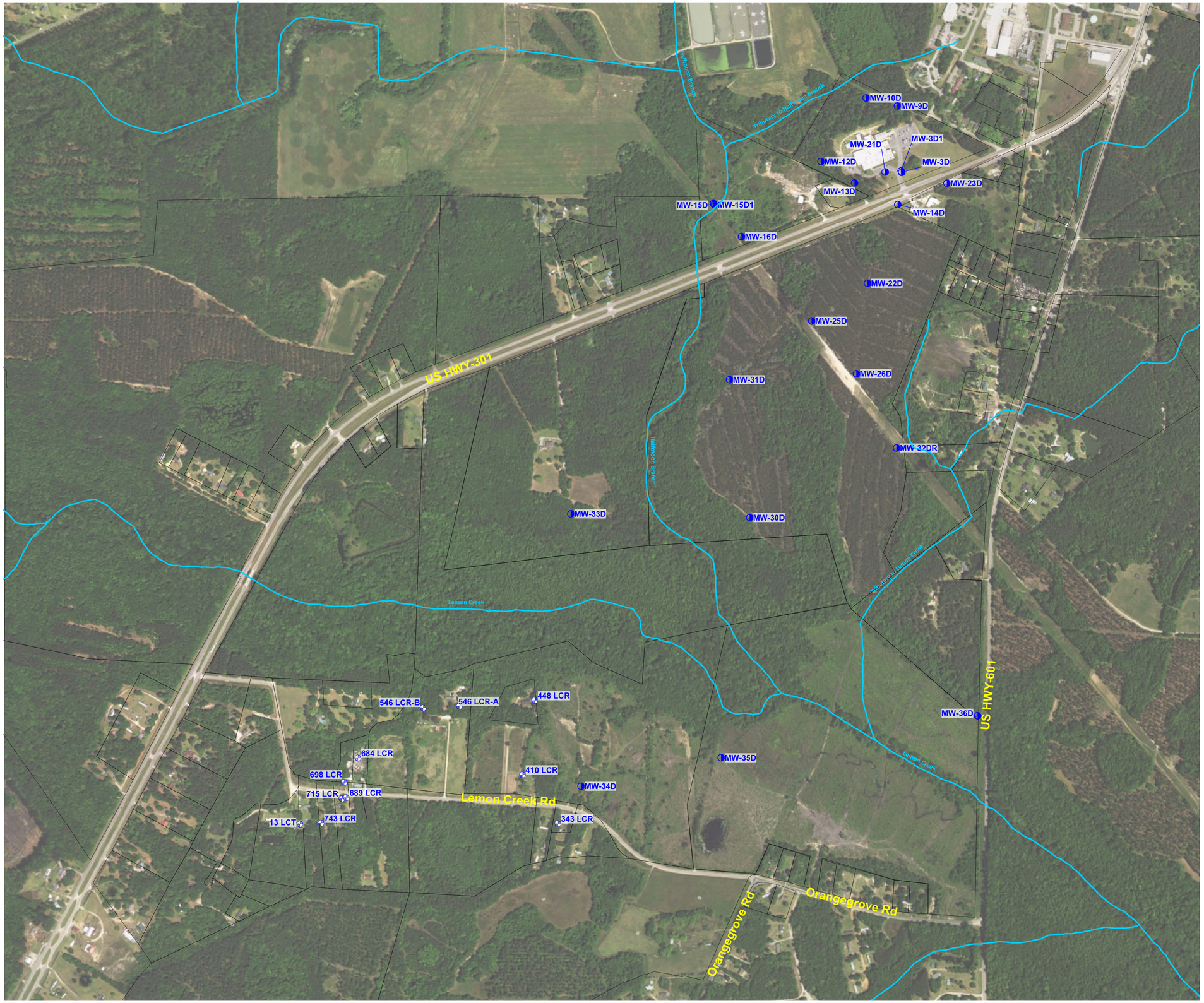
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Delavan Spray Technologies Site
Bamberg, South Carolina

Monitoring Well Location Map

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 3

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 3 Monitoring Well Locations.mxd



LEGEND

438BBR Well Sample ID

Residential Well Sample Location

Deep Monitoring Well

Property Boundary

Surface Water

Notes:
1) Locations 343 LCR, 546 LCR-A, and 698 LCR were not sampled in October 2022 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

0 121.92024384 243.84048768
FEET

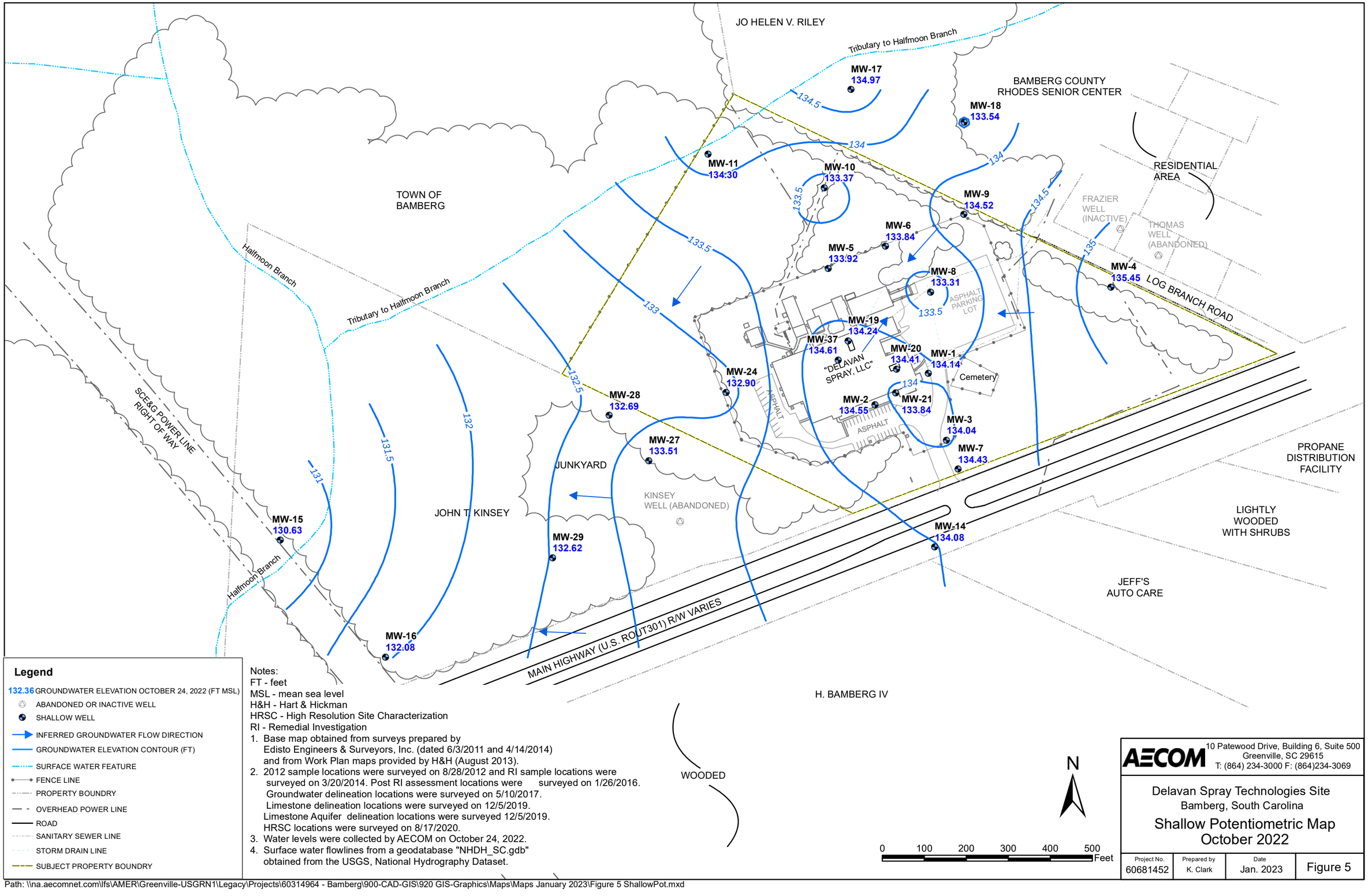
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Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

Project No.	Prepared by	Date	
60629985	L. Alexander	February 2022	Figure 4

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2022 Plume maps\Residential Properties Samples PCE October 2022.srf



Legend

- 132.36 GROUNDWATER ELEVATION OCTOBER 24, 2022 (FT MSL)
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (FT)
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

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

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. (dated 6/3/2011 and 4/14/2014) and from Work Plan maps provided by H&H (August 2013).
2. 2012 sample locations were surveyed on 8/28/2012 and RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed on 5/10/2017. Limestone delineation locations were surveyed on 12/5/2019. Limestone Aquifer delineation locations were surveyed 12/5/2019. HRSC locations were surveyed on 8/17/2020.
3. Water levels were collected by AECOM on October 24, 2022.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

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Delavan Spray Technologies Site
Bamberg, South Carolina

Shallow Potentiometric Map October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 5

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 5 ShallowPot.mxd

JO HELEN V. RILEY

BAMBERG COUNTY
RHODES SENIOR CENTER

MAN MADE
DITCH

TOWN OF
BAMBERG

MW-10D
133.03

MW-9D
133.25

RESIDENTIAL
AREA

FRAZIER
WELL
(INACTIVE)

THOMAS
WELL
(ABANDONED)

LOG BRANCH ROAD

ASPHALT
PARKING
LOT

"DELAVAN
SPRAY, LLC"

Cemetery

MW-12D
132.73

MW-3D
132.74

MW-13D
132.60

MW-21D
132.76

MW-23D
132.78

PROPANE
DISTRIBUTION
FACILITY

JUNKYARD

KINSEY
WELL (ABANDONED)

LIGHTLY
WOODED
WITH SHRUBS

MW-15D
132.40

JOHN T. KINSEY

MW-14D
132.58

JEFF'S
AUTO CARE

MW-16D
132.24

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

H. BAMBERG IV

MW-22D
132.47

WOODED

MW-25D
132.36

SCE&G POWER LINE
RIGHT OF WAY

MW-26D
132.21

MW-31D
131.62

MW-32DR
131.08

MW-32D
(ABANDONED)

MW-33D
131.40

MW-30D
130.48

MW-36D
128.03

MW-35D
129.67

MW-34D
131.36

132
132.5
131.5
131
130.5
130
129.5
129
128.5

Legend

128.48 GROUNDWATER ELEVATION OCTOBER 24, 2022 (FT MSL)
ABANDONED OR INACTIVE WELL
DEEP WELL
INFERRED GROUNDWATER FLOW DIRECTION
GROUNDWATER ELEVATION CONTOUR (FT)
SURFACE WATER FEATURE
FENCE LINE
PROPERTY BOUNDRY
OVERHEAD POWER LINE
ROAD
SANITARY SEWER LINE
STORM DRAIN LINE
SUBJECT PROPERTY BOUNDRY

Notes:
H&H - Hart & Hickman
RI - Remedial Investigation
HRSC - High Resolution Site Characterization
NS - Not Sampled; Posted result is from October 2020

1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. (dated 6/3/2011 and 4/14/2014) and from Work Plan maps provided by H&H (August 2013).
2. 2012 sample locations were surveyed on 8/28/2012 and RI sample locations were surveyed on 3/20/2014. Post RI assessment locations were surveyed on 1/26/2016. Groundwater delineation locations were surveyed on 5/10/2017. Limestone Aquifer delineation locations were surveyed 12/5/2019. HRSC locations were surveyed on 8/17/2020.
3. Water levels were collected by AECOM on October 24,2022.
4. Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.

N

0 250 500 750 Feet

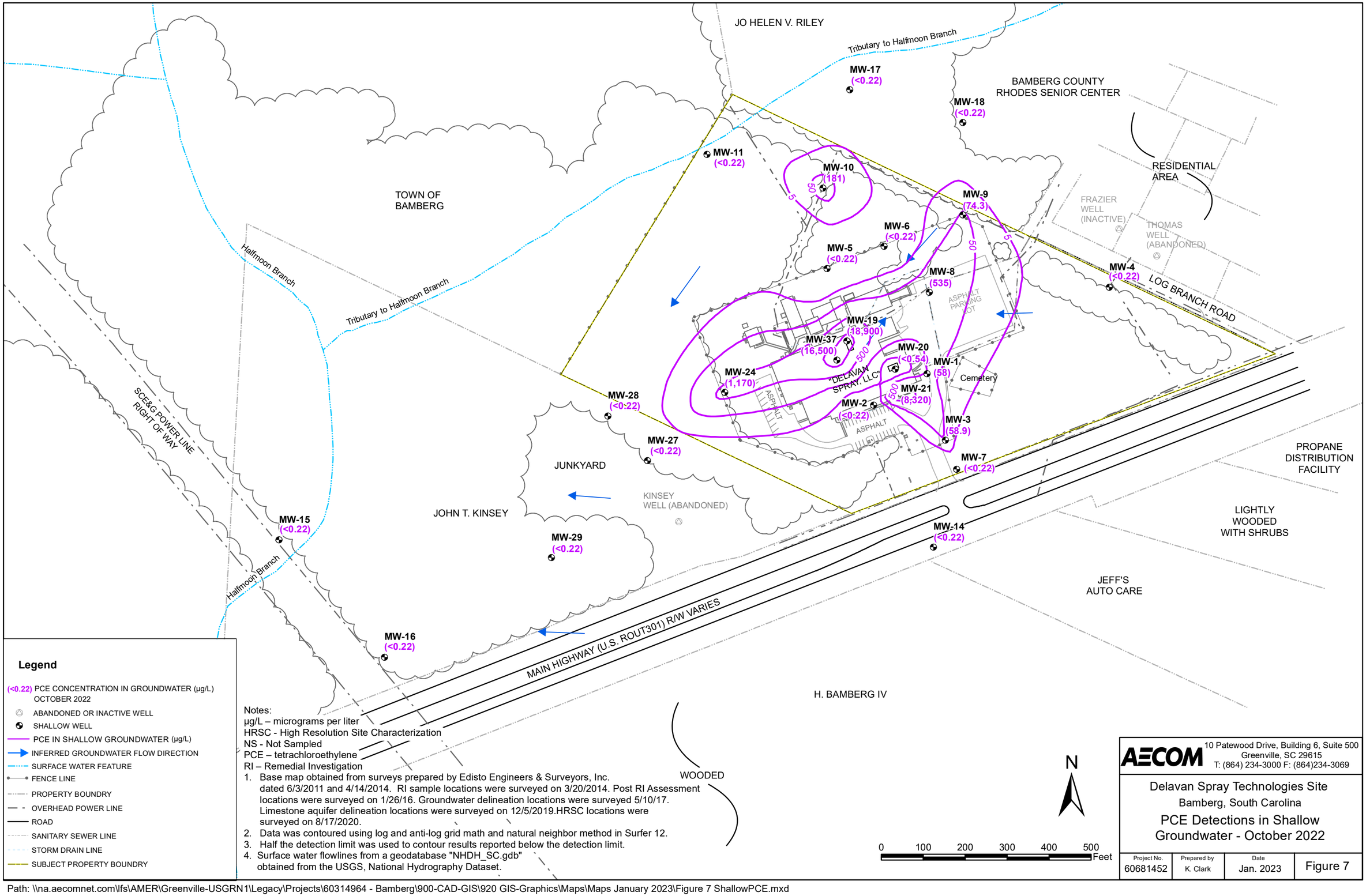
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Delavan Spray Technologies Site
Bamberg, South Carolina

Deep Potentiometric Map October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 6

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 6 Deep Pot.mxd



Legend

- (<0.22) PCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2022
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- PCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
NS - Not Sampled
PCE – tetrachloroethylene
RI – Remedial Investigation

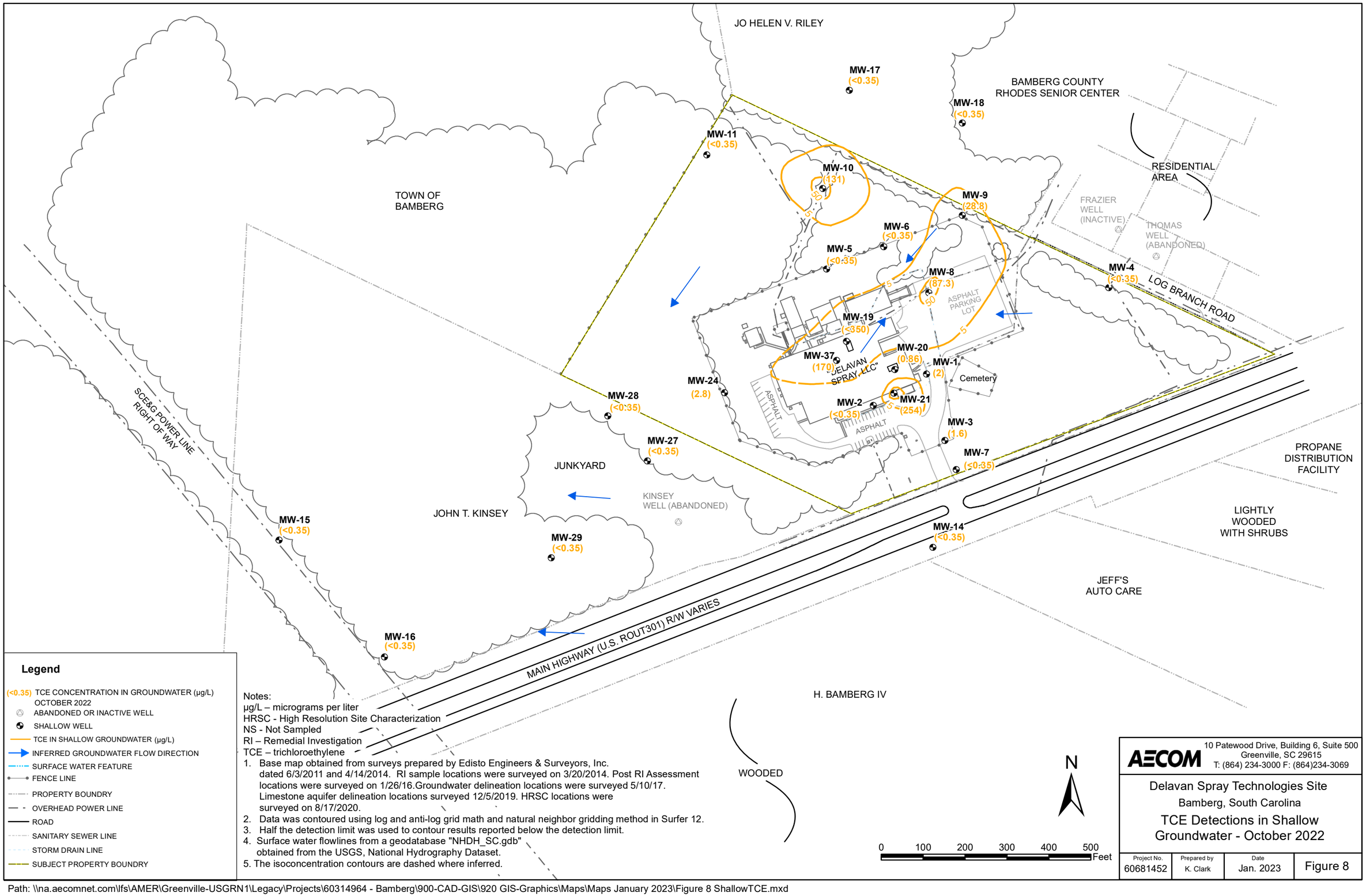
1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16. Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation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

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Delavan Spray Technologies Site
Bamberg, South Carolina
PCE Detections in Shallow Groundwater - October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 7

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 7 ShallowPCE.mxd



Legend

- (<0.35) TCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2022
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- TCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
NS - Not Sampled
RI – Remedial Investigation
TCE – trichloroethylene

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

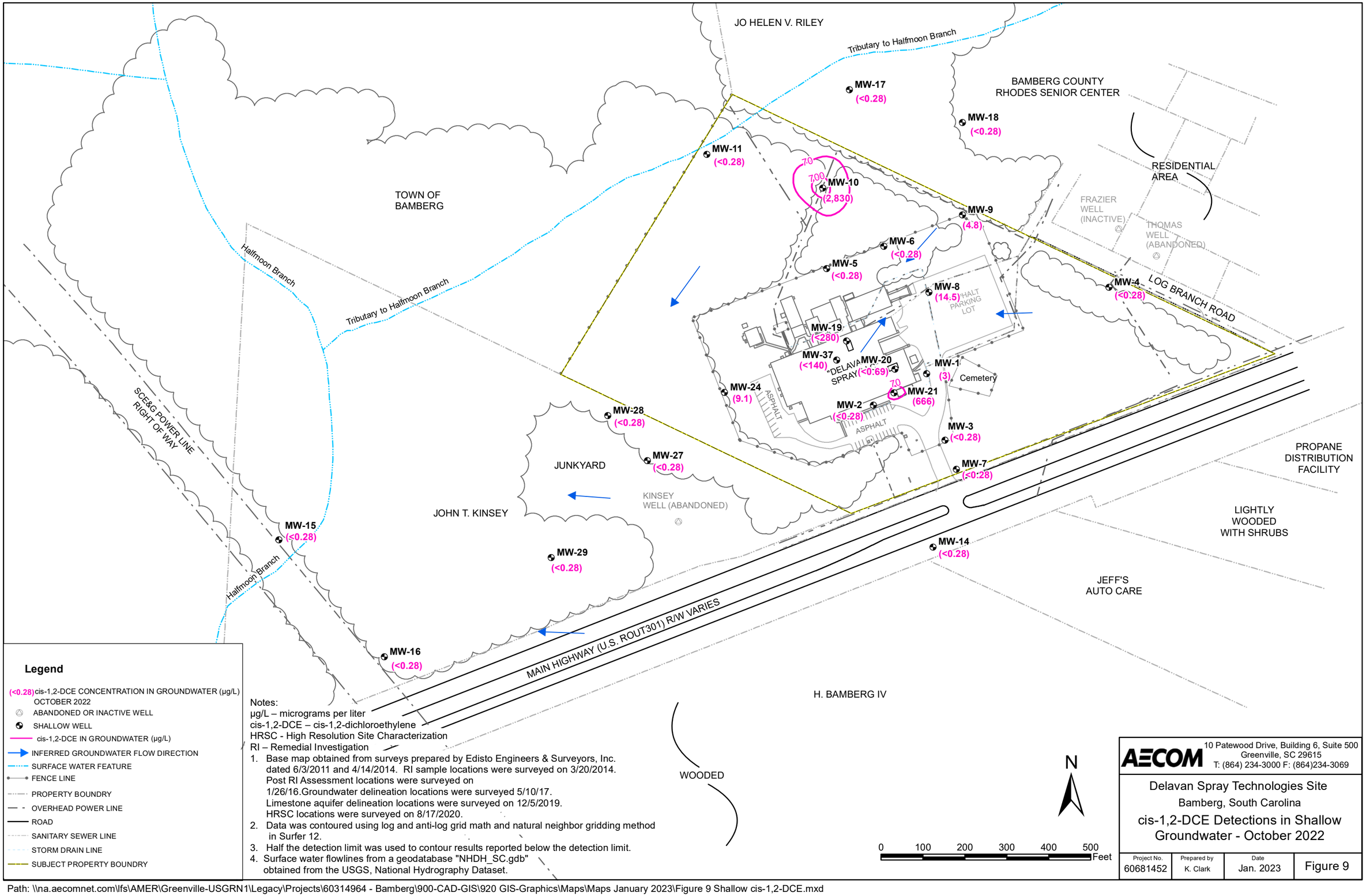
AECOM
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Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

TCE Detections in Shallow Groundwater - October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 8

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 8 ShallowTCE.mxd



Legend

- (<0.28) cis-1,2-DCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2022
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- cis-1,2-DCE IN GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

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

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

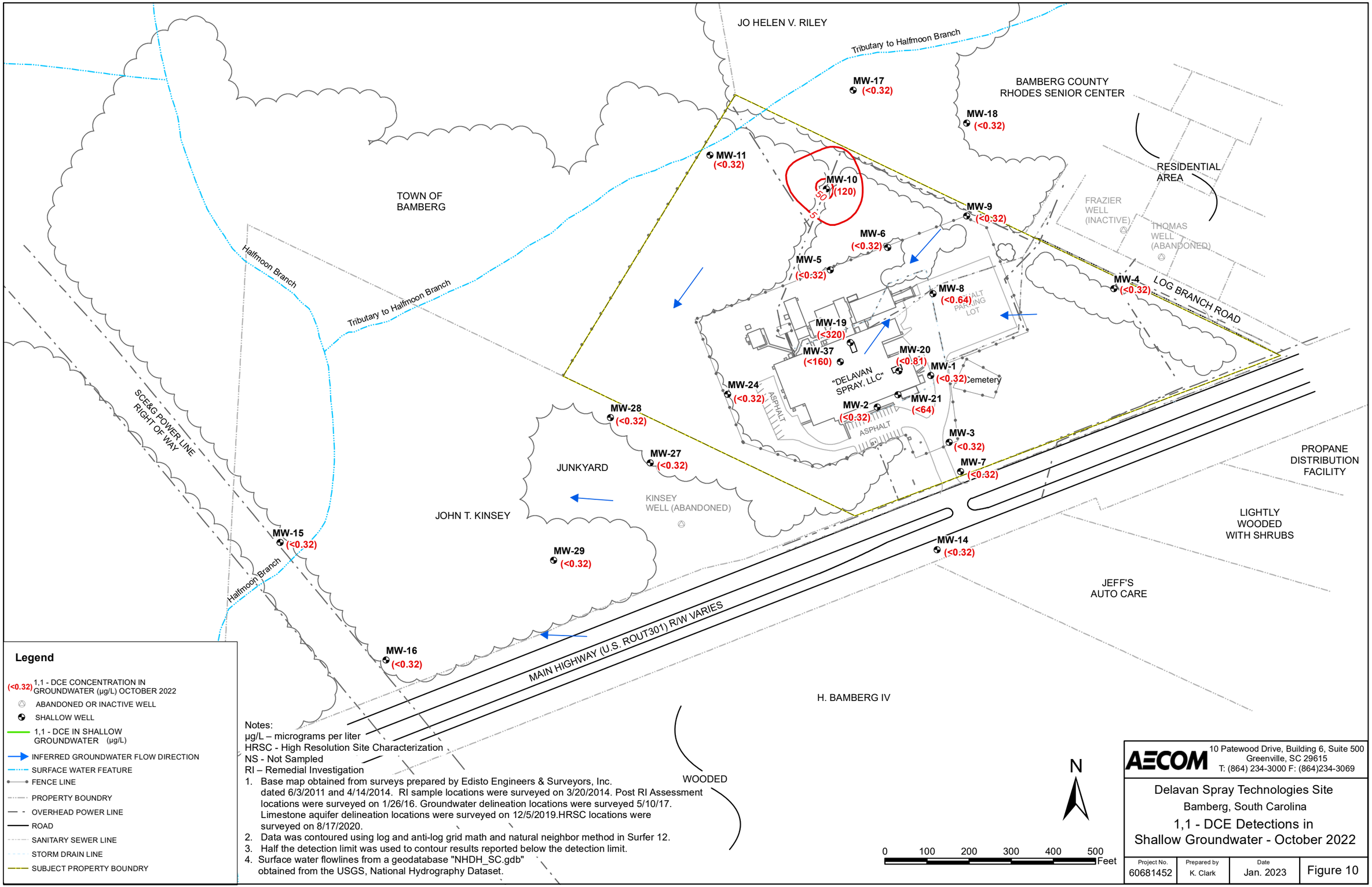
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Greenville, SC 29615
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Delavan Spray Technologies Site
Bamberg, South Carolina

cis-1,2-DCE Detections in Shallow Groundwater - October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 9

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 9 Shallow cis-1,2-DCE.mxd



Legend

- (<0.32) 1,1 - DCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2022
- ABANDONED OR INACTIVE WELL
- SHALLOW WELL
- 1,1 - DCE IN SHALLOW GROUNDWATER (µg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE WATER FEATURE
- FENCE LINE
- PROPERTY BOUNDRY
- OVERHEAD POWER LINE
- ROAD
- SANITARY SEWER LINE
- STORM DRAIN LINE
- SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
NS - Not Sampled
RI – Remedial Investigation

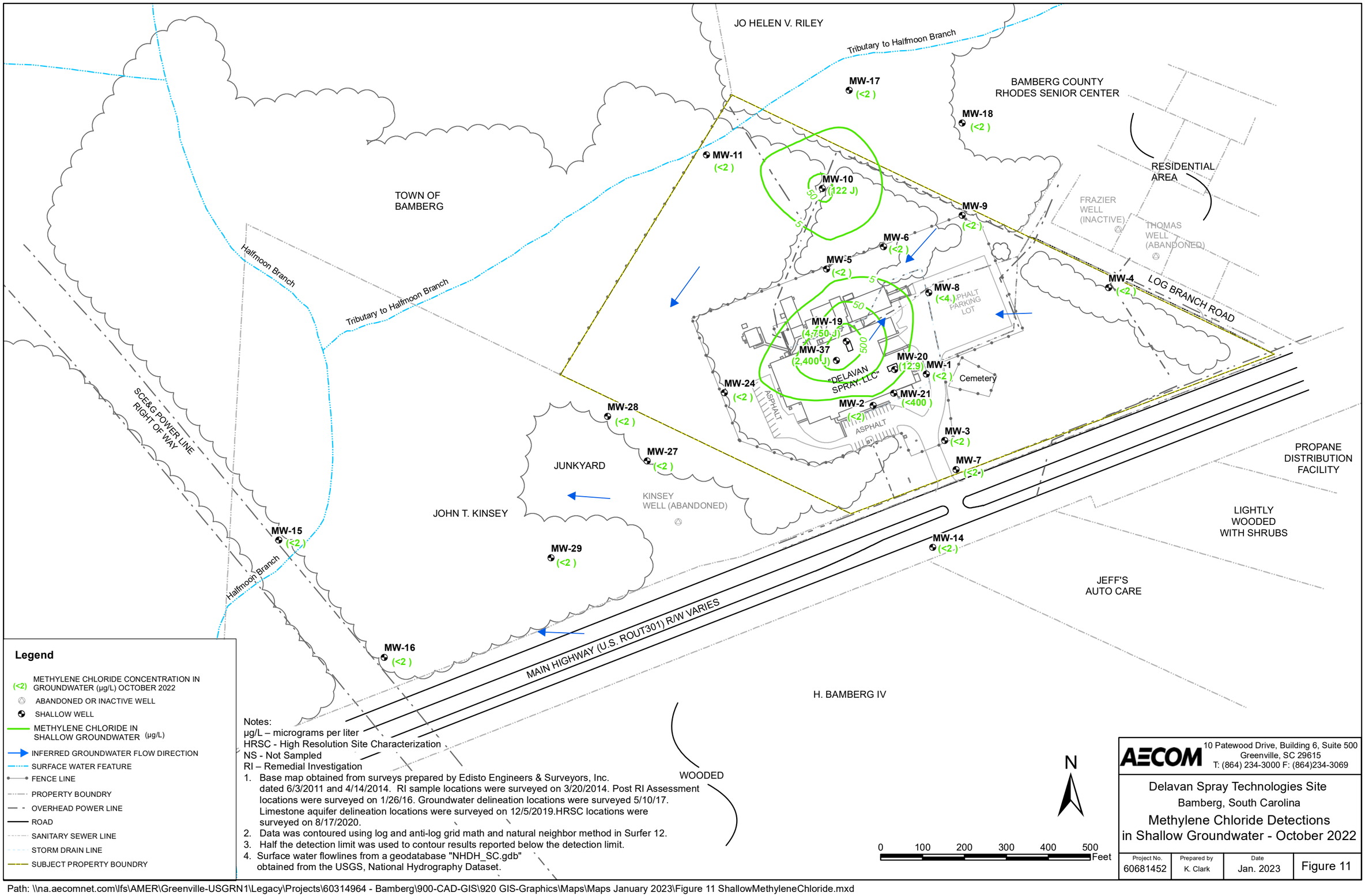
1. Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. RI sample locations were surveyed on 3/20/2014. Post RI Assessment locations were surveyed on 1/26/16. Groundwater delineation locations were surveyed 5/10/17. Limestone aquifer delineation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

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Delavan Spray Technologies Site
Bamberg, South Carolina
1,1 - DCE Detections in Shallow Groundwater - October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 10

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 10 Shallow_11DCE.mxd



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Delavan Spray Technologies Site
Bamberg, South Carolina

Methylene Chloride Detections in Shallow Groundwater - October 2022

Project No.	Prepared by	Date	
60681452	K. Clark	Jan. 2023	Figure 11

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 11 ShallowMethyleneChloride.mxd

JO HELEN V. RILEY

BAMBERG COUNTY
RHODES SENIOR CENTER

MAN MADE
DITCH

RESIDENTIAL
AREA

TOWN OF
BAMBERG

MW-10D
(<0.22)

MW-9D
(<0.22)

FRAZIER
WELL
(INACTIVE)

THOMAS
WELL
(ABANDONED)

Halfmoon Branch

Tributary to Halfmoon Branch

LOG BRANCH ROAD

ASPHALT
PARKING
LOT

"DELAVAN
SPRAY, LLC"

Cemetery

MW-12D
(25.9)

MW-21D
(0.81J)

MW-3D
(282)

MW-3D1
(<0.22)

MW-13D
(86.9)

MW-23D
(<0.22)

PROPANE
DISTRIBUTION
FACILITY

JUNKYARD

KINSEY
WELL (ABANDONED)

LIGHTLY
WOODED
WITH SHRUBS

MW-15D
(<0.22)

MW-15D1
(<0.22)

JOHN T. KINSEY

MW-14D
(68.2)

JEFF'S
AUTO CARE

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

MW-16D
(<0.22)

H. BAMBERG IV

SW-03-HMB
(<0.22)

MW-22D
(92.9)

WOODED

MW-25D
(90.1)

SCE&G POWER LINE
RIGHT OF WAY

MW-31D
(115)

MW-26D
(60.3)

Halfmoon Branch

MW-32D
(ABANDONED)

MW-32DR
(22.2)

MW-33D
(<0.22)

MW-30D
(67.4)

SW-04-TLC
(NS)

Halfmoon Branch

Lemon Creek

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

MW-36D
(<0.22)

MW-35D
(<0.22)

Lemon Creek

MW-34D
(<0.22)

Lemon Creek

SW-01-LC
(2.4)

Legend

(<0.22) PCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2022
ABANDONED OR INACTIVE WELL
SURFACE WATER SAMPLE (APPROXIMATE)
DEEP WELL
PCE IN SHALLOW GROUNDWATER (µg/L)
INFERRED GROUNDWATER FLOW DIRECTION
SURFACE WATER FEATURE
FENCE LINE
PROPERTY BOUNDRY
OVERHEAD POWER LINE
ROAD
SANITARY SEWER LINE
STORM DRAIN LINE
SUBJECT PROPERTY BOUNDRY

Notes:
µg/L – micrograms per liter
HRSC - High Resolution Site Characterization
NS - Not Sampled
RI - Remedial Investigation
PCE – tetrachloroethylene

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

N

0 250 500 750 Feet

AECOM
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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Deeper Groundwater - October 2022

Project No.	Prepared by	Date	
60681452	K.Clark	Jan. 2023	Figure 12

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 12 DeepPCE.mxd

JO HELEN V. RILEY

BAMBERG COUNTY
RHODES SENIOR CENTER

MAN MADE
DITCH

RESIDENTIAL
AREA

TOWN OF
BAMBERG

MW-10D
(<0.35)

MW-9D
(<0.35)

FRAZIER
WELL
(INACTIVE)

THOMAS
WELL
(ABANDONED)

Halfmoon Branch

Tributary to Halfmoon Branch

LOG BRANCH ROAD

ASPHALT
PARKING
LOT

"DELAVAN
SPRAY, LLC"

Cemetery

ASPHALT

MW-12D
(<0.35)

MW-3D1
(<0.35)

MW-21D
(<0.35)

MW-3D
(5.2)

MW-13D
(<0.35)

MW-23D
(<0.35)

PROPANE
DISTRIBUTION
FACILITY

JUNKYARD

KINSEY
WELL (ABANDONED)

LIGHTLY
WOODED
WITH SHRUBS

MW-14D
(<0.35)

MW-15D
(<0.35)

JOHN T. KINSEY

MW-15D1
(<0.35)

JEFF'S
AUTO CARE

MW-16D
(<0.35)

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

H. BAMBERG IV

MW-22D
(<0.39J)

SW-03-HMB
(<0.35)

WOODED

MW-25D
(0.78J)

SCE&G POWER LINE
RIGHT OF WAY

MW-26D
(0.8J)

MW-31D
(<0.35)

Halfmoon Branch

MW-32DR
(<0.35)

MW-32D
(ABANDONED)

MW-33D
(<0.35)

MW-30D
(0.79J)

SW-04-TLC
(NS)

Halfmoon Branch

Lemon Creek

SW-02-LC (2,228 ft upgradient)
(<0.35)

Lemon Creek

MW-36D
(<0.35)

MW-35D
(<0.35)

MW-34D
(<0.35)

Lemon Creek

SW-01-LC
(<0.35)

Legend

(<0.35) TCE CONCENTRATION IN GROUNDWATER (µg/L) OCTOBER 2022
ABANDONED OR INACTIVE WELL
SURFACE WATER SAMPLE (APPROXIMATE)
DEEP WELL
TCE IN SHALLOW GROUNDWATER (µg/L)
INFERRED GROUNDWATER FLOW DIRECTION
SURFACE WATER FEATURE
FENCE LINE
PROPERTY BOUNDRY
OVERHEAD POWER LINE
ROAD
SANITARY SEWER LINE
STORM DRAIN LINE
SUBJECT PROPERTY BOUNDRY

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

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

N

0 250 500 750 Feet

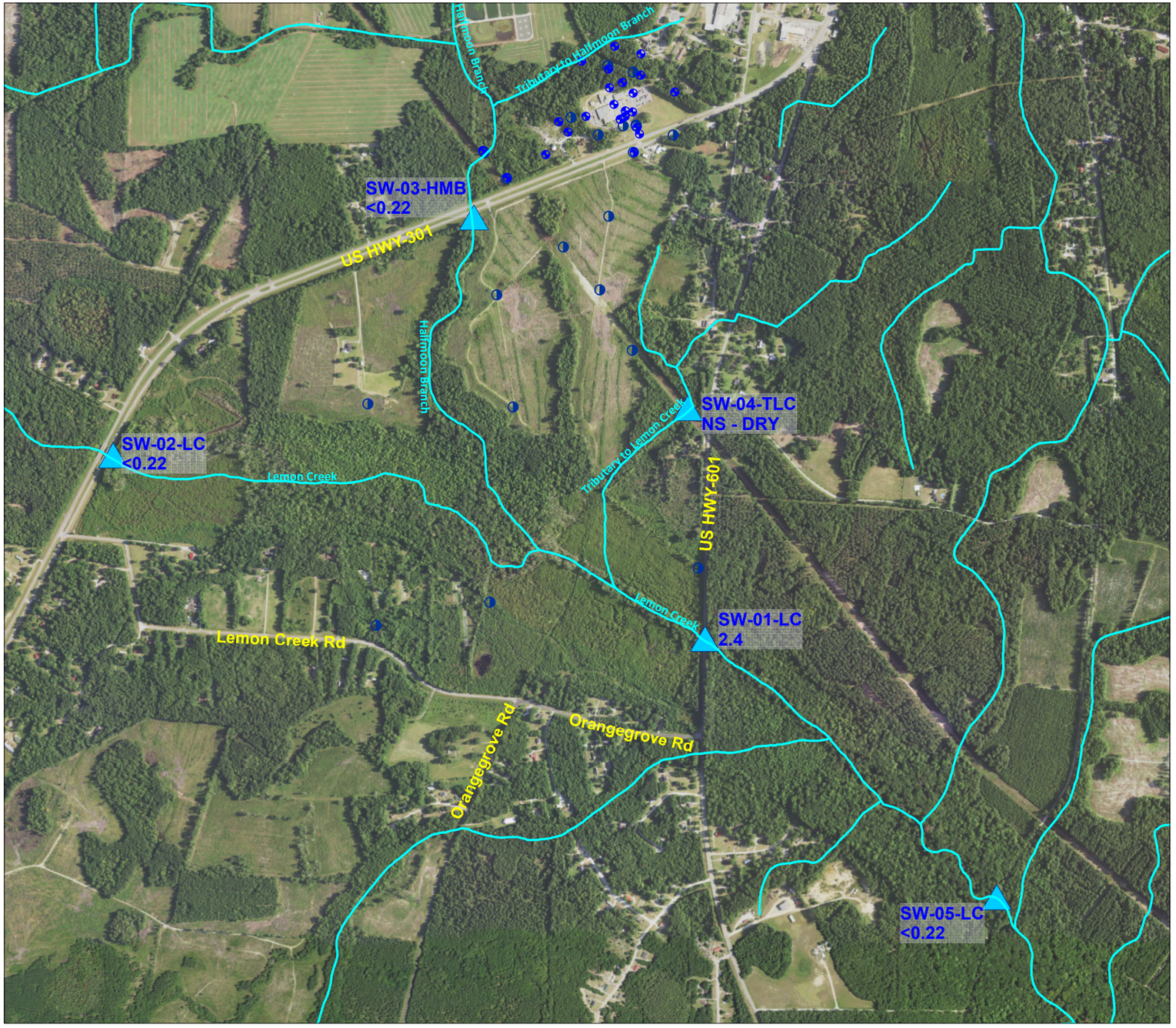
AECOM
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Delavan Spray Technologies Site
Bamberg, South Carolina

TCE Detections in Deeper Groundwater - October 2022

Project No.	Prepared by	Date	
60629985	K. Clark	Jan. 2023	Figure 13

Path: \\na.aecomnet.com\lfs\AMER\Greenville-USGRN1\Legacy\Projects\60314964 - Bamberg\900-CAD-GIS\920 GIS-Graphics\Maps\Maps January 2023\Figure 13 DeepTCE.mxd



LEGEND

- Surface Water Sample Location
- <0.22 PCE Concentration in Surface Water - October 2022
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Surface Water

Notes:
NS - not sampled.
1) Surface water flowlines from a geodatabase "NHDH_SC.gdb" obtained from the USGS, National Hydrography Dataset.
2) Imagery obtained from the USGS, The Nation map orthoimagery https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map.
3) SW-04-TLC could not be sampled in October 2022 because it was dry.

N

0 1200 2400
FEET

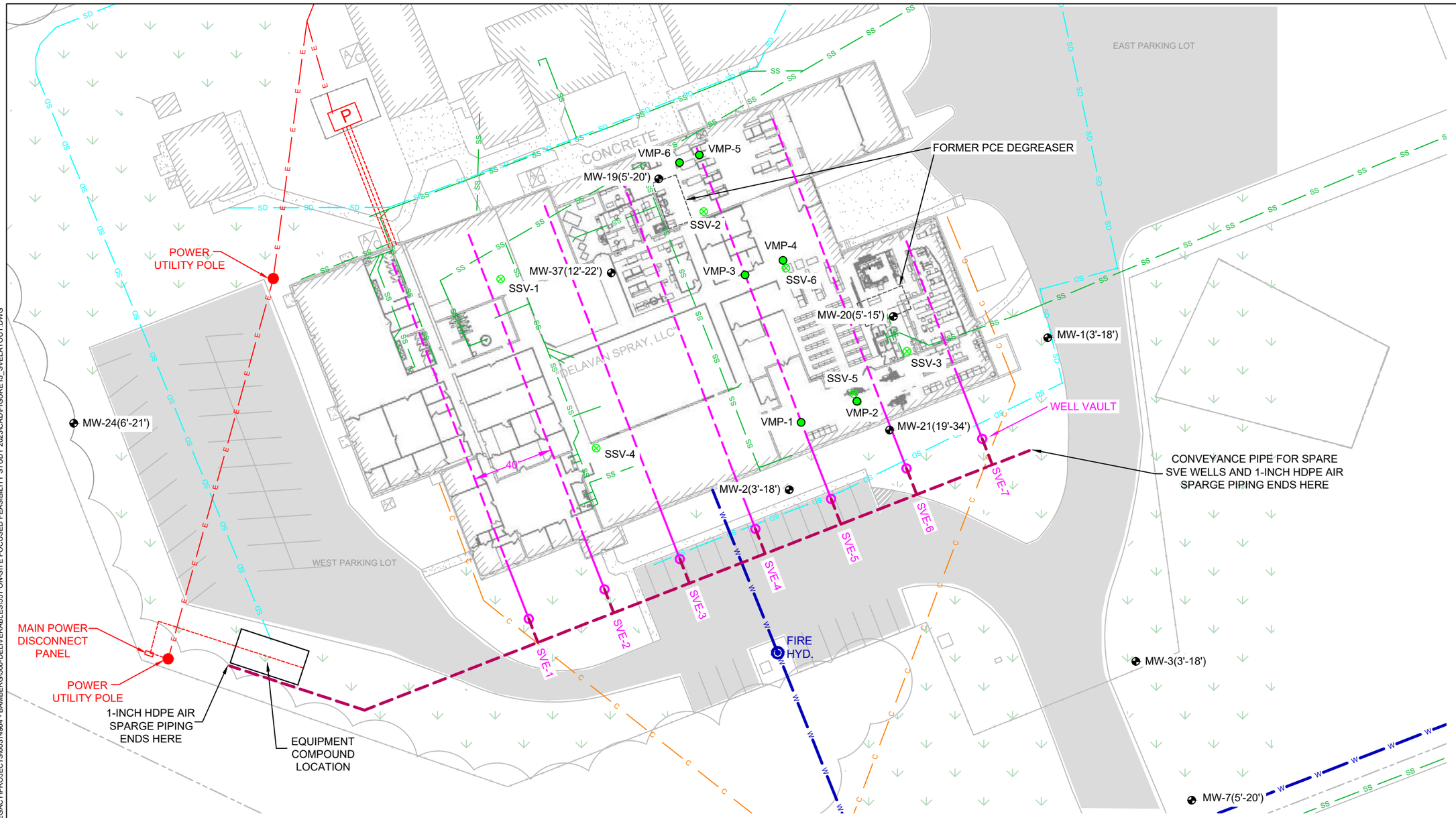
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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Detections in Surface Water October 2022

Project No.	Prepared by	Date	Figure
60656814	L. Alexander	February 2023	Figure 14

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2022 Plume Maps\Oct 2022 SW Locations and results.srf



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
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DATE
FEBRUARY 2023

PROJECT NUMBER
60681452

SHEET TITLE
SVE REMEDIATION SYSTEM LAYOUT

FIGURE NUMBER
15

Project Management Initials: Designer:ID Checked:IR ApprovedJZ

Filename: \\NA.AECOMNET.COM\LFS\AMERIGREENVILLE-USGRN1\LEGACY\PROJECTS\60314964 - BAMBERG\500-DELIVERABLES\551 ON-SITE FOCUSED FEASIBILITY STUDY 2023\CAD\FIGURE 15_SVELAYOUT.DWG

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
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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	
							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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-15	18	--	4-19	Shallow	136.13	135.73	3.37	132.36	4.12	131.61	NM	NM	5.10	130.63
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-32D	60	--	50 - 60	Deeper Limestone	139.14	138.92	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
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
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
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
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
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

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

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	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	ORP (mV)	Turbidity (NTUs)
MW-1	24.0	0.035	3.67	4.87	239.3	193.40
MW-2	23.5	0.028	2.03	5.64	154.10	50.88
MW-3	23.7	0.028	3.59	5.32	176.5	12.61
MW-3D	21.1	0.252	2.06	7.97	68.6	37.52
MW-3D1	20.8	0.213	1.00	7.36	81.6	3.75
MW-4	22.1	0.078	1.19	5.19	102.5	572.50
MW-5	24.3	0.023	4.15	5.01	226.5	916.70
MW-6	22.2	0.024	2.74	4.74	247.6	11.92
MW-7	24.5	0.019	4.40	5.16	219.5	5.77
MW-8	26.2	0.081	2.71	4.65	267.3	8.28
MW-9	22.1	0.033	1.01	5.39	186.4	44.0
MW-9D	20.7	0.163	0.59	7.36	-93.6	2.6
MW-10	20.7	0.058	0.79	5.32	112.3	6.23
MW-10D	20.3	0.240	2.99	7.44	71.10	30.74
MW-11	21.1	0.220	0.90	5.08	187.40	16.48
MW-12D	20.1	0.186	2.06	10.02	99.0	9.59
MW-13D	20.8	0.193	2.94	9.50	133.0	97.52
MW-14	21.3	0.036	4.57	5.60	183.3	29.51
MW-14D	20.1	0.162	2.27	10.55	71.2	50.25
MW-15	21.1	0.498	1.15	5.41	71.2	30.57
MW-15D	20.8	0.303	2.08	7.14	86.3	40.81
MW-15D1	20.1	0.163	0.82	7.04	14.2	440.20
MW-16	20.6	0.042	1.10	5.42	116.0	31.49
MW-16D	20.7	0.299	2.02	7.32	-58.4	3.48
MW-17	20.2	0.085	3.10	4.69	256.9	29.35
MW-18	21.2	0.045	1.86	4.63	259.9	3.00
MW-19	17.2	0.110	2.05	4.75	284.5	0.00
MW-20	NM	NM	NM	NM	NM	1.88
MW-21	21.1	0.024	0.89	5.08	21.5	3.47
MW-21D	21.1	0.254	1.41	9.50	107.8	2.84
MW-22D	19.8	0.274	2.02	7.50	160.5	59.23
MW-23D	20.0	0.310	1.76	7.35	166.4	20.35
MW-24	22.3	0.021	4.26	4.85	228.9	6.33
MW-25D	21.2	0.268	1.82	7.29	135.6	38.31
MW-26D	20.4	0.281	2.88	7.41	142.0	87.72
MW-27	21.5	0.041	4.63	7.02	196.3	14.64
MW-28	22.10	0.091	2.40	6.33	184.6	3.07
MW-29	21.90	0.049	2.08	5.45	186.6	5.95
MW-30D	17.90	0.281	2.81	7.70	184.7	321.20
MW-31D	18.7	0.276	3.41	7.45	193.3	18.84
MW-32DR	19.3	0.22	2.56	7.38	122.1	29.53
MW-33D	18.5	0.25	1.81	7.88	116.6	3.35
MW-34D	18.2	0.099	1.41	10.52	-105.8	80.07
MW-35D	20.2	0.243	2.45	8.03	59.7	2.99
MW-36D	17.9	0.296	0.68	7.53	-131	159.20
MW-37	17.20	0.022	3.33	4.88	235.4	2.90

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
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID		MW-1	MW-2	MW-3	MW-3D	MW-3D1	MW-4
Lab Sample ID	USEPA	FC97-7	FC97-2	FC97-6	FC97-5	FC97-4	FC97-15
Date Collected	MCL	10/26/22	10/26/22	10/26/22	10/26/22	10/26/22	10/26/22
Volatile Organic Compounds by Method 8260B (µg/L)							
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25 //h	< 1.2	< 0.25	< 0.25
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32 //h	**4.7 J//**	< 0.32	< 0.32
cis-1,2-Dichloroethylene	70	**3**	< 0.28	< 0.28 //h	**8.7**	< 0.28	< 0.28
Methylene Chloride	5	< 2	< 2	< 2 //h	< 10	< 2	< 2
Tetrachloroethylene	5	**58**	< 0.22	**58.9 //h**	**282**	< 0.22	< 0.22
Toluene	1000	< 0.3	< 0.59 J/B/T	< 0.3 //h	< 1.5	< 0.3	< 0.3
Trichloroethylene	5	**2**	< 0.35	**1.6 //h**	**5.2**	< 0.35	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41 //h	< 2	< 0.41	< 0.41

Sample ID		MW-5	MW-6	MW-7	MW-8	MW-9	MW-9D
Lab Sample ID	USEPA	FC97-11	FC97-10	FC97-14	FC97-8	FC97-20	FC97-19
Date Collected	MCL	10/26/22	10/26/22	10/26/22	10/26/22	10/26/22	10/26/22
Volatile Organic Compounds by Method 8260B (µg/L)							
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25 //h	< 0.5 //h	< 0.25 //h	< 0.25
1,1-Dichloroethylene	7	< 0.32	< 0.32	< 0.32 //h	< 0.64 //h	< 0.32 //h	< 0.32
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28 //h	**14.5 //h**	**4.8 //h**	< 0.28
Methylene Chloride	5	< 2	< 2	< 2 //h	< 4 //h	< 2 //h	< 2
Tetrachloroethylene	5	< 0.22	< 0.22	< 0.22 //h	**535 //h**	**74.3 //h**	< 0.22
Toluene	1000	< 0.3	< 0.3	< 0.3 //h	< 0.6 //h	< 0.3 //h	< 0.59 J/B/T
Trichloroethylene	5	< 0.35	< 0.35	< 0.35 //h	**87.3 //h**	**28.8 //h**	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41 //h	< 0.82 //h	< 0.41 //h	< 0.41

Sample ID		MW-10	MW-10D	MW-11	MW-12D	MW-13D	MW-14
Lab Sample ID	USEPA	FC97-18	FC97-17	FC97-16	FC146-2	FC146-1	FC146-20
Date Collected	MCL	10/26/22	10/26/22	10/26/22	10/26/22	10/26/22	10/27/22
Volatile Organic Compounds by Method 8260B (µg/L)							
1,1,1-Trichloroethane	200	< 12	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	**120**	< 0.32	< 0.32	< 0.32	**1.8**	< 0.32
cis-1,2-Dichloroethylene	70	**2830**	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Methylene Chloride	5	**122 J//**	< 2	< 2	< 2	< 2	< 2
Tetrachloroethylene	5	**181**	< 0.22	< 0.22	**25.9**	**86.9**	< 0.22
Toluene	1000	< 15	< 0.73 J/B/T	< 0.34 J/B/T	< 0.4 J/B/T	< 0.3	< 0.3
Trichloroethylene	5	**131**	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	2	< 20	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41

Sample ID		MW-14D	MW-15	MW-15D	MW-15D1	MW-16	MW-16D
Lab Sample ID	USEPA	FC146-18	FC146-8	FC146-7	FC146-6	FC146-10	FC146-9
Date Collected	MCL	10/27/22	10/26/22	10/26/22	10/26/22	10/26/22	10/26/22
Volatile Organic Compounds by Method 8260B (µg/L)							
1,1,1-Trichloroethane	200	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethylene	7	**0.93 J//**	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
cis-1,2-Dichloroethylene	70	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Methylene Chloride	5	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethylene	5	**68.2**	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Toluene	1000	< 0.3	< 0.9 J/B/T	< 0.8 J/B/T	< 0.66 J/B/T	< 0.3	< 1.1 /B/T
Trichloroethylene	5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	2	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41

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

Sample ID		MW-17		MW-18		MW-19		MW-20		MW-21		MW-21D	
Lab Sample ID	USEPA	FC97-22		FC97-21		FC611-2		FC611-3		FC97-3		FC97-1	
Date Collected	MCL	10/26/22		10/26/22		11/15/22		11/15/22		10/26/22		10/26/22	
Volatile Organic Compounds by Method 8260B (µg/L)													
1,1,1-Trichloroethane	200	< 0.25	//h	< 0.25		< 250		< 0.62		< 50		< 0.25	
1,1-Dichloroethylene	7	< 0.32	//h	< 0.32		< 320		< 0.81		< 64		< 0.32	
cis-1,2-Dichloroethylene	70	< 0.28	//h	< 0.28		< 280		< 0.69		**666**		< 0.28	
Methylene Chloride	5	< 2	//h	< 2		**4750**	**J//**	**12.9**	**J//**	< 400		< 2	
Tetrachloroethylene	5	< 0.22	//h	< 0.22		**18900**		< 0.54		**8320**		**0.81**	**J//**
Toluene	1000	< 1.7	/B/Th	< 0.89	J/B/T	< 300		< 0.75		< 60		< 0.71	J/B/T
Trichloroethylene	5	< 0.35	//h	< 0.35		< 350		< 0.86		**254**		< 0.35	
Vinyl Chloride	2	< 0.41	//h	< 0.41		< 410		< 1		< 82		< 0.41	

Sample ID		MW-22D		MW-23D		MW-24		MW-25D		MW-26D		MW-27	
Lab Sample ID	USEPA	FC146-13		FC146-21		FC97-12		FC146-16		FC146-15		FC146-3	
Date Collected	MCL	10/27/22		10/27/22		10/26/22		10/27/22		10/27/22		10/26/22	
Volatile Organic Compounds by Method 8260B (µg/L)													
1,1,1-Trichloroethane	200	< 0.25		< 0.25		< 0.25	//h	< 0.25		< 0.25		< 0.25	
1,1-Dichloroethylene	7	**1.4**		< 0.32		< 0.32	//h	**2**		**0.7**	**J//**	< 0.32	
cis-1,2-Dichloroethylene	70	< 0.28		< 0.28		**9.1**	**//h**	**0.87**	**J//**	**0.68**	**J//**	< 0.28	
Methylene Chloride	5	< 2		< 2		< 2	//h	< 2		< 2		< 2	
Tetrachloroethylene	5	**92.9**		< 0.22		**1170**	**//h**	**90.1**		**60.3**		< 0.22	
Toluene	1000	< 0.3		< 0.3		< 0.3	//h	< 0.3		< 0.3		< 0.83	J/B/T
Trichloroethylene	5	**0.39**	**J//**	< 0.35		**2.8**	**//h**	**0.78**	**J//**	**0.8**	**J//**	< 0.35	
Vinyl Chloride	2	< 0.41		< 0.41		< 0.41	//h	< 0.41		< 0.41		< 0.41	

Sample ID		MW-28		MW-29		MW-30D		MW-31D		MW-32DR		MW-33D	
Lab Sample ID	USEPA	FC146-4		FC146-5		FC146-12		FC146-11		FC146-17		FC146-25	
Date Collected	MCL	10/26/22		10/26/22		10/27/22		10/27/22		10/27/22		10/27/22	
Volatile Organic Compounds by Method 8260B (µg/L)													
1,1,1-Trichloroethane	200	< 0.25		< 0.25		< 0.25		< 0.25		< 0.25		< 0.25	
1,1-Dichloroethylene	7	< 0.32		< 0.32		**0.82**	**J//**	**2.1**		< 0.32		< 0.32	
cis-1,2-Dichloroethylene	70	< 0.28		< 0.28		**0.6**	**J//**	< 0.28		< 0.28		< 0.28	
Methylene Chloride	5	< 2		< 2		< 2		< 2		< 2		< 2	
Tetrachloroethylene	5	< 0.22		< 0.22		**67.4**	**/M/M**	**115**		**22.2**		< 0.22	
Toluene	1000	< 0.69	J/B/T	< 0.3		< 0.3		< 0.3		< 0.3		< 0.3	
Trichloroethylene	5	< 0.35		< 0.35		**0.79**	**J//**	< 0.35		< 0.35		< 0.35	
Vinyl Chloride	2	< 0.41		< 0.41		< 0.41		< 0.41		< 0.41		< 0.41	

Sample ID		MW-34D		MW-35D		MW-36D		MW-37	
Lab Sample ID	USEPA	FC146-23		FC146-24		FC146-22		FC611-1	
Date Collected	MCL	10/27/22		10/27/22		10/27/22		11/15/22	
Volatile Organic Compounds by Method 8260B (µg/L)									
1,1,1-Trichloroethane	200	< 0.25		< 0.25		< 0.25		< 120	
1,1-Dichloroethylene	7	< 0.32		< 0.32		< 0.32		< 160	
cis-1,2-Dichloroethylene	70	< 0.28		< 0.28		< 0.28		< 140	
Methylene Chloride	5	< 2		< 2		< 2		**2400**	**J//**
Tetrachloroethylene	5	< 0.22		< 0.22		< 0.22		**16500**	
Toluene	1000	< 0.3		< 0.3		< 0.3		< 150	
Trichloroethylene	5	< 0.35		< 0.35		< 0.35		< 170	
Vinyl Chloride	2	< 0.41		< 0.41		< 0.41		< 200	

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

Notes:
µg/L - micrograms per liter (parts per billion)
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (March, 2018).
[1] 1998 Final Rule for Disinfectants and Disinfection By-products. The total for trihalomethanes (THM) is 80 ug/L.
— - Indicates No Standard (for screening criteria).
Bold font and shading indicate the concentration is detected.
Bold outline indicates the concentration exceeds the MCL.
South Carolina Department of Health and Environmental Control (SCDHEC) R.61-68 Water Classifications and Standards (June 27, 2014) were also identified for the list of detected chemicals in groundwater. In each case, however, they were the same values as the USEPA MCLs.
See Table 8 for explanation of data qualifiers.

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

Sample ID **Lab Sample ID** **Date Collected**	USEPA MCL	SCDHEC WCS	SW-01-LC FC97-25 10/25/22	SW-02-LC FC97-26 10/25/22	SW-03-HMB FC97-27 10/25/22	SW-05-LC FC97-24 10/25/22
Volatile Organic Compounds by Method 8260 (µg/L)						
Chloroform	80 [1]	470	< 0.3	< 0.3	**0.64 J//**	< 0.3
Tetrachloroethylene	5	3.3	**2.4**	< 0.22	< 0.22	< 0.22
Toluene	1000	15000	< 0.37 J/B/T	< 0.3	< 0.3	< 0.3

Notes:
µg/L - micrograms per liter (parts per billion)
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (March 2018).
[1] 1998 Final Rule for Disinfectants and Disinfection By-products. The total for trihalomethanes (THM) is 80 ug/L.
— - Indicates No Standard (for screening criteria).
Bold font and shading indicate the concentration is detected.
SCDEC WCS - South Carolina Department of Health and Environmental Control R.61-68 Water Classifications and Standards for Consumption of Organism Only (June 2014)
See Table 8 for explanation of data qualifiers.

Table 6
Summary of Analytical Results in Investigation-Derived Waste Sample
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID	USEPA	IDW-1	
Lab Sample ID	Toxicity	FC146-27	
Date Collected	Characteristic	10/27/22	
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	700	<	0.32
1,2-Dichloroethane	500	<	0.31
1,2-Dichloropropane	—	<	0.43
2-Butanone (MEK)	200,000	<	2
2-Hexanone	—	<	2
4-Methyl-2-pentanone (MIBK)	—	<	1
Acetone	—	<	10
Benzene	500	<	0.31
Bromodichloromethane	—	<	0.24
Bromoform	—	<	0.41
Carbon Disulfide	—	<	0.53
Carbon Tetrachloride	500	<	0.36
Chlorobenzene	100,000	<	0.2
Chloroethane	—	<	0.67
Chloroform	6,000	<	0.3
cis-1,2-Dichloroethylene	—		**5.2**
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	700		**5.5**
Toluene	—	<	0.3
trans-1,2-Dichloroethylene	—	<	0.22
trans-1,3-Dichloropropene	—	<	0.21
Trichloroethylene	500	<	0.35
Vinyl Chloride	200	<	0.41
Xylene (total)	—	<	0.72
Semivolatile Organic Compounds by 8270E (µg/L)			
1,2,4-Trichlorobenzene	—	<	1
1,2-Dichlorobenzene	—	<	0.49
1,3-Dichlorobenzene	—	<	0.49
1,4-Dichlorobenzene	7,500	<	0.49
2,2'-Oxybis(1-chloropropane)	—	<	0.74
2,4,5-Trichlorophenol	400,000	<	0.73
2,4,6-Trichlorophenol	2,000	<	0.74
2,4-Dichlorophenol	—	<	0.82
2,4-Dimethylphenol	—	<	0.72
2,4-Dinitrophenol	—	<	4.9
2,4-Dinitrotoluene	130	<	0.8
2,6-Dinitrotoluene	—	<	0.7
2-Chloronaphthalene	—	<	0.49
2-Chlorophenol	—	<	0.62
2-Methylnaphthalene	—	<	0.59
2-Methylphenol	200,000	<	0.55
2-Nitroaniline	—	<	1.8
2-Nitrophenol	—	<	0.84
3&4-Methylphenol	200,000	<	0.96
3,3'-Dichlorobenzidine	—	<	0.63
3-Nitroaniline	—	<	0.86
4,6-Dinitro-o-cresol	—	<	2
4-Bromophenyl Phenyl Ether	—	<	0.83
4-Chloro-3-methyl Phenol	—	<	0.58
4-Chloroaniline	—	<	0.62
4-Chlorophenyl Phenyl Ether	—	<	0.53

Table 6
Summary of Analytical Results in Investigation-Derived Waste Sample
Delavan Spray Technologies Site
Bamberg, South Carolina

Sample ID	USEPA	IDW-1		
Lab Sample ID	Toxicity	FC146-27		
Date Collected	Characteristic	10/27/22		
Volatile Organic Compounds by 8260D (µg/L)				
Semivolatile Organic Compounds by 8270E (µg/L)				
4-Nitroaniline	—	<	1.1	
4-Nitrophenol	—	<	4.9	
Acenaphthene	—	<	0.61	
Acenaphthylene	—	<	0.63	
Anthracene	—	<	0.78	
Benzo(a)anthracene	—	<	0.75	
Benzo(a)pyrene	—	<	0.77	
Benzo(b)fluoranthene	—	<	0.76	
Benzo(g,h,i)perylene	—	<	0.81	
Benzo(k)fluoranthene	—	<	0.84	
Benzoic Acid	—	<	9.8	
Benzyl Alcohol	—	<	0.6	
bis(2-Chloroethoxy)methane	—	<	0.79	
bis(2-Chloroethyl)ether	—	<	0.72	
bis(2-Ethylhexyl)phthalate	—	<	0.98	
Butyl Benzyl Phthalate	—	<	0.98	
Carbazole	—	<	0.59	
Chrysene	—	<	0.83	
Di-n-butyl Phthalate	—	<	0.98	
Di-n-octyl Phthalate	—	<	0.98	
Dibenzo(a,h)anthracene	—	<	0.79	
Dibenzofuran	—	<	0.59	
Diethyl Phthalate	—	<	0.98	
Dimethyl Phthalate	—	<	0.98	
Fluoranthene	—	<	0.54	
Fluorene	—	<	0.69	
Hexachlorobenzene	130	<	0.68	
Hexachlorobutadiene	500	<	0.49	
Hexachlorocyclopentadiene	—	<	1.8	
Hexachloroethane	3,000	<	1.6	
Indeno(1,2,3-cd)pyrene	—	<	0.7	
Isophorone	—	<	0.76	
N-Nitrosodi-n-propylamine	—	<	0.66	
N-Nitrosodiphenylamine	—	<	0.79	
Naphthalene	—	<	0.49	
Nitrobenzene	2,000	<	0.91	
Pentachlorophenol	100,000	<	4.9	
Phenanthrene	—	<	0.85	
Phenol	—	<	0.49	
Pyrene	—	<	0.67	
Metals by 6010D (µg/L)				
Antimony	—	<	1	
Arsenic	5,000	<	1.3	
Beryllium	—	<	0.2	
Cadmium	1,000	<	0.2	
Chromium	5,000		**3.7**	**J//**
Copper	—		**4.8**	**J//**
Lead	5,000	<	1.1	
Nickel	—		**21**	**J//**
Selenium	1,000	<	2.9	
Silver	5,000		**1.3**	**J//**
Thallium	—	<	1.4	
Zinc	—		**33.5**	
Mercury by 7470A (µg/L)				
Mercury	200	<	0.03	

Notes:
— - No Standard
IDW - Investigation Derived Waste
µg/L - micrograms per liter (parts per billion)
USEPA Toxicity Characteristic - United States Environmental Protection Agency Maximum Concentration of Contaminants for the Toxicity Characteristic (40CFR§261.24 Toxicity Characteristic, July 1, 2007)
Bold font and shading indicates the analyte was detected
See Table 8 for explanation of data qualifiers.

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

Field Duplicates

Sample ID	MW-8		MW-8-A		Relative	MW-14D		MW-14D-A		Relative
Lab Sample ID	FC97-8		FC97-9		Percent	FC146-18		FC146-19		Percent
Date Collected	10/26/22		10/26/22		Difference	10/27/22		10/27/22		Difference
Volatile Organic Compounds by 8260D (µg/L)										
1,1,1-Trichloroethane	< 0.5	//h	< 0.5	//h	NC	< 0.25		< 0.25		NC
1,1,2,2-Tetrachloroethane	< 0.6	//h	< 0.6	//h	NC	< 0.3		< 0.3		NC
1,1,2-Trichloroethane	< 0.93	//h	< 0.93	//h	NC	< 0.47		< 0.47		NC
1,1-Dichloroethane	< 0.68	//h	< 0.68	//h	NC	< 0.34		< 0.34		NC
1,1-Dichloroethylene	< 0.64	//h	< 0.64	//h	NC	**0.93**	**J//**	< 0.32		NC
1,2-Dichloroethane	< 0.62	//h	< 0.62	//h	NC	< 0.31		< 0.31		NC
1,2-Dichloropropane	< 0.85	//h	< 0.85	//h	NC	< 0.43		< 0.43		NC
2-Butanone (MEK)	< 4	//h	< 4	//h	NC	< 2		< 2		NC
2-Hexanone	< 4	//h	< 4	//h	NC	< 2		< 2		NC
4-Methyl-2-pentanone (MIBK	< 2	//h	< 2	//h	NC	< 1		< 1		NC
Acetone	< 20	//h	< 20	//h	NC	< 10		< 10		NC
Benzene	< 0.62	//h	< 0.62	//h	NC	< 0.31		< 0.31		NC
Bromodichloromethane	< 0.48	//h	< 0.48	//h	NC	< 0.24		< 0.24		NC
Bromoform	< 0.81	//h	< 0.81	//h	NC	< 0.41		< 0.41		NC
Carbon Disulfide	< 1.1	//h	< 1.1	//h	NC	< 0.53		< 0.53		NC
Carbon Tetrachloride	< 0.71	//h	< 0.71	//h	NC	< 0.36		< 0.36		NC
Chlorobenzene	< 0.4	//h	< 0.4	//h	NC	< 0.2		< 0.2		NC
Chloroethane	< 1.3	//h	< 1.3	//h	NC	< 0.67		< 0.67		NC
Chloroform	< 0.6	//h	< 0.6	//h	NC	< 0.3		< 0.3		NC
cis-1,2-Dichloroethylene	**14.5**	**//h**	**15.2**	**//h**	**4.7**	< 0.28		< 0.28		NC
cis-1,3-Dichloropropene	< 0.58	//h	< 0.58	//h	NC	< 0.29		< 0.29		NC
Dibromochloromethane	< 0.55	//h	< 0.55	//h	NC	< 0.28		< 0.28		NC
Ethylbenzene	< 0.71	//h	< 0.71	//h	NC	< 0.36		< 0.36		NC
Methyl Bromide	< 4	//h	< 4	//h	NC	< 2		< 2		NC
Methyl Chloride	< 1	//h	< 1	//h	NC	< 0.5		< 0.5		NC
Methylene Chloride	< 4	//h	< 4	//h	NC	< 2		< 2		NC
Styrene	< 0.44	//h	< 0.44	//h	NC	< 0.22		< 0.22		NC
Tetrachloroethylene	**535**	**//h**	**537**	**//h**	**0.4**	**68.2**		**53.4**		**24.3**
Toluene	< 0.6	//h	< 0.6	//h	NC	< 0.3		< 0.3		NC
trans-1,2-Dichloroethylene	< 0.44	//h	< 0.44	//h	NC	< 0.22		< 0.22		NC
trans-1,3-Dichloropropene	< 0.43	//h	< 0.43	//h	NC	< 0.21		< 0.21		NC
Trichloroethylene	**87.3**	**//h**	**94**	**//h**	**7.4**	< 0.35		< 0.35		NC
Vinyl Chloride	< 0.82	//h	< 0.82	//h	NC	< 0.41		< 0.41		NC
Xylene (total)	< 1.4	//h	< 1.4	//h	NC	< 0.72		< 0.72		NC

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

Field Duplicates

Sample ID	MW-22D	MW-22D-A	Relative	MW-24	MW-24-A	Relative
Lab Sample ID	FC146-13	FC146-14	Percent	FC97-12	FC97-13	Percent
Date Collected	10/27/22	10/27/22	Difference	10/26/22	10/26/22	Difference
Volatile Organic Compounds by 8260D (µg/L)						
1,1,1-Trichloroethane	< 0.25	< 0.25	NC	< 0.25 //h	< 0.25 //h	NC
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	NC	< 0.3 //h	< 0.3 //h	NC
1,1,2-Trichloroethane	< 0.47	< 0.47	NC	< 0.47 //h	< 0.47 //h	NC
1,1-Dichloroethane	< 0.34	< 0.34	NC	< 0.34 //h	< 0.34 //h	NC
1,1-Dichloroethylene	**1.4**	**0.68 J//**	NC	< 0.32 //h	< 0.32 //h	NC
1,2-Dichloroethane	< 0.31	< 0.31	NC	< 0.31 //h	< 0.31 //h	NC
1,2-Dichloropropane	< 0.43	< 0.43	NC	< 0.43 //h	< 0.43 //h	NC
2-Butanone (MEK)	< 2	< 2	NC	< 2 //h	< 2 //h	NC
2-Hexanone	< 2	< 2	NC	< 2 //h	< 2 //h	NC
4-Methyl-2-pentanone (MIBK	< 1	< 1	NC	< 1 //h	< 1 //h	NC
Acetone	< 10	< 10	NC	< 10 //h	< 10 //h	NC
Benzene	< 0.31	< 0.31	NC	< 0.31 //h	< 0.31 //h	NC
Bromodichloromethane	< 0.24	< 0.24	NC	< 0.24 //h	< 0.24 //h	NC
Bromoform	< 0.41	< 0.41	NC	< 0.41 //h	< 0.41 //h	NC
Carbon Disulfide	< 0.53	< 0.53	NC	< 0.53 //h	< 0.53 //h	NC
Carbon Tetrachloride	< 0.36	< 0.36	NC	< 0.36 //h	< 0.36 //h	NC
Chlorobenzene	< 0.2	< 0.2	NC	< 0.2 //h	< 0.2 //h	NC
Chloroethane	< 0.67	< 0.67	NC	< 0.67 //h	< 0.67 //h	NC
Chloroform	< 0.3	< 0.3	NC	< 0.3 //h	< 0.3 //h	NC
cis-1,2-Dichloroethylene	< 0.28	< 0.28	NC	**9.1 //h**	**9.4 //h**	**3.2**
cis-1,3-Dichloropropene	< 0.29	< 0.29	NC	< 0.29 //h	< 0.29 //h	NC
Dibromochloromethane	< 0.28	< 0.28	NC	< 0.28 //h	< 0.28 //h	NC
Ethylbenzene	< 0.36	< 0.36	NC	< 0.36 //h	< 0.36 //h	NC
Methyl Bromide	< 2	< 2	NC	< 2 //h	< 2 //h	NC
Methyl Chloride	< 0.5	< 0.5	NC	< 0.5 //h	< 0.5 //h	NC
Methylene Chloride	< 2	< 2	NC	< 2 //h	< 2 //h	NC
Styrene	< 0.22	< 0.22	NC	< 0.22 //h	< 0.22 //h	NC
Tetrachloroethylene	**92.9**	**75.6**	**20.5**	**1170 //h**	**1200 //h**	**2.5**
Toluene	< 0.3	< 0.3	NC	< 0.3 //h	< 0.3 //h	NC
trans-1,2-Dichloroethylene	< 0.22	< 0.22	NC	< 0.22 //h	< 0.22 //h	NC
trans-1,3-Dichloropropene	< 0.21	< 0.21	NC	< 0.21 //h	< 0.21 //h	NC
Trichloroethylene	**0.39 J//**	< 0.35	NC	**2.8 //h**	**2.9 //h**	**3.5**
Vinyl Chloride	< 0.41	< 0.41	NC	< 0.41 //h	< 0.41 //h	NC
Xylene (total)	< 0.72	< 0.72	NC	< 0.72 //h	< 0.72 //h	NC

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

Field Duplicates

Sample ID	MW-32DR		MW-32DR-A		Relative
Lab Sample ID	FC146-17		FC146-28		Percent
Date Collected	10/27/22		10/27/22		Difference
Volatile Organic Compounds by 8260D (µg/L)					
1,1,1-Trichloroethane	<	0.25	<	0.25	NC
1,1,2,2-Tetrachloroethane	<	0.3	<	0.3	NC
1,1,2-Trichloroethane	<	0.47	<	0.47	NC
1,1-Dichloroethane	<	0.34	<	0.34	NC
1,1-Dichloroethylene	<	0.32	<	0.32	NC
1,2-Dichloroethane	<	0.31	<	0.31	NC
1,2-Dichloropropane	<	0.43	<	0.43	NC
2-Butanone (MEK)	<	2	<	2	NC
2-Hexanone	<	2	<	2	NC
4-Methyl-2-pentanone (MIBK	<	1	<	1	NC
Acetone	<	10	<	10	NC
Benzene	<	0.31	<	0.31	NC
Bromodichloromethane	<	0.24	<	0.24	NC
Bromoform	<	0.41	<	0.41	NC
Carbon Disulfide	<	0.53	<	0.53	NC
Carbon Tetrachloride	<	0.36	<	0.36	NC
Chlorobenzene	<	0.2	<	0.2	NC
Chloroethane	<	0.67	<	0.67	NC
Chloroform	<	0.3	<	0.3	NC
cis-1,2-Dichloroethylene	<	0.28	<	0.28	NC
cis-1,3-Dichloropropene	<	0.29	<	0.29	NC
Dibromochloromethane	<	0.28	<	0.28	NC
Ethylbenzene	<	0.36	<	0.36	NC
Methyl Bromide	<	2	<	2	NC
Methyl Chloride	<	0.5	<	0.5	NC
Methylene Chloride	<	2	<	2	NC
Styrene	<	0.22	<	0.22	NC
Tetrachloroethylene		**22.2**		**25.7**	**14.6**
Toluene	<	0.3	<	0.3	NC
trans-1,2-Dichloroethylene	<	0.22	<	0.22	NC
trans-1,3-Dichloropropene	<	0.21	<	0.21	NC
Trichloroethylene	<	0.35	<	0.35	NC
Vinyl Chloride	<	0.41	<	0.41	NC
Xylene (total)	<	0.72	<	0.72	NC

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

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

Trip Blanks

Sample ID	TRIP BLANK	TRIP BLANK	TRIP BLANK
Lab Sample ID	FC97-23	FC146-26	FC611-4
Date Collected	10/25/22	10/27/22	11/15/22
Volatile Organic Compounds by 8260D (µg/L)			
1,1,1-Trichloroethane	< 0.25	< 0.25	< 0.25
1,1,2,2-Tetrachloroethane	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	< 0.47	< 0.47	< 0.47
1,1-Dichloroethane	< 0.34	< 0.34	< 0.34
1,1-Dichloroethylene	< 0.32	< 0.32	< 0.32
1,2-Dichloroethane	< 0.31	< 0.31	< 0.31
1,2-Dichloropropane	< 0.43	< 0.43	< 0.43
2-Butanone (MEK)	< 2	< 2	< 2
2-Hexanone	< 2	< 2	< 2
4-Methyl-2-pentanone (MIBK)	< 1	< 1	< 1
Acetone	< 10	< 10	< 10
Benzene	< 0.31	< 0.31	< 0.31
Bromodichloromethane	< 0.24	< 0.24	< 0.24
Bromoform	< 0.41	< 0.41	< 0.41
Carbon Disulfide	< 0.53	< 0.53	< 0.53
Carbon Tetrachloride	< 0.36	< 0.36	< 0.36
Chlorobenzene	< 0.2	< 0.2	< 0.2
Chloroethane	< 0.67	< 0.67	< 0.67
Chloroform	< 0.3	< 0.3	< 0.3
cis-1,2-Dichloroethylene	< 0.28	< 0.28	< 0.28
cis-1,3-Dichloropropene	< 0.29	< 0.29	< 0.29
Dibromochloromethane	< 0.28	< 0.28	< 0.28
Ethylbenzene	< 0.36	< 0.36	< 0.36
Methyl Bromide	< 2	< 2	< 2
Methyl Chloride	< 0.5	< 0.5	< 0.5
Methylene Chloride	< 2	< 2	< 2
Styrene	< 0.22	< 0.22	< 0.22
Tetrachloroethylene	< 0.22	< 0.22	< 0.22
Toluene	**6.6**	**7.6**	**7.7**
trans-1,2-Dichloroethylene	< 0.22	< 0.22	< 0.22
trans-1,3-Dichloropropene	< 0.21	< 0.21	< 0.21
Trichloroethylene	< 0.35	< 0.35	< 0.35
Vinyl Chloride	< 0.41	< 0.41	< 0.41
Xylene (total)	< 0.72	< 0.72	< 0.72

Notes:
µg/L - micrograms per liter (parts per billion)
Bold font and shading indicates the analyte was detected.
See Table 8 for explanation of data qualifiers.

Table 8
Definitions of Data Qualifiers
Delavan Spray Technologies Site
Bamberg, South Carolina

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

Laboratory Data Qualifiers

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

Result Data Qualifiers

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

Analysis Data Qualifiers

Qualifier	Description
D	Percent difference of matrix spike duplicate exceeded the established criteria.
h	Holding time exceeded by less than two times.
M	Matrix spike recovery exceeded established criteria.
T	Detected in the associated trip blank.

Appendix A

Technical Memorandum – Fall 2022 Residential Sampling Activities and Results

AECOM
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864 234 3000 tel
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TECHNICAL MEMORANDUM

TO: Cynde Devlin, SCDHEC

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

COPY: Paul DiNardo, Raytheon Technologies Corporation
Todd McLeod, Delavan Spray Technologies
David Graham, Delavan Spray Technologies
AECOM Project File 60314964/60656814

RE: Fall 2022 Residential Sampling Activities and Results
Delavan Spray LLC
Bamberg, South Carolina
VCC 13-4762-RP

DATE: February 27, 2023

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 2022 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 7, 2022, 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 October 25, 2022, AECOM collected groundwater samples from 8 residential wells with active GAC systems. (**Figure 1**). Private wells 343 LCR, 546 LCR-A, and 698 LCR were not sampled because the wells were turned off and not operational at the time of sampling (pump out of service at 546 LCR-A and power off at 343 LCR and698 LCR). All 8 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 2022 to verify performance
410 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2022 to verify performance

Well Location	Rationale
448 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2022 to verify performance
546 LCR-B	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2022 to verify performance
684 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2022 to verify performance
689 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2022 to verify performance
715 LCR	Low-level PCE detection in April 2019; GAC installed in October 2019; sampled in October 2022 to verify performance
743 LCR	Low-level PCE detection in January 2018; GAC installed in July 2018; sampled in October 2022 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 8 residential wells during the Fall 2022 monitoring event (**Table 1 and Figure 2**). PCE was detected in pre-treatment groundwater samples from 6 residential wells (13 LCT, 448 LCR, 546LCR-B, 689 LCR, 715 LCR, and 743 LCR). Consistent with the prior residential well sampling,

all PCE detections were low concentrations. The highest detection in Fall 2022 was 0.47 J (estimated) µg/L, significantly below the MCL for PCE (5 µg/L). Laboratory results of cis-1,2-DCE qualified "/J/E" for the 8 residential well samples[1] (**Table 1)** but did not result in the rejection of any data. (**Attachment 3**). No detections were found in the post-treatment samples, indicating the GAC systems are working as intended. Other than PCE, no other compounds were detected in samples from residential wells in October 2022.

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, it is possible 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.*

[1] – "/J/E" due to the relative percent difference between the laboratory control sample and laboratory control sample duplicate exceeding the established criteria of 25% (30%).

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

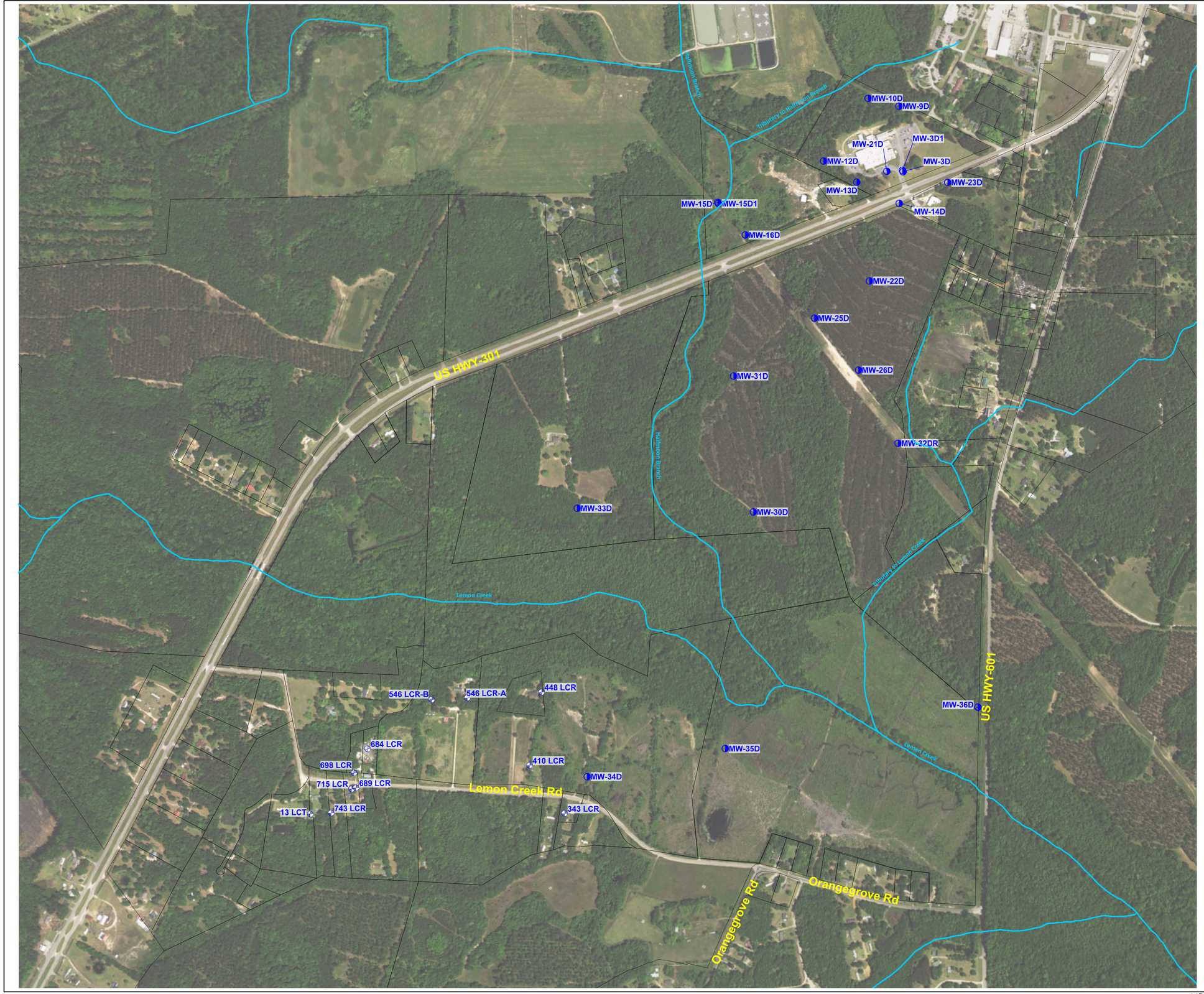
AECOM, June 20, 2020. *Deep Groundwater Delineation Technical Memorandum, Bamberg, South Carolina.*

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.*

Figures



LEGEND

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

Notes:
1) Locations 343 LCR, 546 LCR-A, and 698 LCR were not sampled in October 2022 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

0 121.92024384 243.84048768
FEET

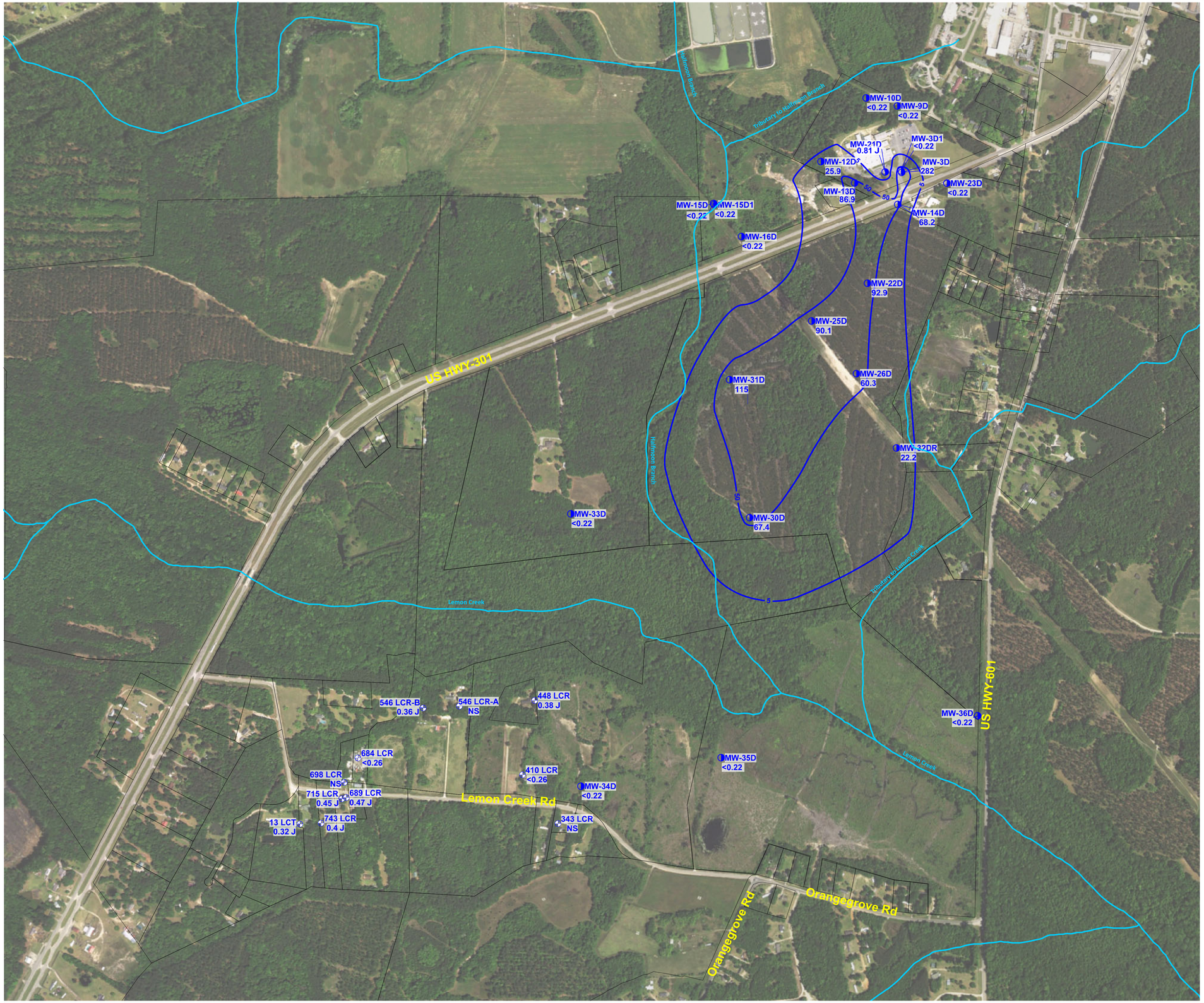
AECOM
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-2300 F: (864) 234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Residential Well Sample Location Map

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

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2022 Plume maps\Residential Properties Samples PCE October 2022.srf



LEGEND

438BBR	Well Sample ID
	Residential Well Sample Location
	Deep Monitoring Well
	Property Boundary
	Surface Water
	PCE Isoconcentration Contour - October 2022 (µg/L)
< 0.26	PCE Concentration - October 2022 (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, 546 LCR-A, and 698 LCR were not sampled in October 2022 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

0 121.92024384 243.84048768
FEET

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Delavan Spray Technologies Site
Bamberg, South Carolina

PCE Concentrations in Residential Groundwater Samples – October 2022

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

L:\Projects\60314964\400-Technical\406 Surfer\For Oct 2022 Plume maps\Residential Properties Samples PCE October 2022.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	35755736001			35755736002			35755736003			35755736004			35755736005			35755736006		
Date Collected		10/25/22			10/25/22			10/25/22			10/25/22			10/25/22			10/25/22		
Select Volatile Organic Compounds by Method 524.2 (µg/L)																			
cis-1,2-Dichloroethene	70	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E
Tetrachloroethene	5		**0.32**	**J//**	<	0.26		<	0.26		<	0.26			**0.38**	**J//**	<	0.26	
Trichloroethene	5	<	0.26		<	0.26		<	0.26		<	0.26		<	0.26		<	0.26	
Vinyl chloride	2	<	0.12		<	0.12		<	0.12		<	0.12		<	0.12		<	0.12	

Sample ID		546 LCR-B-Pre			546 LCR-B-Post			684 LCR-Pre			684 LCR-Post			689 LCR-Pre			689 LCR-Post		
Lab Sample ID	MCL	35755736009			35755736010			35755736011			35755736012			35755736013			35755736014		
Date Collected		10/25/22			10/25/22			10/25/22			10/25/22			10/25/22			10/25/22		
Select Volatile Organic Compounds by Method 524.2 (µg/L)																			
cis-1,2-Dichloroethene	70	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E
Tetrachloroethene	5		**0.36**	**J//**	<	0.26		<	0.26		<	0.26			**0.47**	**J//**	<	0.26	
Trichloroethene	5	<	0.26		<	0.26		<	0.26		<	0.26		<	0.26		<	0.26	
Vinyl chloride	2	<	0.12		<	0.12		<	0.12		<	0.12		<	0.12		<	0.12	

Sample ID		715 LCR-Pre			715 LCR-Post			743 LCR-Pre			743 LCR-Post		
Lab Sample ID	MCL	35755736015			35755736016			35755736017			35755736018		
Date Collected		10/25/22			10/25/22			10/25/22			10/25/22		
Select Volatile Organic Compounds by Method 524.2 (µg/L)													
cis-1,2-Dichloroethene	70	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E	<	0.33	/J/E
Tetrachloroethene	5		**0.45**	**J//**	<	0.26			**0.4**	**J//**	<	0.26	
Trichloroethene	5	<	0.26		<	0.26		<	0.26		<	0.26	
Vinyl chloride	2	<	0.12		<	0.12		<	0.12		<	0.12	

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 practical quantitation limit.

Result Data Qualifiers

Qualifier	Description
J	The analyte was positively identified. The quantitation is an estimation.

Analysis Data Qualifiers

Qualifier	Description
E	Percent difference of laboratory control sample duplicate exceeded the established criteria.

Attachment 1

Field Documentation

YSI 556 MPS / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp, LAB, C :	21.6	Temp, FIELD, C :	

Conductivity 1413 UMHO/CM @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	8208499	9/24	1.42		(+/- .5%)

PH 4.00 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	6207001	7/24	4.01		(+/- 0.2 units)

PH 7.01 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	6207002	7/24	7.07		(+/- 0.2 units)

PH 10.01 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	8206193	6/24	10.03		(+/- 0.2 units)

ORP ZOBELLS 231.0 MV @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	8209421	7/23	237.5		(+/- 20 MV)

Dissolved Oxygen (Saturated Air)		Temp, C	% Saturation	mg/L	Acceptable Range
	Post-Cal, LAB	23.1	97.1	8.32	
	Post-Cal, FIELD				(+/- 2%) / (+/- 2%)

New DO Membrane: ○ Yes ⊗ No

Do Cap Color: ○ Black ○ Blue ◉ Yellow

Model: YSI - PRO PLUS S/N: 3731 Cable: N/A

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
.02 NTU	211042	OCT-23	0.02		(.0196 to .0204)
10 NTU	211019	〃	9.98		(9.8 to 10.2)
1000 NTU	211059	〃	998		(970 to 1031)

Model: Micro TPW S/N: 20180917

Calibrated By: Eric Olson Date of Calibration: 10-20-22

Project Name: UTC Project number: 60656814

Signed :

REV-6, 10/31/2018 EKO

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delaware Bamboo SC
Project Number:
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 S/N: ProDss 3731
Turbidity Meter Model/SN: 20180919
Additional Equipment S/N:
Date: 10-25-2022

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

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

Table 1: Calibration Values At Various Temperatures

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

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

Table 2: Atmospheric Pressure / Altitude Table

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

Table 3: DO % Saturation Vs. Temperature

Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.253	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	758.9		0730	mmHg
Temperature (Saturated Air)	9.5	9.5	0730	C
Temperature (Calibration Solution)	15.2	15.0	0750	C
DO	RM 107.6 1235	11.37	0730	mg/L
pH 7	7.22	7.04	0758	SU
pH 4	4.21	4.00	0742	SU
pH 10	10.17	10.10	0746	SU
Specific Conductance	1.39	1.15	0734	mS/cm
ORP	248.5	244.0	0750	mV

MicroTPW Calibration

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

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	10/25 1100	18.3	0.210	5.94	7.70	148.5	0.97	
13 LCT - POST	10/25 1105	13.2	0.196	0.88	7.84	146.4	1.70	
343 LCR - PRE	—	—	—	—	—	—	—	
343 LCR - POST	—	—	—	—	—	—	—	
410 LCR - PRE	10/25 1220	19.2	0.224	3.83	7.68	123.0	1.29	
410 LCR - POST	10/25 1225	18.7	0.227	9.00	7.68	122.6	2.60	
448 LCR - PRE	10/25 1210	19.4	0.220	4.24	7.70	119.6	3.56	
448 LCR - POST	10/25 1215	15.2	0.210	2.56	7.53	126.1	5.55	
546 LCR-A - PRE	10/25 1150	17.5	0.218	2.92	7.68	177.1	1.88	
546 LCR-A - POST	10/25 1155	19.6	0.218	2.45	7.58	169.3	1.36	
546 LCR-B - PRE	10/25 1200	19.5	0.217	6.25	7.59	167.5	2.03	
546 LCR-B - POST	10/25 1205	19.7	0.217	2.76	7.57	146.6	2.77	
684 LCR - PRE	10/25 1140	19.1	0.210	4.71	7.74	168.0	1.00	
684 LCR - POST	10/25 1145	16.9	0.213	1.68	7.84	150.4	3.40	
689 LCR - PRE	10/25 1130	17.6	0.217	4.38	7.74	177.0	1.53	
689 LCR - POST	10/25 1135	14.5	0.218	1.65	7.92	166.2	6.30	
698 LCR - PRE	—	—	—	—	—	—	—	
698 LCR - POST	1160	—	—	—	—	—	—	
715 LCR - PRE	10/25 1120	18.8	0.215	3.72	7.75	174.8	1.57	
715 LCR - POST	10/25 1125	15.5	0.218	1.01	7.80	178.2	2.50	
743 LCR - PRE	10/25 1110	18.4	0.214	3.40	7.71	154.1	1.07	
743 LCR - POST	10/25 1115	13.6	0.217	3.38	7.91	154.8	3.36	

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

Chain of Custody and Analytical Request

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

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	Sample Analysis Requested: *PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride	Quality Assurance Samples: COMMENTS	Cooler ID
13 LCT - Pre	25-OCT-2022	1100		X		Drinking water	X	X	X	X	*by USEPA drinking water	
13 LCT - Post		1105					X	X	X	X	by method 524.2	
410 LCR - Pre		1220					X	X	X	X		
410 LCR - Post		1225					X	X	X	X		
448 LCR - Pre		1210					X	X	X	X		
448 LCR - Post		1215					X	X	X	X		
546 LCR - A - Pre		1150					X	X	X	X	(Discarded Dye to pump not working "A")	
546 LCR - A - Post		1155					X	X	X	X		
546 LCR - B - Pre		1200					X	X	X	X		
546 LCR - B - Post		1205					X	X	X	X		
684 LCR - Pre		1140					X	X	X	X		
684 LCR - Post		1145					X	X	X	X		
689 LCR - Pre		1130					X	X	X	X		
689 LCR - Post		1135					X	X	X	X		
715 LCR - Pre	↓	1120		↓		↓	X	X	X	X		

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10/25/22	1400			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

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

AECOM

Chain of Custody and Analytical Request

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

Project Name / Location: Delavan Spray Technologies, Bamberg SC

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	*PCE	*TCE	*cis- 1,2-DCE	*vinyl chloride								COMMENTS	Cooler ID
715 LCR- Post	26-OCT-2022	1125		X		Drinking water	X	X	X	X								*by USEPA drinking water	
743 LCR- PRE	↓	1110		↓		↓	X	X	X	X								by method 524.2	
743 LCR- Post	↓	1115		↓		↓	X	X	X	X									
TRIP BLANK							X	X	X	X									

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10/25/22	1400			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

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

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

10/24/22 UTC Delavan, Bamberg SC

0430 at AECOM - load tethers, weights, PDBS, Hydrasleeves

0450 at Progress Park load equipment

0510 leave for UTC Delavan - will be pulling tubing in all the wells and replacing with Hydrasleeves + PDBS.

0730 arrive on site - Randy Morgan begin to open wells to equilibrate and pull tubing to be flushed.

1000 opened all flush mount wells and pulled all tubing.

1010 Justin arrives onsite - signs in

1015 H + S briefing.

1025 begin water levels and deploying Hydrasleeves - the hydrasleeve will need to be left in the wells for a minimum of 48 hours before sampling

1445 begin water levels + pulling tubing on stickup wells + deploying hydrasleeves

1615 back on site to go into bldg to put PDBs in wells inside bldg - these will need to remain for 14 days before sampling.

1700 All completed - turn in badges - leave site.

Randy Morgan 10-24-22

UTC Delavan Bamberg SC 10/25/22

0720 purchase ice Bamberg SC

0730 arrive on site - calibrate YSI ProPlus S/N 23731

0815 prepare to start surface water sampling Go to SW-05-LC - road is blocked by gates at all locations South/North with signs on Northside of Charlie Road saying Private Property west back to South end of the road gate up with No signs - walked around gate to bridge collected SW-05-LC

0950 Collect SW-01-LC

~~Collect~~ SW-04-TLC (DRY)

1030 collect SW-02-LC

1046 collect SW-03-HMB

Prepare to begin residential sampling of the carbon units Pre + Post.

1100 at 13LCT - Pre collect sample

1105 13LCT - Post collect sample

1220 410LCR - Pre collect sample

1225 410LCR - Post collect sample

1210 448LCR - Pre

1215 448LCR Post

1150 546LCR-A-Pre

1155 546LCR-A Post

Randy Morgan 10-25-22

10/25/22 UTC Delavan Bamberg SC

While collecting samples at 546 LCR-A never heard pump cycle - Nicole at home will check back to verify if pumps working

1200 at 546 LCR-B-Pre Sampled
1205 546 LCR-B-Post
1140 684 LCR-Pre
1145 684 LCR-Post
1130 689 LCR-Pre
1135 689 LCR-Post
1120 715 LCR-Pre
1125 715 LCR-Post
1110 746 LCR-Pre
1115 746 LCR-Post
1235 back at the Delavan plant to pack samples - complete COC
1300 Justin off site to deliver samples for Residental Carbon to Pace/Sheely West Columbia SC
Randy to finish weed eating around wells
1400 complete weed eating
1410 Purchase additional ice for surface water samples. At Lowes looking for flagging
1500 at Motel end of day

Randy Morgan 10-25-22

UTC Delavan Bamberg SC 10/26/22

0730 purchase extra bolts for flushmount covers and pink flagging to flag well locations hard to locate
0800 on site - calibrate YSI Pro Plus S/N 3731
0820 confirm with Connan about IDW there are 4 drums of IDW onsite
#1 - 10-19-2020 purge water
#2 - 10-21-2020 purge water
#3 - 4-12-2021 purge water
#4 - 10-20 2021 purge water
The #4 drum will contain this weeks purge water and will be the only drum sampled it will have todays date on it #4 - 10-26-2022 it will be full drum already & had 80% then added this weeks purge water
0830 - 1000 clear paths and re-flag paths to wells for future sampling.
1030 at MW-21D begin sampling out of Hydra sleeves.
1040 sampled MW-2
1052 sampled MW-21
1100 sampled MW-30I
1110 sampled MW-30

Attachment 2

Laboratory Analytical Report

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

October 31, 2022

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

RE: Project: XJ25024
Pace Project No.: 35755736

Dear Kathy Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2022. 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,

Luz Maria Woiski

Luz Woiski
luz.woiski@pacelabs.com
954-582-4300
Project Manager

Enclosures

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CERTIFICATIONS

Project: XJ25024
Pace Project No.: 35755736

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
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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SAMPLE ANALYTE COUNT

Project: XJ25024
Pace Project No.: 35755736

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35755736001	**13 LCT-Pre**	EPA 524.2	AS4	7	PASI-O
35755736002	**13 LCT-Post**	EPA 524.2	AS4	7	PASI-O
35755736003	**410 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35755736004	**410 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35755736005	**448 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35755736006	**448 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35755736009	**546 LCR-B-Pre**	EPA 524.2	AS4	7	PASI-O
35755736010	**546 LCR-B-Post**	EPA 524.2	AS4	7	PASI-O
35755736011	**684 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35755736012	**684 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35755736013	**689 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35755736014	**689 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35755736015	**715 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35755736016	**715 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35755736017	**743 LCR-Pre**	EPA 524.2	AS4	7	PASI-O
35755736018	**743 LCR-Post**	EPA 524.2	AS4	7	PASI-O
35755736019	**Trip Blank**	EPA 524.2	AS4	7	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: XJ25024
Pace Project No.: 35755736

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35755736001	**13 LCT-Pre**					
EPA 524.2	Tetrachloroethene	0.32 I	ug/L	0.50	10/27/22 16:03	
35755736005	**448 LCR-Pre**					
EPA 524.2	Tetrachloroethene	0.38 I	ug/L	0.50	10/27/22 17:41	
35755736009	**546 LCR-B-Pre**					
EPA 524.2	Tetrachloroethene	0.36 I	ug/L	0.50	10/27/22 18:30	
35755736013	**689 LCR-Pre**					
EPA 524.2	Tetrachloroethene	0.47 I	ug/L	0.50	10/27/22 21:46	
35755736015	**715 LCR-Pre**					
EPA 524.2	Tetrachloroethene	0.45 I	ug/L	0.50	10/27/22 22:35	
35755736017	**743 LCR-Pre**					
EPA 524.2	Tetrachloroethene	0.40 I	ug/L	0.50	10/27/22 23:24	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 13 LCT-Pre **Lab ID: 35755736001** Collected: 10/25/22 11:00 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 16:03	156-59-2	
Tetrachloroethene	**0.32 I**	ug/L	0.50	1		10/27/22 16:03	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 16:03	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 16:03	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		10/27/22 16:03	460-00-4	
Toluene-d8 (S)	93	%	70-130	1		10/27/22 16:03	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130	1		10/27/22 16:03	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 13 LCT-Post **Lab ID: 35755736002** Collected: 10/25/22 11:05 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 16:28	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 16:28	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 16:28	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 16:28	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		10/27/22 16:28	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/22 16:28	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		10/27/22 16:28	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 410 LCR-Pre **Lab ID: 35755736003** Collected: 10/25/22 12:20 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 16:52	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 16:52	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 16:52	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 16:52	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		10/27/22 16:52	460-00-4	
Toluene-d8 (S)	96	%	70-130	1		10/27/22 16:52	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		10/27/22 16:52	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 410 LCR-Post **Lab ID: 35755736004** Collected: 10/25/22 12:25 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 17:16	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 17:16	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 17:16	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 17:16	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		10/27/22 17:16	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		10/27/22 17:16	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130	1		10/27/22 17:16	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 448 LCR-Pre **Lab ID: 35755736005** Collected: 10/25/22 12:10 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 17:41	156-59-2	
Tetrachloroethene	**0.38 I**	ug/L	0.50	1		10/27/22 17:41	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 17:41	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 17:41	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		10/27/22 17:41	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/27/22 17:41	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		10/27/22 17:41	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 448 LCR-Post **Lab ID: 35755736006** Collected: 10/25/22 12:15 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 18:05	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 18:05	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 18:05	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 18:05	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		10/27/22 18:05	460-00-4	
Toluene-d8 (S)	91	%	70-130	1		10/27/22 18:05	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 18:05	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 546 LCR-B-Pre **Lab ID: 35755736009** Collected: 10/25/22 12:00 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 18:30	156-59-2	
Tetrachloroethene	**0.36 I**	ug/L	0.50	1		10/27/22 18:30	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 18:30	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 18:30	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		10/27/22 18:30	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		10/27/22 18:30	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 18:30	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 546 LCR-B-Post **Lab ID: 35755736010** Collected: 10/25/22 12:05 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 20:32	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 20:32	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 20:32	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 20:32	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		10/27/22 20:32	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/27/22 20:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		10/27/22 20:32	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 684 LCR-Pre **Lab ID: 35755736011** Collected: 10/25/22 11:40 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 20:57	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 20:57	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 20:57	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 20:57	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		10/27/22 20:57	460-00-4	
Toluene-d8 (S)	90	%	70-130	1		10/27/22 20:57	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130	1		10/27/22 20:57	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 684 LCR-Post **Lab ID: 35755736012** Collected: 10/25/22 11:45 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 21:21	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 21:21	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 21:21	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 21:21	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		10/27/22 21:21	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		10/27/22 21:21	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 21:21	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 689 LCR-Pre **Lab ID: 35755736013** Collected: 10/25/22 11:30 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 21:46	156-59-2	
Tetrachloroethene	**0.47 I**	ug/L	0.50	1		10/27/22 21:46	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 21:46	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 21:46	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		10/27/22 21:46	460-00-4	
Toluene-d8 (S)	91	%	70-130	1		10/27/22 21:46	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 21:46	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 689 LCR-Post **Lab ID: 35755736014** Collected: 10/25/22 11:35 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 22:10	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 22:10	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 22:10	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 22:10	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		10/27/22 22:10	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		10/27/22 22:10	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 22:10	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: XJ25024
Pace Project No.: 35755736

Sample: 715 LCR-Pre **Lab ID: 35755736015** Collected: 10/25/22 11:20 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 22:35	156-59-2	
Tetrachloroethene	**0.45 I**	ug/L	0.50	1		10/27/22 22:35	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 22:35	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 22:35	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		10/27/22 22:35	460-00-4	
Toluene-d8 (S)	92	%	70-130	1		10/27/22 22:35	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 22:35	2199-69-1	

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(386)672-5668

ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 715 LCR-Post **Lab ID: 35755736016** Collected: 10/25/22 11:25 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 23:00	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 23:00	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 23:00	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 23:00	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		10/27/22 23:00	460-00-4	
Toluene-d8 (S)	91	%	70-130	1		10/27/22 23:00	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130	1		10/27/22 23:00	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 743 LCR-Pre **Lab ID: 35755736017** Collected: 10/25/22 11:10 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 23:24	156-59-2	
Tetrachloroethene	**0.40 I**	ug/L	0.50	1		10/27/22 23:24	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 23:24	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 23:24	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		10/27/22 23:24	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/27/22 23:24	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		10/27/22 23:24	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: 743 LCR-Post **Lab ID: 35755736018** Collected: 10/25/22 11:15 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 23:48	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 23:48	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 23:48	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 23:48	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		10/27/22 23:48	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/22 23:48	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130	1		10/27/22 23:48	2199-69-1	

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ANALYTICAL RESULTS

Project: XJ25024
Pace Project No.: 35755736

Sample: Trip Blank **Lab ID: 35755736019** Collected: 10/25/22 00:00 Received: 10/26/22 10:40 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach							
cis-1,2-Dichloroethene	**0.33 U**	ug/L	0.50	1		10/27/22 15:45	156-59-2	
Tetrachloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 15:45	127-18-4	
Trichloroethene	**0.26 U**	ug/L	0.50	1		10/27/22 15:45	79-01-6	
Vinyl chloride	**0.12 U**	ug/L	0.50	1		10/27/22 15:45	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		10/27/22 15:45	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/22 15:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130	1		10/27/22 15:45	2199-69-1	

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: XJ25024
Pace Project No.: 35755736

QC Batch: 867250
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: 35755736001, 35755736002, 35755736003, 35755736004, 35755736005, 35755736006, 35755736009, 35755736010, 35755736011, 35755736012, 35755736013, 35755736014, 35755736015, 35755736016, 35755736017, 35755736018

METHOD BLANK: 4771711 Matrix: Water
Associated Lab Samples: 35755736001, 35755736002, 35755736003, 35755736004, 35755736005, 35755736006, 35755736009, 35755736010, 35755736011, 35755736012, 35755736013, 35755736014, 35755736015, 35755736016, 35755736017, 35755736018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.33 U	0.50	10/27/22 15:39	
Tetrachloroethene	ug/L	0.26 U	0.50	10/27/22 15:39	
Trichloroethene	ug/L	0.26 U	0.50	10/27/22 15:39	
Vinyl chloride	ug/L	0.12 U	0.50	10/27/22 15:39	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130	10/27/22 15:39	
4-Bromofluorobenzene (S)	%	101	70-130	10/27/22 15:39	
Toluene-d8 (S)	%	97	70-130	10/27/22 15:39	

LABORATORY CONTROL SAMPLE & LCSD: 4771712 4771713

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	48.0	35.5	120	89	70-130	30	20	J(R1)
Tetrachloroethene	ug/L	40	46.3	44.8	116	112	70-130	3	20	
Trichloroethene	ug/L	40	37.9	37.0	95	92	70-130	2	20	
Vinyl chloride	ug/L	40	37.9	42.6	95	106	70-130	12	20	
1,2-Dichlorobenzene-d4 (S)	%				102	100	70-130			
4-Bromofluorobenzene (S)	%				118	119	70-130			
Toluene-d8 (S)	%				101	95	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: XJ25024
Pace Project No.: 35755736

QC Batch: 867251
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: 35755736019

METHOD BLANK: 4771714 Matrix: Water
Associated Lab Samples: 35755736019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.33 U	0.50	10/27/22 15:20	
Tetrachloroethene	ug/L	0.26 U	0.50	10/27/22 15:20	
Trichloroethene	ug/L	0.26 U	0.50	10/27/22 15:20	
Vinyl chloride	ug/L	0.12 U	0.50	10/27/22 15:20	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	10/27/22 15:20	
4-Bromofluorobenzene (S)	%	92	70-130	10/27/22 15:20	
Toluene-d8 (S)	%	98	70-130	10/27/22 15:20	

LABORATORY CONTROL SAMPLE & LCSD: 4771715 4771716

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	39.5	40.0	99	100	70-130	1	20	
Tetrachloroethene	ug/L	40	39.2	40.0	98	100	70-130	2	20	
Trichloroethene	ug/L	40	39.4	40.2	98	101	70-130	2	20	
Vinyl chloride	ug/L	40	40.4	42.6	101	107	70-130	5	20	
1,2-Dichlorobenzene-d4 (S)	%				100	100	70-130			
4-Bromofluorobenzene (S)	%				97	96	70-130			
Toluene-d8 (S)	%				100	99	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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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: XJ25024
Pace Project No.: 35755736

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.
J(R1)	Estimated Value. RPD value was outside control limits.

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Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: XJ25024
Pace Project No.: 35755736

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35755736001	**13 LCT-Pre**	EPA 524.2	867250		
35755736002	**13 LCT-Post**	EPA 524.2	867250		
35755736003	**410 LCR-Pre**	EPA 524.2	867250		
35755736004	**410 LCR-Post**	EPA 524.2	867250		
35755736005	**448 LCR-Pre**	EPA 524.2	867250		
35755736006	**448 LCR-Post**	EPA 524.2	867250		
35755736009	**546 LCR-B-Pre**	EPA 524.2	867250		
35755736010	**546 LCR-B-Post**	EPA 524.2	867250		
35755736011	**684 LCR-Pre**	EPA 524.2	867250		
35755736012	**684 LCR-Post**	EPA 524.2	867250		
35755736013	**689 LCR-Pre**	EPA 524.2	867250		
35755736014	**689 LCR-Post**	EPA 524.2	867250		
35755736015	**715 LCR-Pre**	EPA 524.2	867250		
35755736016	**715 LCR-Post**	EPA 524.2	867250		
35755736017	**743 LCR-Pre**	EPA 524.2	867250		
35755736018	**743 LCR-Post**	EPA 524.2	867250		
35755736019	**Trip Blank**	EPA 524.2	867251		

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WO# : 35755736

35755736

Chain of Custody

Pace Analytical

Workorder: XJ25024 Workorder Name: Delavan Spray Tech Owner Received Date: 10/25/2022 Results Requested By: 11/8/2022

Report To:	Subcontract To:
Kathy E. Smith	Project #
Pace Analytical	
106 Vantage Point Drive	Pace-Ormond Beach
Columbia SC, 29223	
803-227-2706	
Kathy.Smith@pacelabs.com	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCL	Requested Analysis: 524 PCE/TCE/cis-1,2-DCE	LAB USE ONLY
1	13 LCT-Pre	grab	10/25/2022 @ 1100	XJ25024-001	Aqueous	X	X	
2	13 LCT-Post	grab	10/25/2022 @ 1105	XJ25024-002	Aqueous	X	X	
3	410 LCR-Pre	grab	10/25/2022 @ 1220	XJ25024-003	Aqueous	X	X	
4	410 LCR-Post	grab	10/25/2022 @ 1225	XJ25024-004	Aqueous	X	X	
5	448 LCR- Pre	grab	10/25/2022 @ 1210	XJ25024-005	Aqueous	X	X	
6	448 LCR- Post	grab	10/25/2022 @ 1215	XJ25024-006	Aqueous	X	X	
7	546 LCR-A-Pre	grab	10/25/2022 @ 1150	XJ25024-007	Aqueous	X	X	
8	546 LCR-A-Post	grab	10/25/2022 @ 1155	XJ25024-008	Aqueous	X	X	
9	546 LCR-B-Pre	grab	10/25/2022 @ 1200	XJ25024-009	Aqueous	X	X	
10	546 LCR-B-Post	grab	10/25/2022 @ 1205	XJ25024-010	Aqueous	X	X	

Transfers	Released By	Date/Time	Reveived By	Date/Time	Comments
1	Kayan Means	10.25.221900	KAS PACE	10/26/22 1040	
2					
3					

Cooler Temperature on Receipt 0.1 °C | Custody Seal Y or N | Received on Ice Y or N | Sample Intact Y or N

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

Chain of Custody

Pace Analytical

Workorder: XJ25024 Workorder Name: Delavan Spray Tech Owner Received Date: 10/25/2022 Results Requested By: 11/8/2022

Report To:	Subcontract To:
Kathy E. Smith	Project #
Pace Analytical	
106 Vantage Point Drive	Pace-Ormond Beach
Columbia SC, 29223	
803-227-2706	
Kathy.Smith@pacelabs.com	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HCL	Requested Analysis 524 PCE/TCE/cis-1,2-DCE	LAB USE ONLY
1	684 LCR-Pre	grab	10/25/2022 @ 1140	XJ25024-011	Aqueous	X	X	
2	684 LCR-Post	grab	10/25/2022 @ 1145	XJ25024-012	Aqueous	X	X	
3	689 LCR-Pre	grab	10/25/2022 @ 1130	XJ25024-013	Aqueous	X	X	
4	689 LCR-Post	grab	10/25/2022 @ 1135	XJ25024-014	Aqueous	X	X	
5	715 LCR-Pre	grab	10/25/2022 @ 1120	XJ25024-015	Aqueous	X	X	
6	715 LCR-Post	grab	10/25/2022 @ 1125	XJ25024-016	Aqueous	X	X	
7	743 LCR-Pre	grab	10/25/2022 @ 1110	XJ25024-017	Aqueous	X	X	
8	743 LCR-Post	grab	10/25/2022 @ 1115	XJ25024-018	Aqueous	X	X	
9	Trip Blank	grab	10/25/2022 @ 0000	XJ25024-019	Aqueous	X	X	
10								

Transfers	Released By	Date/Time	Reveived By	Date/Time	Comments
1			KAS PACE	10/26/22	1040
2					
3					

Cooler Temperature on Receipt 0.1 °C Custody Seal (Y) or N Received on Ice (Y) or N Sample Intact (Y) or N

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

Pace Analytical

Ship to :

Pace-Ormond Beach

INTER_LABORATORY WORK ORDER # _____

(To be complete by sending lab)

Sending Project No:	XJ25024
Receiving Project No:	
Check Box for Consolidated Invoice:	X
Date Prepared:	25-Oct
REQUESTED COMPLETION DATE:	

Sending Region	IR77-SC	Sending Project Mgr.	Kathy E. Smith
Receiving Region	SC	External Client	AECOM
State of Sample Origin	SC	Q	**std report**

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ Cert Needed: _____

WORK REQUESTED							
Method Description	**Container Type**		**Quantity of containers**	**Preservative**	**Quantity of Samples**	**Unit Price**	**Amount**
524 PCE/TCE/cis-1,2-D(					19	73	1387
						TOTAL	1387

Special Requirements: _____

Receiving Region Department	**Acctg. Code**	**Totals from above**	**Revenue Allocation**	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
		1387	1109.6	277.4
* Custom Revenue Allocation		TOTAL	1109.6	277.4

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Chain of Custody Included: [x] **Yes** [ ] **No** Return Samples to Sending Reguion: [ ] **Yes** [x] **No**

Matrix: [ ] **Soil** [ ] **Water** [ ] **Air** [ ] Other (identity) _____

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Sample Condition Upon Receipt Form (SCUR)

Pace

WO#: 35755736

PM: LMW **Due Date: 11/04/22**

CLIENT: SHEALY

Project #

Project Manager:

Client:

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

Thermometer Used: T-399 Date: 10/26/22 Time: 1135 Initials: KAS

State of Origin:

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

Cooler #1 Temp.°C 0.1 **(Visual)** 0 **(Correction Factor)** 0.1 **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #2 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #3 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #4 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #5 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

Cooler #6 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun

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

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

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

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

Tracking # 1663 3468 1551

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

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

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

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

Comments/ Resolution (use back for additional comments): 1 vial in sample 10 has headspace,

Qualtrax Document ID: 33786

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 35755736 were collected on October 25, 2022 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 cis-1,2-dichloroethene associated with batch 867250 (samples 001-006 and 009-018) were qualified "/J/E" due to the relative percent difference between the laboratory control sample and laboratory control sample duplicate exceeding the established criteria of 25% (30%). These qualifiers indicate imprecision with laboratory methodology, instrumentation, or matrix interference.

Data Summary and Usability

The QC excursions encountered during the validation of this data set did not result in the rejection of any data. Therefore, the data associated with this laboratory batch should be considered compliant and adequate for its intended use.

References

United States Environmental Protection Agency (USEPA), July 2014. *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update V.*

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

Appendix B

Field Documentation

Equipment Calibration Logs
Water Level Data Summary
Field Screening Results
Chain-of-Custody Forms
Daily Logbook Entries

YSI 556 MPS / Water Quality Calibration Certificate

AECOM

Cal Standard	Temp, LAB, C :	21.6	Temp, FIELD, C :	

Conductivity 1413 UMHO/CM @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	8208499	9/24	1.42		(+/- .5%)

PH 4.00 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	6207001	7/24	4.01		(+/- 0.2 units)

PH 7.01 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	6207002	7/24	7.07		(+/- 0.2 units)

PH 10.01 @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	8206193	6/24	10.03		(+/- 0.2 units)

ORP ZOBELLS 231.0 MV @ 25C	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
	8209421	7/23	237.5		(+/- 20 MV)

Dissolved Oxygen (Saturated Air)		Temp, C	% Saturation	mg/L	Acceptable Range
	Post-Cal, LAB	23.1	97.1	8.32	
	Post-Cal, FIELD				(+/- 2%) / (+/- 2%)

New DO Membrane: ○ Yes ⊗ No

Do Cap Color: ○ Black ○ Blue ◉ Yellow

Model: YSI - PRO PLUS S/N: 3731 Cable: N/A

Calibration referenced to the temperature of the calibration standards.

Turbidity	Lot #	Expiration	Post-Cal, LAB	Post-Cal, FIELD	Acceptable Range
.02 NTU	211042	OCT-23	0.02		(.0196 to .0204)
10 NTU	211019	〃	9.98		(9.8 to 10.2)
1000 NTU	211059	〃	998		(970 to 1031)

Model: Micro TPW S/N: 20180917

Calibrated By: Eric Olson Date of Calibration: 10-20-22

Project Name: UTC Project number: 60656814

Signed :

REV-6, 10/31/2018 EKO

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delaware Bamboo SC
Project Number:
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 S/N: ProDss 3731
Turbidity Meter Model/SN: 20180919
Additional Equipment S/N:
Date: 10-25-2022

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

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

Table 1: Calibration Values At Various Temperatures

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

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

Table 2: Atmospheric Pressure / Altitude Table

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

Table 3: DO % Saturation Vs. Temperature

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

YSI 556 Calibration

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	758.9		0730	mmHg
Temperature (Saturated Air)	9.5	9.5	0730	C
Temperature (Calibration Solution)	15.2	15.0	0750	C
DO	RM 107.6 1235	11.37	0730	mg/L
pH 7	7.22	7.04	0758	SU
pH 4	4.21	4.00	0742	SU
pH 10	10.17	10.10	0746	SU
Specific Conductance	1.39	1.15	0734	mS/cm
ORP	248.5	244.0	0750	mV

MicroTPW Calibration

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

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Delaware Bamberg SC
Project Number:
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 SN: ProPlus 3731
Turbidity Meter Model/SN: 20180911
Additional Equipment SN:
Date: 10-26-2022

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

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

Table 1: Calibration Values At Various Temperatures

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

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

Table 2 Atmospheric Pressure / Altitude Table

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

Table 3 DO % Saturation Vs. Temperature

Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.253	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	752.7		0800	mmHg
Temperature (Saturated Air)	16.3	16.4	0800	C
Temperature (Calibration Solution)	17.5	17.8	0826	C
DO	9.80	9.72	0800	mg/L
pH 7	6.95	7.02	0808	SU
pH 4	3.73	4.00	0812	SU
pH 10	9.99	10.05	0816	SU
Specific Conductance	1.13	1.28	0804	mS/cm
ORP	237.4	237.5	0820	mV

MicroTPW Calibration

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

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: 4TC Delavan Bamberg SC
Project Number:
Calibrated By: Randy Morgan
Signature: Randy Morgan

YSI 556 SN: ProPlus 3731
Turbidity Meter Model/SN: 20180917
Additional Equipment SN:
Date: 10-27-2022

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

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

Table 1: Calibration Values At Various Temperatures

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

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

Table 2: Atmospheric Pressure / Altitude Table

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

Table 3: DO % Saturation Vs. Temperature

Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.253	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.467	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	756.7		0705	mmHg
Temperature (Saturated Air)	14.1	14.3	0705	C
Temperature (Calibration Solution)	17.2	17.3	0725	C
DO	10.37	10.19	0705	mg/L
pH 7	7.13	7.02	0713	SU
pH 4	4.03	4.00	0717	SU
pH 10	10.04	10.06	0721	SU
Specific Conductance	1.29	1.28	0709	mS/cm
ORP	239.2	237.5	0725	mV

MicroTPW Calibration

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

AECOM

FIELD INSTRUMENT CALIBRATION LOG

Project Name: UTC Orlando
Project Number: 60699145
Calibrated By: Randy Moore
Signature: Randy Moore

YSI 556 S/N: 3731
Turbidity Meter Model/SN: 2018091771
Additional Equipment S/N:
Date: 11-15-2022

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

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

Table 1: Calibration Values At Various Temperatures

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

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

Table 2: Atmospheric Pressure / Altitude Table

Altitude feet (asl)	Pressure (mmHg)	Altitude feet (asl)	Pressure (mmHg)	Altitude feet (asl)	Pressure (mmHg)
0	760	1125	730	2290	699
278	752	1413	722	2587	692
558	745	1703	714	2887	684
841	737	1995	707	3190	676

Table 3: DO % Saturation Vs. Temperature

Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO	Temp C	DO
15	10.084	20	9.092	25	8.253	30	7.559	35	6.950
16	9.870	21	8.915	26	8.113	31	7.430	36	6.837
17	9.665	22	8.743	27	7.968	32	7.305	37	6.727
18	9.457	23	8.578	28	7.827	33	7.183	38	6.620
19	9.276	24	8.418	29	7.691	34	7.065	39	6.515

YSI 556 Calibration

Parameter	Before Calibration	After Calibration	Time	Units
Barometric Pressure	761.6	[redacted]	0850	mmHg
Temperature (Saturated Air)	18.5	18.7	0850	C
Temperature (Calibration Solution)	20.6	20.7	0910	C
DO	9.59	9.29	0850	mg/L
pH 7	7.08	7.02	0858	SU
pH 4	3.92	4.00	0902	SU
pH 10	10.01	10.05	0906	SU
Specific Conductance	1.27	1.28	0854	mS/cm
ORP	238.6	237.5	0910	mV

MicroTPW Calibration

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

WATER LEVEL DATA SUMMARY

PROJECT: UTC Delavan Spray Technologies Site
JOB NUMBER:
LOCATION: Bamberg, South Carolina
DATE: 10-24-2022
CLIENT: UTC
MEASURED BY: RM/JB
SURVEY DATUM:
MEASUING DEVICE: Electronic Water Level Indicator

MEASUREMENT POINT IDENTIFICATION	TOC ELEVATION (FT MSL)	DEPTH TO BOTTOM OF WELL (FT BTOC)	POINT OF MEASURE	DEPTH TO WATER (FT BTOC)	COMMENTS
MW-1				13.05	
MW-2				13.08	
MW-3				14.07	
MW-3D				15.38	
MW-3D1				15.19	
MW-4				11.58	
MW-5				11.54	
MW-6				9.38	
MW-7				14.60	
MW-8				12.35	
MW-9				9.37	
MW-9D				10.95	
MW-10				8.82	
MW-10D				8.76	
MW-11				8.86	
MW-12D				14.92	
MW-13D				13.63	
MW-14				12.82	
MW-14D				14.30	
MW-15				5.10	
MW-15D				3.19	
MW-15D1				3.33	
MW-16				6.22	
MW-16D				6.14	
MW-17				6.69	
MW-18				11.87	

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

WATER LEVEL DATA SUMMARY

PROJECT: UTC Delavan Spray Technologies Site
JOB NUMBER: 60578249.01
LOCATION: Bamberg, South Carolina
DATE: 10.24.2022
CLIENT: UTC
MEASURED BY: Randy Morgan /JB
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				13.98	
MW-20				13.78	
MW-21				14.13	
MW-21D				14.16	
MW-22D				13.49	
MW-23D				15.48	
MW-24				14.95	
MW-25D				6.85	
MW-26D				11.43	
MW-27				12.27	
MW-28				13.43	
MW-29				7.93	
MW-30D				5.53	
MW-31D				9.77	
MW-32DR				7.80	
MW-33D				13.39	
MW-34D				14.35	
MW-35D				12.28	
MW-36D				2.90	
MW-37D				13.75	

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

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 Background Areas								
MW-17	10/26 1340	20.2	0.085	3.10	4.69	256.9	29.35	
MW-18	10/26 1330	21.2	0.045	1.86	4.63	259.9	3.00	
On-Site Background Areas								
MW-4	10/26 1230	22.1	0.078	1.19	5.19	102.5	572.5	
Wooded Areas of Interest								
MW-9**	10/26 1320	22.1	0.033	1.01	5.39	186.4	43.95	
MW-9D	10/26 1310	20.7	0.163	0.59	7.36	-93.6	2.69	
MW-10	10/26 1300	20.7	0.058	0.79	5.32	112.3	6.23	
MW-10D	10/26 1250	20.3	0.240	2.99	7.44	71.1	30.79	
MW-11	10/26 1240	21.1	0.220	0.90	5.08	187.4	16.48	
Manufacturing Areas								
MW-1*	10/26 1130	24.0	0.035	3.67	4.87	239.3	193.4	
MW-2	10/26 1040	23.5	0.028	2.03	5.64	154.1	50.88	
MW-3	10/26 1120	23.7	0.028	3.59	5.32	176.5	12.61	
MW-3D	10/26 1110	21.1	0.252	2.06	7.97	68.6	37.52	
MW-3D1	10/26 1100	20.8	0.213	1.00	7.36	81.6	3.75	
MW-5	10/26 1200	24.3	0.023	4.15	5.01	226.5	916.7	
MW-6	10/26 1150	22.2	0.024	2.74	4.74	247.6	11.92	
MW-7	10/26 1220	24.5	0.019	4.40	5.16	219.5	5.77	
MW-8*	10/26 1140	26.2	0.081	2.71	4.65	267.3	8.28	
MW-12D	10/26 1450	20.1	0.186	2.06	10.02	99.0	9.59	
MW-13D	10/26 1440	20.8	0.193	2.94	9.50	133.0	97.52	
* MW-19	11-14 1000	17.5	0.011	2.05	4.75	264.5	0.00	
* MW-20	11-14 1015						1.88	not enough water for parameters
MW-21	10/26 1050	21.1	0.024	0.89	5.08	215.2	3.47	
MW-21D	10/26 1030	21.1	0.254	1.41	9.50	107.8	2.84	
MW-24*	10/26 1210	22.3	0.021	4.26	4.85	228.9	6.33	
Downgradient Off-Site Areas								
MW-14	10/27 0930	21.3	0.036	4.57	5.60	183.3	29.51	
MW-14D*	10/27 0940	20.1	0.162	2.27	10.55	71.2	50.25	
MW-15	10/26 1550	21.1	0.498	1.15	5.41	71.2	30.57	
MW-15D	10/26 1540	20.8	0.303	2.08	7.14	86.3	40.81	
MW-15D1	10/26 1530	20.1	0.163	0.82	7.04	84.2	440.2	
MW-16	10/26 1610	20.6	0.042	1.10	5.42	116.0	31.49	
MW-16D	10/26 1600	20.7	0.299	2.02	7.32	-58.4	3.48	
MW-22D*	10/27 0800	19.8	0.174	2.02	7.50	160.5	59.23	
MW-23D	10/27 0920	20.0	0.310	1.76	7.34	166.4	20.35	
MW-25D	10/27 0820	21.2	0.268	1.82	7.29	135.6	38.31	
MW-26D	10/27 0810	20.4	0.281	2.88	7.41	141.0	87.72	
MW-27	10/26 1500	21.5	0.041	4.63	7.02	196.3	14.64	
MW-28	10/26 1510	22.1	0.091	2.40	6.33	184.6	3.07	
MW-29	10/26 1520	21.9	0.049	2.08	5.45	186.6	5.95	
MW-30D**	10/27 0750	17.9	0.281	2.81	7.10	184.7	321.2	
MW-31D	10/27 0740	18.7	0.276	3.41	7.45	193.3	18.89	
MW-32DR*	10/27 0820	19.3	0.220	2.56	7.38	127.1	29.53	
MW-33D	10/27 1000	18.5	0.250	1.91	7.88	116.6	3.35	
MW-34D	10/27 0940	18.2	0.099	1.41	10.52	-105.8	80.07	
MW-35D	10/27 0930	20.2	0.243	2.45	8.03	59.7	2.99	
MW-36D	10/27 0930	17.9	0.296	0.68	7.53	-131.0	159.2	
* MW-37	11-14 0945	17.2	0.022	3.33	4.88	235.4	2.90	
Surface Water Samples								
SW-01-LC	10/25 0950	12.5	0.218	5.49	7.28	140.1	3.59	
SW-02-LC	10/25 1030	13.2	0.195	3.46	7.25	198.8	13.37	
SW-03-HMB	10/25 1040	11.9	0.248	8.59	7.25	183.9	15.40	
SW-04-TLC	10/25 1010	DRY	DRY	DRY	DRY	DRY	DRY	
SW-05-LC	10/25 0930	13.2	0.218	6.87	7.39	166.1	1.51	

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

| Sample ID | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hh:mm) | See Comments: COMP | GRAB | Well | Sample Information | TCL VOC,s 8260D | ~~TCL SVOC,s (8270E)~~ | ~~PM 13~~ | | |

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mn)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	~~TCL SVOC's (8270E)~~	~~PM+3~~	COMMENTS	Cooler ID
MW-11	26-OCT-2022	1240		X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
MW-10D		1250					X			7 DAY HOLDING TIME	
MW-10		1300					X				
MW-9D		1310					X				
MW-9		1320					X				
MW-9-MS		1320					X				
MW-9-MSD		1320					X				
MW-18		1330					X				
MW-17	↓	1340		↓		↓	X				
TRIP BLANK							X				
SW-05-LC	25-OCT-2022	0930		X		Surface Water	X				
SW-01-LC		0950					X				
SW-02-LC		1030					X				
SW-03-HMB	↓	1040		↓		↓	X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10/26/22	1430			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 0221 5707 9030 3125
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

AECOM

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
MW-13D	26-OCT 2022	1440		X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
MW-12D		1450					X			7 DAY HOLDING TIME	
MW-27		1500					X				
MW-28		1510					X				
MW-29		1520					X				
MW-15D1		1530					X				
MW-15D		1540					X				
MW-15		1550					X				
MW-16D		1600					X				
MW-16	↓	1610		↓		↓	X				
MW-31D	27-OCT 2022	0740					X				
MW-30D		0700					X				
MW-30D-MS		0750					X				
MW-30D-MSD		0750					X				
MW-22D	↓	0800		↓		↓	X				

Sample Analysis Requested

Quality Assurance Samples

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10/27/22	1200			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 0221 5707 9050 3103
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
MW-22D-a	27 OCT 2022	0800		X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
MW 26D		0810					X			7 DAY HOLDING TIME	
MW 25D		0820					X				
MW 32DR		0830					X				
MW-14D		0900					X				
MW-14D-a		0900					X				
MW-14		0910					X				
MW 23D		0920					X				
MW-36D		0930					X				
MW-34D		0940					X				
MW 35D		0950					X				
MW-33D		1000					X				
TRIP BLANK							X				
IDW-1	27 OCT 2022	1045		X		Groundwater	X	X	X		

Sample Analysis Requested

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10/27/22	1200			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 0221 5707 9050 3103
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

AECOM

Chain of Custody and Analytical Request

Page 1 of 1
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC's 8260D	COMMENTS	Cooler ID
MW-37	15-Nov-2022	0945			X	Groundwater	X	ALL VOC'S ARE UNPRESERVED	
MW-19	15-Nov-2022	1000			X		X	7 DAY HOLDING TIME	
MW-20	15-Nov-2022	1015			X		X		
TRIP Blank	15-Nov-2022			X			X		

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	11-15-22	1600			
2.						
3.						

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:
Method of Shipment: FedEx
Analytical Lab: Accutest
Lab Recipient:

Shipped: XXXX
Airbill #: 370749503114
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

10/24/22 UTC Delavan, Bamberg SC

0430 at AECOM - load tethers, weights, PDBS, Hydrasleeves

0450 at Progress Park load equipment

0510 leave for UTC Delavan - will be pulling tubing in all the wells and replacing with Hydrasleeves + PDBS.

0730 arrive on site - Randy Morgan begin to open wells to equilibrate and pull tubing to be flushed.

1000 opened all flush mount wells and pulled all tubing.

1010 Justin arrives onsite - signs in

1015 H + S briefing.

1025 begin water levels and deploying Hydrasleeves - the hydrasleeve will need to be left in the wells for a minimum of 48 hours before sampling

1445 begin water levels + pulling tubing on stickup wells + deploying hydrasleeves

1615 back on site to go into bldg to put PDBs in wells inside bldg - these will need to remain for 14 days before sampling.

1700 All completed - turn in badges - leave site.

Randy Morgan 10-24-22

UTC Delavan Bamberg SC 10/25/22

0720 purchase ice Bamberg SC

0730 arrive on site - calibrate YSI ProPlus S/N 23731

0815 prepare to start surface water sampling Go to SW-05-LC - road is blocked by gates at all locations South/North with signs on Northside of Charlie Road saying Private Property west back to South end of the road gate up with No signs - walked around gate to bridge collected SW-05-LC

0950 Collect SW-01-LC

~~Collect~~ SW-04-TLC (DRY)

1030 collect SW-02-LC

1046 collect SW-03-HMB

Prepare to begin residential sampling of the carbon units Pre + Post.

1100 at 13LCT - Pre collect sample

1105 13LCT - Post collect sample

1220 410LCR - Pre collect sample

1225 410LCR - Post collect sample

1210 448LCR - Pre

1215 448LCR Post

1150 546LCR-A-Pre

1155 546LCR-A Post

Randy Morgan 10-25-22

10/25/22 UTC Delavan Bamberg SC

While collecting samples at 546 LCR-A never heard pump cycle - Nicole at home will check back to verify if pumps working

1200 at 546 LCR-B-Pre Sampled
1205 546 LCR-B-Post
1140 684 LCR-Pre
1145 684 LCR-Post
1130 689 LCR-Pre
1135 689 LCR-Post
1120 715 LCR-Pre
1125 715 LCR-Post
1110 746 LCR-Pre
1115 746 LCR-Post
1235 back at the Delavan plant to pack samples - complete COC
1300 Justin off site to deliver samples for Residental Carbon to Pace/Sheely West Columbia SC
Randy to finish weed eating around wells
1400 complete weed eating
1410 Purchase additional ice for surface water samples. At Lowes looking for flagging
1500 at Motel end of day

Randy Morgan 10-25-22

UTC Delavan Bamberg SC 10/26/22

0730 purchase extra bolts for flushmount covers and pink flagging to flag well locations hard to locate
0800 on site - calibrate YSI Pro Plus S/N 3731
0820 confirm with Connan about IDW there are 4 drums of IDW onsite
#1 - 10-19-2020 purge water
#2 - 10-21-2020 purge water
#3 - 4-12-2021 purge water
#4 - 10-20 2021 purge water
The #4 drum will contain this weeks purge water and will be the only drum sampled it will have todays date on it #4 - 10-26-2022 it will be full drum already & had 80% then added this weeks purge water
0830 - 1000 clear paths and re-flag paths to wells for future sampling.
1030 at MW-21D begin sampling out of Hydra sleeves.
1040 sampled MW-2
1052 sampled MW-21
1100 sampled MW-30I
1110 sampled MW-30

10/26/2022 LTC Delavan Bamberg SC

1120 Sampled MW-3
1130 Sampled MW-1 needs #5 S/S weight to lower bag due to amount of water in the well
1140 Sampled MW-8 also MW-8-a
1150 sampled MW-6 needs S/S weight to lower bag due to amount of water in the well.
1200 Sampled MW-5 needs S/S weight to lower bag in well due to amount of water in the well.
1210 Sampled MW-24 also MW24-a
1220 Sampled MW-7
1230 sampled MW-4 need S/S weight to lower bag in well due to amount of water in the well.
1240 Sampled MW-11
1250 Sampled MW-10D
1300 Sampled MW-10
1310 sampled MW-9D
1320 Sampled MW-9 also MS/MSD
1330 Sampled MW-18
1340 sampled MW-17
1345 purchase ice to pack samples to ship Fed Ex.

LTC Delavan Bamberg SC 10/24/2022

1430 Take Samples to Loading dock on site was told Fed Ex picked up early today - already gone for the day.
1445 Go to Walgreens to ship there - Fed Ex already has been there also - will need to take to Columbia at end of the day.

Back to sampling wells
at MW-13D Sampled
Sampled MW-12D
sampled MW-27
Sampled MW-28
sampled MW-29
Sampled MW-15D1
Sampled MW-15D
sampled MW-15
Sampled MW-16D
Sampled MW-26

1630 Justin off site to Fed Ex Columbia
1635 Randy to empty purge water
1645 Randy off site to motel.
715 at motel

Randy Morgan 10-26-2022

10/20/2022 UTC Delaware Bamberg SC

0700 Purchase ice in Bamberg
0705 on site - Calibrate YSI ProPlus S/N 3731
0740 begin sampling wells out of Hydrasleeve deploy new Hydrasleeve when finished.
0740 sampled MW-31D
0750 Sampled MW-30D also MS/MSD
0800 Sampled MW-22D also duplicate
0810 sampled MW-26D
0820 Sampled MW-25D
0830 Sampled MW- MW320R
0900 Sampled MW-14D also duplicate
0910 Sampled MW-14
0920 Sampled MW-23D
0930 Sampled MW-36D
0940 Sampled MW-34D
0950 Sampled MW-35D
1000 Sampled MW-33D
we were short 2 Hydrasleeve, sampled out of Hydrasleeve without damaging on wells MW-36D & MW-34D and redeployed same bags. per Leslee -
1045 collected IDW-1 from (1) drum we put water into, there are total of 4 drums
1130 off site to ship samples & return equipment.

Randy Mongo 10/20/22

UTC Delaware Bamberg SC 11/15/22

0600 Pick up equipment
0620 leave for UTC Delaware
0845 in Bamberg. Purchase ice
0850 on site calibrate YSI ProPlus
0915 at front office - sign in get badge
0930 at back of Plant, prepare to go inside to sample wells MW-19 20, 37 out of PDBS also redeploy new PDBS
0945 sampled MW-37 Parameters
1000 sampled MW-19 - Parameters
1015 Sampled MW-20 No Parameters
1025 empty ~ 6-8 oz Water IDW into existing drum on site
1030 return badge and leave site
1330 purchase additional ice for Sample coolers
1500 relinquished samples to Fed EX return equipment - had errands to take care of in Columbia today not related to project.

Appendix C

Analytical Data

Laboratory Reports – SGS North America, Inc.
Data Assessment Reports

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

e-Hardcopy 2.0
Automated Report



Technical Report for

Raytheon Technologies

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60656814/TASK 1A

SGS Job Number: FC97

Sampling Dates: 10/25/22 - 10/26/22

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: 95

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

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

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

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FC97

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC97-1	10/26/22	10:30	RMJB	10/27/22	AQ	Ground Water	MW-21D
FC97-2	10/26/22	10:40	RMJB	10/27/22	AQ	Ground Water	MW-2
FC97-3	10/26/22	10:50	RMJB	10/27/22	AQ	Ground Water	MW-21
FC97-4	10/26/22	11:00	RMJB	10/27/22	AQ	Ground Water	MW-3D1
FC97-5	10/26/22	11:10	RMJB	10/27/22	AQ	Ground Water	MW-3D
FC97-6	10/26/22	11:20	RMJB	10/27/22	AQ	Ground Water	MW-3
FC97-7	10/26/22	11:30	RMJB	10/27/22	AQ	Ground Water	MW-1
FC97-8	10/26/22	11:40	RMJB	10/27/22	AQ	Ground Water	MW-8
FC97-9	10/26/22	11:50	RMJB	10/27/22	AQ	Ground Water	MW-8-A
FC97-10	10/26/22	11:40	RMJB	10/27/22	AQ	Ground Water	MW-6
FC97-11	10/26/22	11:50	RMJB	10/27/22	AQ	Ground Water	MW-5
FC97-12	10/26/22	12:00	RMJB	10/27/22	AQ	Ground Water	MW-24

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

Sample Summary
(continued)

Raytheon Technologies

Job No: FC97

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC97-13	10/26/22	12:10	RMJB	10/27/22	AQ	Ground Water	MW-24-A
FC97-14	10/26/22	12:20	RMJB	10/27/22	AQ	Ground Water	MW-7
FC97-15	10/26/22	12:30	RMJB	10/27/22	AQ	Ground Water	MW-4
FC97-16	10/26/22	12:40	RMJB	10/27/22	AQ	Ground Water	MW-11
FC97-17	10/26/22	12:50	RMJB	10/27/22	AQ	Ground Water	MW-10D
FC97-18	10/26/22	13:00	RMJB	10/27/22	AQ	Ground Water	MW-10
FC97-19	10/26/22	13:10	RMJB	10/27/22	AQ	Ground Water	MW-9D
FC97-20	10/26/22	13:20	RMJB	10/27/22	AQ	Ground Water	MW-9
FC97-21	10/26/22	13:30	RMJB	10/27/22	AQ	Ground Water	MW-18
FC97-22	10/26/22	13:40	RMJB	10/27/22	AQ	Ground Water	MW-17
FC97-23	10/25/22	00:00	RMJB	10/27/22	AQ	Trip Blank Water	TRIP BLANK
FC97-24	10/25/22	09:30	RMJB	10/27/22	AQ	Surface Water	SW-05-LC
FC97-25	10/25/22	09:50	RMJB	10/27/22	AQ	Surface Water	SW-01-LC

Sample Summary
(continued)

Raytheon Technologies

Job No: FC97

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC97-26	10/25/22	10:30	RMJB	10/27/22	AQ	Surface Water	SW-02-LC
FC97-27	10/25/22	10:40	RMJB	10/27/22	AQ	Surface Water	SW-03-HMB

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FC97

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date:** 11/15/2022 12:03:48

On 10/27/2022, 26 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC97 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:** V2O2853

Sample(s) FC97-8MS, FC97-8MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Chloroethane are outside control limits.

Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 1,1,2,2-Tetrachloroethane are outside control limits for sample FC97-8MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FC97-22, FC97-6 have surrogates outside control limits.

FC97-6: Sample was not preserved to a pH < 2. Confirmation run for surrogate recoveries.

FC97-7 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-7: Sample was not preserved to a pH < 2.

FC97-8: Sample was not preserved to a pH < 2.

FC97-9: Sample was not preserved to a pH < 2.

FC97-10 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-10: Sample was not preserved to a pH < 2.

FC97-11 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-11: Sample was not preserved to a pH < 2.

FC97-12 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-12: Sample was not preserved to a pH < 2.

FC97-13 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-13: Sample was not preserved to a pH < 2.

FC97-14 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-14: Sample was not preserved to a pH < 2.

FC97-15 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-15: Sample was not preserved to a pH < 2.

FC97-16 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-16: Sample was not preserved to a pH < 2.

FC97-17 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-17: Sample was not preserved to a pH < 2.

FC97-18 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-18: Sample was not preserved to a pH < 2.

FC97-19 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-19: Sample was not preserved to a pH < 2.

FC97-20 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-20: Sample was not preserved to a pH < 2.

FC97-21 for Chloroethane: Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

FC97-21: Sample was not preserved to a pH < 2.

FC97-22: Sample was not preserved to a pH < 2. Confirmation run for surrogate recoveries.

Matrix: AQ **Batch ID:** V2P3619

Sample(s) FA99781-7MS, FA99781-7MSD were used as the QC samples indicated.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FA99781-7MSD. Probable cause is due to sample non-homogeneity.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2P3619

FC97-23: Sample was not preserved to a pH < 2.

FC97-24: Sample was not preserved to a pH < 2.

FC97-25: Sample was not preserved to a pH < 2.

FC97-26: Sample was not preserved to a pH < 2.

FC97-27: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V2P3620

Sample(s) FC97-5MS, FC97-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Bromodichloromethane, Bromoform, Carbon Tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane, Trichloroethylene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.

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

RPD(s) for MSD for Chloroethane, Methyl Chloride, Vinyl Chloride are outside control limits for sample FC97-5MSD. Probable cause is due to sample non-homogeneity.

V2P3620-MB for Methylene Chloride: Suspected laboratory contaminant.

FC97-1: Sample was not preserved to a pH < 2.

FC97-2: Sample was not preserved to a pH < 2.

FC97-3: Sample was not preserved to a pH < 2.

FC97-4: Sample was not preserved to a pH < 2.

FC97-5: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VI2745

Sample(s) FC10-41MS, FC10-41MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 1,2-Dichloroethane, Bromodichloromethane, Chloroform, Dibromochloromethane, Xylene (total) are outside control limits.

Matrix Spike Recovery(s) for 1,2-Dichloroethane, Bromodichloromethane, Chloroform, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,3-Dichloropropene, Trichloroethylene, Xylene (total) are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,2-Dichloroethane, Bromodichloromethane, Chloroform, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,3-Dichloropropene, Trichloroethylene, Xylene (total) are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FC10-41MSD. Probable cause is due to sample non-homogeneity.

FC97-6: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

FC97-8: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

FC97-9: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

FC97-12: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

FC97-13: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

FC97-14: Sample re-analyzed beyond hold time.

FC97-20: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

FC97-22: Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

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.

Summary of Hits

Job Number: FC97
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/25/22 thru 10/26/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC97-1	**MW-21D**					
Tetrachloroethylene [a]		0.81 J	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.71 J	1.0	0.30	ug/l	SW846 8260D
FC97-2	**MW-2**					
Toluene [a]		0.59 J	1.0	0.30	ug/l	SW846 8260D
FC97-3	**MW-21**					
cis-1,2-Dichloroethylene [a]		666	200	55	ug/l	SW846 8260D
Tetrachloroethylene [a]		8320	200	43	ug/l	SW846 8260D
Trichloroethylene [a]		254	200	69	ug/l	SW846 8260D
FC97-4	**MW-3D1**					
No hits reported in this sample.						
FC97-5	**MW-3D**					
1,1-Dichloroethylene [a]		4.7 J	5.0	1.6	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		8.7	5.0	1.4	ug/l	SW846 8260D
Tetrachloroethylene [a]		282	5.0	1.1	ug/l	SW846 8260D
Trichloroethylene [a]		5.2	5.0	1.7	ug/l	SW846 8260D
FC97-6	**MW-3**					
Tetrachloroethylene [b]		58.9	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [b]		1.6	1.0	0.35	ug/l	SW846 8260D
FC97-7	**MW-1**					
cis-1,2-Dichloroethylene [a]		3.0	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		58.0	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		2.0	1.0	0.35	ug/l	SW846 8260D
FC97-8	**MW-8**					
cis-1,2-Dichloroethylene [b]		14.5	2.0	0.55	ug/l	SW846 8260D
Tetrachloroethylene [a]		535	20	4.3	ug/l	SW846 8260D
Trichloroethylene [b]		87.3	2.0	0.69	ug/l	SW846 8260D

Summary of Hits

Job Number: FC97
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/25/22 thru 10/26/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC97-9	**MW-8-A**					
cis-1,2-Dichloroethylene [b]		15.2	2.0	0.55	ug/l	SW846 8260D
Tetrachloroethylene [a]		537	20	4.3	ug/l	SW846 8260D
Trichloroethylene [b]		94.0	2.0	0.69	ug/l	SW846 8260D
FC97-10	**MW-6**					
No hits reported in this sample.						
FC97-11	**MW-5**					
No hits reported in this sample.						
FC97-12	**MW-24**					
cis-1,2-Dichloroethylene [a]		9.1	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [b]		1170	25	5.4	ug/l	SW846 8260D
Trichloroethylene [a]		2.8	1.0	0.35	ug/l	SW846 8260D
FC97-13	**MW-24-A**					
cis-1,2-Dichloroethylene [a]		9.4	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [b]		1200	25	5.4	ug/l	SW846 8260D
Trichloroethylene [a]		2.9	1.0	0.35	ug/l	SW846 8260D
FC97-14	**MW-7**					
No hits reported in this sample.						
FC97-15	**MW-4**					
No hits reported in this sample.						
FC97-16	**MW-11**					
Toluene [a]		0.34 J	1.0	0.30	ug/l	SW846 8260D
FC97-17	**MW-10D**					
Toluene [a]		0.73 J	1.0	0.30	ug/l	SW846 8260D
FC97-18	**MW-10**					
1,1-Dichloroethylene [a]		120	50	16	ug/l	SW846 8260D

Summary of Hits

Job Number: FC97
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/25/22 thru 10/26/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethylene [a]		2830	50	14	ug/l	SW846 8260D
Methylene Chloride [a]		122 J	250	100	ug/l	SW846 8260D
Tetrachloroethylene [a]		181	50	11	ug/l	SW846 8260D
Trichloroethylene [a]		131	50	17	ug/l	SW846 8260D
FC97-19	**MW-9D**					
Toluene [a]		0.59 J	1.0	0.30	ug/l	SW846 8260D
FC97-20	**MW-9**					
cis-1,2-Dichloroethylene [a]		4.8	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [b]		74.3	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		28.8	1.0	0.35	ug/l	SW846 8260D
FC97-21	**MW-18**					
Toluene [a]		0.89 J	1.0	0.30	ug/l	SW846 8260D
FC97-22	**MW-17**					
Toluene [b]		1.7	1.0	0.30	ug/l	SW846 8260D
FC97-23	**TRIP BLANK**					
Toluene [a]		6.6	1.0	0.30	ug/l	SW846 8260D
FC97-24	**SW-05-LC**					
No hits reported in this sample.						
FC97-25	**SW-01-LC**					
Tetrachloroethylene [a]		2.4	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.37 J	1.0	0.30	ug/l	SW846 8260D
FC97-26	**SW-02-LC**					
No hits reported in this sample.						
FC97-27	**SW-03-HMB**					
Chloroform [a]		0.64 J	1.0	0.30	ug/l	SW846 8260D

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

Summary of Hits

Job Number: FC97
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/25/22 thru 10/26/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(b) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-21D		
Lab Sample ID:	FC97-1	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2P94843.D	1	11/02/22 18:43	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.81	1.0	0.22	ug/l	J
108-88-3	Toluene	0.71	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-21D		
Lab Sample ID:	FC97-1	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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	98%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	92%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FC97-2	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2P94845.D	1	11/02/22 19:15	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.59	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-2		
Lab Sample ID:	FC97-2	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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	85%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	90%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-21		
Lab Sample ID:	FC97-3	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2P94847.D	200	11/02/22 19:47	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5000	2000	ug/l	
71-43-2	Benzene	ND	200	62	ug/l	
75-27-4	Bromodichloromethane	ND	200	48	ug/l	
75-25-2	Bromoform	ND	200	81	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	400	ug/l	
75-15-0	Carbon Disulfide	ND	400	110	ug/l	
56-23-5	Carbon Tetrachloride	ND	200	71	ug/l	
108-90-7	Chlorobenzene	ND	200	40	ug/l	
75-00-3	Chloroethane	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	666	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	ND	400	100	ug/l	
75-09-2	Methylene Chloride	ND	1000	400	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1000	200	ug/l	
100-42-5	Styrene	ND	200	44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	60	ug/l	
127-18-4	Tetrachloroethylene	8320	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	254	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:	FC97-3	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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	85%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	90%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-3D1		
Lab Sample ID:	FC97-4	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2P94849.D	1	11/02/22 20:20	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

Report of Analysis

Client Sample ID:	MW-3D1		
Lab Sample ID:	FC97-4	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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	100%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	88%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-3D		
Lab Sample ID:	FC97-5	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2P94851.D	5	11/02/22 20:52	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	50	ug/l	
71-43-2	Benzene	ND	5.0	1.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	10	ug/l	
75-15-0	Carbon Disulfide	ND	10	2.7	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	3.3	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.6	ug/l	
75-35-4	1,1-Dichloroethylene	4.7	5.0	1.6	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	8.7	5.0	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.8	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
74-83-9	Methyl Bromide	ND	25	10	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	5.0	ug/l	
100-42-5	Styrene	ND	5.0	1.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.5	ug/l	
127-18-4	Tetrachloroethylene	282	5.0	1.1	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethylene	5.2	5.0	1.7	ug/l	

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

Report of Analysis

Client Sample ID:	MW-3D		
Lab Sample ID:	FC97-5	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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	85%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FC97-6	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	I752548.D	1	11/12/22 03:53	JL	n/a	n/a	VI2745
Run #2 [b]	2O72288.D	1	11/02/22 13:36	LR	n/a	n/a	V2O2853

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [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	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [d]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform [c]	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane [c]	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane [c]	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	58.9	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	1.6	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-3		
Lab Sample ID:	FC97-6	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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) [c]	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	90%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	73% [e]	79-125%
2037-26-5	Toluene-D8	100%	109%	85-112%
460-00-4	4-Bromofluorobenzene	98%	106%	83-118%

(a) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(b) Sample was not preserved to a pH < 2. Confirmation run for surrogate recoveries.
(c) Associated BS recovery outside control limits low.
(d) Associated CCV outside control limits low.
(e) Outside control limits.

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

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FC97-7	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72289.D	1	11/02/22 14:02	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.0	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	58.0	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	2.0	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:	FC97-7	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	82%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	FC97-8	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	I752549.D	2	11/12/22 04:17	JL	n/a	n/a	VI2745
Run #2 [b]	2O72290.D	20	11/02/22 14:27	LR	n/a	n/a	V2O2853

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/l	
71-43-2	Benzene	ND	2.0	0.62	ug/l	
75-27-4	Bromodichloromethane [c]	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 [d]	ND	4.0	1.3	ug/l	
67-66-3	Chloroform [c]	ND	2.0	0.60	ug/l	
124-48-1	Dibromochloromethane [c]	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 [c]	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	14.5	2.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.71	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	10	4.0	ug/l	
74-87-3	Methyl Chloride	ND	4.0	1.0	ug/l	
75-09-2	Methylene Chloride	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	2.0	0.44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	535 [e]	20	4.3	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	87.3	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:	FC97-8	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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) [c]	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	90%	82%	79-125%
2037-26-5	Toluene-D8	100%	105%	85-112%
460-00-4	4-Bromofluorobenzene	97%	101%	83-118%

(a) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(b) Sample was not preserved to a pH < 2.
(c) Associated BS recovery outside control limits low.
(d) Associated CCV outside control limits low.
(e) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-8-A		
Lab Sample ID:	FC97-9	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	I752550.D	2	11/12/22 04:40	JL	n/a	n/a	VI2745
Run #2 [b]	2O72291.D	20	11/02/22 14:53	LR	n/a	n/a	V2O2853

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	20	ug/l	
71-43-2	Benzene	ND	2.0	0.62	ug/l	
75-27-4	Bromodichloromethane [c]	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 [d]	ND	4.0	1.3	ug/l	
67-66-3	Chloroform [c]	ND	2.0	0.60	ug/l	
124-48-1	Dibromochloromethane [c]	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 [c]	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	15.2	2.0	0.55	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.71	ug/l	
591-78-6	2-Hexanone	ND	20	4.0	ug/l	
74-83-9	Methyl Bromide	ND	10	4.0	ug/l	
74-87-3	Methyl Chloride	ND	4.0	1.0	ug/l	
75-09-2	Methylene Chloride	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	2.0	0.44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	537 [e]	20	4.3	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	94.0	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-A		
Lab Sample ID:	FC97-9	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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) [c]	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	85%	79-125%
2037-26-5	Toluene-D8	99%	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	83-118%

(a) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(b) Sample was not preserved to a pH < 2.
(c) Associated BS recovery outside control limits low.
(d) Associated CCV outside control limits low.
(e) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FC97-10	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72292.D	1	11/02/22 15:18	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FC97-10	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is 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-5		
Lab Sample ID:	FC97-11	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72293.D	1	11/02/22 15:44	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	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-5		
Lab Sample ID:	FC97-11	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-24		
Lab Sample ID:	FC97-12	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72294.D	1	11/02/22 16:10	LR	n/a	n/a	V2O2853
Run #2 [b]	I752551.D	25	11/12/22 05:04	JL	n/a	n/a	VI2745

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	9.1	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	1170 [d]	25	5.4	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	2.8	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-24		
Lab Sample ID:	FC97-12	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	86%	92%	79-125%
2037-26-5	Toluene-D8	102%	99%	85-112%
460-00-4	4-Bromofluorobenzene	94%	97%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(c) Associated Initial Calibration outside control limits (%RSD > 15%); sample is 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-24-A		
Lab Sample ID:	FC97-13	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72295.D	1	11/02/22 16:35	LR	n/a	n/a	V2O2853
Run #2 [b]	I752552.D	25	11/12/22 05:28	JL	n/a	n/a	VI2745

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	9.4	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	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	1200 [d]	25	5.4	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	2.9	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-24-A		
Lab Sample ID:	FC97-13	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	88%	92%	79-125%
2037-26-5	Toluene-D8	102%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	97%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(c) Associated Initial Calibration outside control limits (%RSD > 15%); sample is 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-7		
Lab Sample ID:	FC97-14	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72296.D	1	11/02/22 17:01	LR	n/a	n/a	V2O2853
Run #2 [b]	I752542.D	1	11/12/22 01:32	JL	n/a	n/a	VI2745

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	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 [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-7		
Lab Sample ID:	FC97-14	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	89%	90%	79-125%
2037-26-5	Toluene-D8	100%	100%	85-112%
460-00-4	4-Bromofluorobenzene	94%	97%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample re-analyzed beyond hold time.
(c) Associated Initial Calibration outside control limits (%RSD > 15%); sample is 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-4		
Lab Sample ID:	FC97-15	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72297.D	1	11/02/22 17:27	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FC97-15	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	84%		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 Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FC97-16	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72298.D	1	11/02/22 17:52	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	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-11		
Lab Sample ID:	FC97-16	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		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 Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-10D		
Lab Sample ID:	FC97-17	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72299.D	1	11/02/22 18:18	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	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	0.73	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:	FC97-17	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FC97-18	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72300.D	50	11/02/22 18:44	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	500	ug/l	
71-43-2	Benzene	ND	50	16	ug/l	
75-27-4	Bromodichloromethane	ND	50	12	ug/l	
75-25-2	Bromoform	ND	50	20	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	100	ug/l	
75-15-0	Carbon Disulfide	ND	100	27	ug/l	
56-23-5	Carbon Tetrachloride	ND	50	18	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane [b]	ND	100	33	ug/l	
67-66-3	Chloroform	ND	50	15	ug/l	
124-48-1	Dibromochloromethane	ND	50	14	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	17	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	16	ug/l	
75-35-4	1,1-Dichloroethylene	120	50	16	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2830	50	14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	11	ug/l	
100-41-4	Ethylbenzene	ND	50	18	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
74-83-9	Methyl Bromide	ND	250	100	ug/l	
74-87-3	Methyl Chloride	ND	100	25	ug/l	
75-09-2	Methylene Chloride	122	250	100	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	50	ug/l	
100-42-5	Styrene	ND	50	11	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	15	ug/l	
127-18-4	Tetrachloroethylene	181	50	11	ug/l	
108-88-3	Toluene	ND	50	15	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	12	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	23	ug/l	
79-01-6	Trichloroethylene	131	50	17	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:	FC97-18	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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	50	20	ug/l	
1330-20-7	Xylene (total)	ND	150	36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-9D		
Lab Sample ID:	FC97-19	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72301.D	1	11/02/22 19:09	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	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	0.59	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-9D		
Lab Sample ID:	FC97-19	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	85%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FC97-20	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72302.D	1	11/02/22 19:35	LR	n/a	n/a	V2O2853
Run #2 [b]	I752553.D	2	11/12/22 05:51	JL	n/a	n/a	VI2745

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [c]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.8	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	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	74.3 [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	28.8	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:	FC97-20	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	84%	93%	79-125%
2037-26-5	Toluene-D8	104%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	97%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(c) Associated Initial Calibration outside control limits (%RSD > 15%); sample is 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-18		
Lab Sample ID:	FC97-21	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	2O72303.D	1	11/02/22 20:00	LR	n/a	n/a	V2O2853
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	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	0.89	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	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:	FC97-21	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	83%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated Initial Calibration outside control limits (%RSD > 15%); sample is ND.

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

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	FC97-22	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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]	I752554.D	1	11/12/22 06:15	JL	n/a	n/a	VI2745
Run #2 [b]	2O72304.D	1	11/02/22 20:26	LR	n/a	n/a	V2O2853

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane [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	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [d]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform [c]	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane [c]	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane [c]	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	1.7	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	FC97-22	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/27/22
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) [c]	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	78% [e]	79-125%
2037-26-5	Toluene-D8	100%	103%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	83-118%

(a) Sample was not preserved to a pH < 2. Sample re-analyzed beyond hold time.
(b) Sample was not preserved to a pH < 2. Confirmation run for surrogate recoveries.
(c) Associated BS recovery outside control limits low.
(d) Associated CCV outside control limits low.
(e) Outside control limits.

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC97-23	**Date Sampled:**	10/25/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/27/22
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]	2P94742.D	1	11/01/22 11:14	CF	n/a	n/a	V2P3619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	6.6	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC97-23	**Date Sampled:**	10/25/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

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

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

Report of Analysis

Client Sample ID:	SW-05-LC		
Lab Sample ID:	FC97-24	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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]	2P94758.D	1	11/01/22 15:32	CF	n/a	n/a	V2P3619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	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:	FC97-24	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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	91%		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	95%		83-118%

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

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

Report of Analysis

Client Sample ID:	SW-01-LC		
Lab Sample ID:	FC97-25	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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]	2P94760.D	1	11/01/22 16:04	CF	n/a	n/a	V2P3619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	2.4	1.0	0.22	ug/l	
108-88-3	Toluene	0.37	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:	SW-01-LC		
Lab Sample ID:	FC97-25	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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	91%		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	95%		83-118%

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

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

Report of Analysis

Client Sample ID:	SW-02-LC		
Lab Sample ID:	FC97-26	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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]	2P94762.D	1	11/01/22 16:37	CF	n/a	n/a	V2P3619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	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:	FC97-26	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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	91%		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	96%		83-118%

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

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

Report of Analysis

Client Sample ID:	SW-03-HMB		
Lab Sample ID:	FC97-27	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
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]	2P94764.D	1	11/01/22 17:09	CF	n/a	n/a	V2P3619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	0.64	1.0	0.30	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	

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

J = Indicates 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:	FC97-27	**Date Sampled:**	10/25/22
Matrix:	AQ - Surface Water	**Date Received:**	10/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FC97

AECOM Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
Chain of Custody Number (1):
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	Sample Analysis Requested: TCL VOC,s 8260D	~~TCL SVOC,s (8270E)~~	~~PM 13~~	Quality Assurance Samples: COMMENTS	Cooler ID
(1) MW-21D	26-OCT-2022	1030		X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
(2) MW-2		1040					X			7 DAY HOLDING TIME	
(3) MW-21		1050					X				
(4) MW-3D1		1100					X				
(5) MW-3D		1110					X				
(6) MW-3		1120					X				
(7) MW-1		1130					X				
(8) MW-8		1140					X				
(9) MW-8-a		1140					X				
(10) MW-6		1150					X				
(11) MW-5		1200					X			INITIAL ASSESS	
(12) MW-24		1210					X				
(13) MW-24-a		1210					X			LABEL VERIF	
(14) MW-7		1220					X			1,4 ICTM	
(15) MW-4		1230					X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		10/26/22	1430		10/27/22	930
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 8221 5707 9050 3125
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

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

FC97: Chain of Custody
Page 1 of 3

FC97

AECOM Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
Chain of Custody Number (1):
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	~~TCL SVOC,s (8270E)~~	~~PM 13~~										COMMENTS	Cooler ID
16	MW-11	26-OCT-2022	1240		X		Groundwater	X												ALL VOC'S ARE UNPRESERVED	
17	MW-10D		1250					X												7 DAY HOLDING TIME	
18	MW-10		1300					X													
19	MW-9D		1310					X													
20	MW-9		1320					X													
20	MW-9-MS		1320					X													
20	MW-9-MSD		1320					X													
21	MW-18		1330					X													
22	MW-17		1340					X													
23	TRIP BLANK							X													
24	SW-05-LC	25-OCT-2022	0930		X		Surface water	X													
25	SW-01-LC		0950					X													
26	SW-02-LC		1030					X													
27	SW-03-HMB		1040					X													

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.		10/26/22	1430		10/27/22	930
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 0221 5707 9056 3125
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

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

FC97: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FC97 **Client:** AECOM **Project:** UTC DELAVAN SPRAY TECHNOLOGIES SITE

Date / Time Received: 10/27/2022 9:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 5707 9050 3125

Therm ID: IR 1; **Therm CF:** 0.6; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

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

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SAMUELM Date: 10/27/2022 9:30:00 A Reviewer: _____ Date: _____

FC97: Chain of Custody
Page 3 of 3

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3619-MB	2P94740.D	1	11/01/22	CF	n/a	n/a	V2P3619

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

FC97-23, FC97-24, FC97-25, FC97-26, FC97-27

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: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3619-MB	2P94740.D	1	11/01/22	CF	n/a	n/a	V2P3619

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

FC97-23, FC97-24, FC97-25, FC97-26, FC97-27

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	92%	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	96%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.03	20	ug/l	JN
75-21-8	Ethylene oxide	1.05	29	ug/l	JN
	Total TIC, Volatile		29	ug/l	J

Method Blank Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-MB	2P94815.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC97-1, FC97-2, FC97-3, FC97-4, FC97-5

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 [a]	2.0	5.0	2.0	ug/l	J
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: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-MB	2P94815.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC97-1, FC97-2, FC97-3, FC97-4, FC97-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

(a) Suspected laboratory contaminant.

Method Blank Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O2853-MB	2O72284.D	1	11/02/22	LR	n/a	n/a	V2O2853

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

FC97-7, FC97-8, FC97-9, FC97-10, FC97-11, FC97-12, FC97-13, FC97-14, FC97-15, FC97-16, FC97-17, FC97-18, FC97-19, FC97-20, FC97-21

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: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O2853-MB	2O72284.D	1	11/02/22	LR	n/a	n/a	V2O2853

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

FC97-7, FC97-8, FC97-9, FC97-10, FC97-11, FC97-12, FC97-13, FC97-14, FC97-15, FC97-16, FC97-17, FC97-18, FC97-19, FC97-20, FC97-21

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

Method Blank Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2745-MB	I752535.D	1	11/11/22	JL	n/a	n/a	VI2745

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

FC97-6, FC97-8, FC97-9, FC97-12, FC97-13, FC97-14, FC97-20, FC97-22

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2745-MB	I752535.D	1	11/11/22	JL	n/a	n/a	VI2745

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

FC97-6, FC97-8, FC97-9, FC97-12, FC97-13, FC97-14, FC97-20, FC97-22

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3619-BS	2P94736.D	1	11/01/22	CF	n/a	n/a	V2P3619

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

FC97-23, FC97-24, FC97-25, FC97-26, FC97-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	123	98	50-147
71-43-2	Benzene	25	24.5	98	81-122
75-27-4	Bromodichloromethane	25	25.4	102	79-123
75-25-2	Bromoform	25	25.1	100	66-123
78-93-3	2-Butanone (MEK)	125	117	94	56-143
75-15-0	Carbon Disulfide	25	25.6	102	66-148
56-23-5	Carbon Tetrachloride	25	26.1	104	76-136
108-90-7	Chlorobenzene	25	24.9	100	82-124
75-00-3	Chloroethane	25	23.4	94	62-144
67-66-3	Chloroform	25	24.8	99	80-124
124-48-1	Dibromochloromethane	25	24.1	96	78-122
75-34-3	1,1-Dichloroethane	25	25.7	103	81-122
107-06-2	1,2-Dichloroethane	25	23.9	96	75-125
75-35-4	1,1-Dichloroethylene	25	25.1	100	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.3	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.9	100	76-127
78-87-5	1,2-Dichloropropane	25	23.4	94	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.7	99	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.2	105	80-120
100-41-4	Ethylbenzene	25	25.2	101	81-121
591-78-6	2-Hexanone	125	120	96	61-129
74-83-9	Methyl Bromide	25	24.3	97	59-143
74-87-3	Methyl Chloride	25	22.5	90	50-159
75-09-2	Methylene Chloride	25	21.0	84	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	119	95	66-122
100-42-5	Styrene	25	25.7	103	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.5	98	72-120
127-18-4	Tetrachloroethylene	25	25.3	101	76-135
108-88-3	Toluene	25	24.4	98	80-120
71-55-6	1,1,1-Trichloroethane	25	25.5	102	75-130
79-00-5	1,1,2-Trichloroethane	25	24.0	96	76-119
79-01-6	Trichloroethylene	25	24.5	98	81-126
75-01-4	Vinyl Chloride	25	23.8	95	69-159
1330-20-7	Xylene (total)	75	74.8	100	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3619-BS	2P94736.D	1	11/01/22	CF	n/a	n/a	V2P3619

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

FC97-23, FC97-24, FC97-25, FC97-26, FC97-27

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	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	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-BS	2P94811.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC97-1, FC97-2, FC97-3, FC97-4, FC97-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	118	94	50-147
71-43-2	Benzene	25	23.3	93	81-122
75-27-4	Bromodichloromethane	25	23.4	94	79-123
75-25-2	Bromoform	25	22.9	92	66-123
78-93-3	2-Butanone (MEK)	125	109	87	56-143
75-15-0	Carbon Disulfide	25	23.1	92	66-148
56-23-5	Carbon Tetrachloride	25	22.8	91	76-136
108-90-7	Chlorobenzene	25	23.5	94	82-124
75-00-3	Chloroethane	25	22.4	90	62-144
67-66-3	Chloroform	25	23.3	93	80-124
124-48-1	Dibromochloromethane	25	22.1	88	78-122
75-34-3	1,1-Dichloroethane	25	24.5	98	81-122
107-06-2	1,2-Dichloroethane	25	23.0	92	75-125
75-35-4	1,1-Dichloroethylene	25	23.0	92	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.5	90	76-127
78-87-5	1,2-Dichloropropane	25	22.0	88	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.1	92	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.8	99	80-120
100-41-4	Ethylbenzene	25	23.6	94	81-121
591-78-6	2-Hexanone	125	117	94	61-129
74-83-9	Methyl Bromide	25	22.4	90	59-143
74-87-3	Methyl Chloride	25	20.9	84	50-159
75-09-2	Methylene Chloride	25	22.9	92	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	110	88	66-122
100-42-5	Styrene	25	23.9	96	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	72-120
127-18-4	Tetrachloroethylene	25	23.1	92	76-135
108-88-3	Toluene	25	22.9	92	80-120
71-55-6	1,1,1-Trichloroethane	25	23.4	94	75-130
79-00-5	1,1,2-Trichloroethane	25	23.0	92	76-119
79-01-6	Trichloroethylene	25	23.3	93	81-126
75-01-4	Vinyl Chloride	25	22.7	91	69-159
1330-20-7	Xylene (total)	75	71.1	95	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-BS	2P94811.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC97-1, FC97-2, FC97-3, FC97-4, FC97-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O2853-BS	2O72281.D	1	11/02/22	LR	n/a	n/a	V2O2853

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

FC97-7, FC97-8, FC97-9, FC97-10, FC97-11, FC97-12, FC97-13, FC97-14, FC97-15, FC97-16, FC97-17, FC97-18, FC97-19, FC97-20, FC97-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	125	100	50-147
71-43-2	Benzene	25	22.6	90	81-122
75-27-4	Bromodichloromethane	25	22.5	90	79-123
75-25-2	Bromoform	25	23.7	95	66-123
78-93-3	2-Butanone (MEK)	125	119	95	56-143
75-15-0	Carbon Disulfide	25	22.8	91	66-148
56-23-5	Carbon Tetrachloride	25	25.9	104	76-136
108-90-7	Chlorobenzene	25	24.2	97	82-124
75-00-3	Chloroethane	25	14.4	58*	62-144
67-66-3	Chloroform	25	22.0	88	80-124
124-48-1	Dibromochloromethane	25	22.9	92	78-122
75-34-3	1,1-Dichloroethane	25	23.7	95	81-122
107-06-2	1,2-Dichloroethane	25	23.0	92	75-125
75-35-4	1,1-Dichloroethylene	25	23.8	95	78-137
156-59-2	cis-1,2-Dichloroethylene	25	22.9	92	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.1	92	76-127
78-87-5	1,2-Dichloropropane	25	21.5	86	76-124
10061-01-5	cis-1,3-Dichloropropene	25	22.4	90	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.7	99	80-120
100-41-4	Ethylbenzene	25	23.4	94	81-121
591-78-6	2-Hexanone	125	125	100	61-129
74-83-9	Methyl Bromide	25	26.9	108	59-143
74-87-3	Methyl Chloride	25	22.8	91	50-159
75-09-2	Methylene Chloride	25	20.2	81	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	117	94	66-122
100-42-5	Styrene	25	22.7	91	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	19.8	79	72-120
127-18-4	Tetrachloroethylene	25	24.2	97	76-135
108-88-3	Toluene	25	23.1	92	80-120
71-55-6	1,1,1-Trichloroethane	25	23.2	93	75-130
79-00-5	1,1,2-Trichloroethane	25	22.3	89	76-119
79-01-6	Trichloroethylene	25	23.1	92	81-126
75-01-4	Vinyl Chloride	25	26.3	105	69-159
1330-20-7	Xylene (total)	75	70.1	93	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2O2853-BS	2O72281.D	1	11/02/22	LR	n/a	n/a	V2O2853

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

FC97-7, FC97-8, FC97-9, FC97-10, FC97-11, FC97-12, FC97-13, FC97-14, FC97-15, FC97-16, FC97-17, FC97-18, FC97-19, FC97-20, FC97-21

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	87%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2745-BS	I752533.D	1	11/11/22	JL	n/a	n/a	VI2745

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

FC97-6, FC97-8, FC97-9, FC97-12, FC97-13, FC97-14, FC97-20, FC97-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	121	97	50-147
71-43-2	Benzene	25	20.5	82	81-122
75-27-4	Bromodichloromethane	25	18.6	74*	79-123
75-25-2	Bromoform	25	19.1	76	66-123
78-93-3	2-Butanone (MEK)	125	128	102	56-143
75-15-0	Carbon Disulfide	25	20.3	81	66-148
56-23-5	Carbon Tetrachloride	25	19.5	78	76-136
108-90-7	Chlorobenzene	25	20.5	82	82-124
75-00-3	Chloroethane	25	18.2	73	62-144
67-66-3	Chloroform	25	18.9	76*	80-124
124-48-1	Dibromochloromethane	25	19.2	77*	78-122
75-34-3	1,1-Dichloroethane	25	22.7	91	81-122
107-06-2	1,2-Dichloroethane	25	18.4	74*	75-125
75-35-4	1,1-Dichloroethylene	25	22.0	88	78-137
156-59-2	cis-1,2-Dichloroethylene	25	21.5	86	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.0	88	76-127
78-87-5	1,2-Dichloropropane	25	21.6	86	76-124
10061-01-5	cis-1,3-Dichloropropene	25	19.4	78	75-118
10061-02-6	trans-1,3-Dichloropropene	25	20.5	82	80-120
100-41-4	Ethylbenzene	25	20.6	82	81-121
591-78-6	2-Hexanone	125	112	90	61-129
74-83-9	Methyl Bromide	25	26.8	107	59-143
74-87-3	Methyl Chloride	25	26.9	108	50-159
75-09-2	Methylene Chloride	25	21.4	86	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	117	94	66-122
100-42-5	Styrene	25	20.7	83	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	19.6	78	72-120
127-18-4	Tetrachloroethylene	25	24.9	100	76-135
108-88-3	Toluene	25	20.4	82	80-120
71-55-6	1,1,1-Trichloroethane	25	19.5	78	75-130
79-00-5	1,1,2-Trichloroethane	25	20.8	83	76-119
79-01-6	Trichloroethylene	25	20.5	82	81-126
75-01-4	Vinyl Chloride	25	25.2	101	69-159
1330-20-7	Xylene (total)	75	58.9	79*	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2745-BS	I752533.D	1	11/11/22	JL	n/a	n/a	VI2745

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

FC97-6, FC97-8, FC97-9, FC97-12, FC97-13, FC97-14, FC97-20, FC97-22

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA99781-7MS	2P94774.D	10	11/01/22	CF	n/a	n/a	V2P3619
FA99781-7MSD	2P94776.D	10	11/01/22	CF	n/a	n/a	V2P3619
FA99781-7 [a]	2P94772.D	2	11/01/22	CF	n/a	n/a	V2P3619

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

FC97-23, FC97-24, FC97-25, FC97-26, FC97-27

CAS No.	Compound	FA99781-7 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	50 U		1250	1180	94	1250	1200	96	2	50-147/21
71-43-2	Benzene	2.0 U		250	236	94	250	237	95	0	81-122/14
75-27-4	Bromodichloromethane	2.0 U		250	232	93	250	237	95	2	79-123/19
75-25-2	Bromoform	2.0 U		250	215	86	250	222	89	3	66-123/21
78-93-3	2-Butanone (MEK)	10 U		1250	1160	93	1250	1180	94	2	56-143/18
75-15-0	Carbon Disulfide	4.0 U		250	225	90	250	232	93	3	66-148/23
56-23-5	Carbon Tetrachloride	2.0 U		250	230	92	250	226	90	2	76-136/23
108-90-7	Chlorobenzene	2.0 U		250	237	95	250	239	96	1	82-124/14
75-00-3	Chloroethane	4.0 U		250	230	92	250	250	100	8	62-144/20
67-66-3	Chloroform	2.0 U		250	234	94	250	237	95	1	80-124/15
124-48-1	Dibromochloromethane	2.0 U		250	217	87	250	225	90	4	78-122/19
75-34-3	1,1-Dichloroethane	2.0 U		250	243	97	250	246	98	1	81-122/15
107-06-2	1,2-Dichloroethane	2.0 U		250	229	92	250	233	93	2	75-125/14
75-35-4	1,1-Dichloroethylene	2.0 U		250	229	92	250	238	95	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	83.8		250	323	96	250	328	98	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	3.3		250	233	92	250	240	95	3	76-127/17
78-87-5	1,2-Dichloropropane	2.0 U		250	223	89	250	229	92	3	76-124/14
10061-01-5	cis-1,3-Dichloropropene	2.0 U		250	222	89	250	226	90	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	2.0 U		250	233	93	250	244	98	5	80-120/22
100-41-4	Ethylbenzene	2.0 U		250	234	94	250	241	96	3	81-121/14
591-78-6	2-Hexanone	20 U		1250	1230	98	1250	1210	97	2	61-129/18
74-83-9	Methyl Bromide	10 U		250	159	64	250	201	80	23*	59-143/19
74-87-3	Methyl Chloride	4.0 U		250	200	80	250	225	90	12	50-159/19
75-09-2	Methylene Chloride	10 U		250	231	92	250	238	95	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U		1250	1210	97	1250	1210	97	0	66-122/16
100-42-5	Styrene	2.0 U		250	242	97	250	243	97	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		250	241	96	250	240	96	0	72-120/14
127-18-4	Tetrachloroethylene	2.0 U		250	222	89	250	224	90	1	76-135/16
108-88-3	Toluene	2.0 U		250	234	94	250	236	94	1	80-120/14
71-55-6	1,1,1-Trichloroethane	2.0 U		250	238	95	250	238	95	0	75-130/16
79-00-5	1,1,2-Trichloroethane	2.0 U		250	236	94	250	235	94	0	76-119/14
79-01-6	Trichloroethylene	3.6		250	227	89	250	236	93	4	81-126/15
75-01-4	Vinyl Chloride	12.8		250	239	90	250	264	100	10	69-159/18
1330-20-7	Xylene (total)	6.0 U		750	712	95	750	719	96	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA99781-7MS	2P94774.D	10	11/01/22	CF	n/a	n/a	V2P3619
FA99781-7MSD	2P94776.D	10	11/01/22	CF	n/a	n/a	V2P3619
FA99781-7 [a]	2P94772.D	2	11/01/22	CF	n/a	n/a	V2P3619

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

FC97-23, FC97-24, FC97-25, FC97-26, FC97-27

CAS No.	Surrogate Recoveries	MS	MSD	FA99781-7	Limits
1868-53-7	Dibromofluoromethane	98%	98%	91%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	102%	98%	79-125%
2037-26-5	Toluene-D8	100%	99%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	97%	83-118%

(a) Sample re-analyzed beyond hold time.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC97-8MS	2O72305.D	20	11/02/22	LR	n/a	n/a	V2O2853
FC97-8MSD	2O72306.D	20	11/02/22	LR	n/a	n/a	V2O2853
FC97-8 [a]	2O72290.D	20	11/02/22	LR	n/a	n/a	V2O2853

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

FC97-7, FC97-8, FC97-9, FC97-10, FC97-11, FC97-12, FC97-13, FC97-14, FC97-15, FC97-16, FC97-17, FC97-18, FC97-19, FC97-20, FC97-21

CAS No.	Compound	FC97-8 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		2500	2360	94	2500	2300	92	3	50-147/21
71-43-2	Benzene	ND		500	460	92	500	447	89	3	81-122/14
75-27-4	Bromodichloromethane	ND		500	424	85	500	417	83	2	79-123/19
75-25-2	Bromoform	ND		500	422	84	500	411	82	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		2500	2350	94	2500	2280	91	3	56-143/18
75-15-0	Carbon Disulfide	ND		500	443	89	500	429	86	3	66-148/23
56-23-5	Carbon Tetrachloride	ND		500	419	84	500	482	96	14	76-136/23
108-90-7	Chlorobenzene	ND		500	477	95	500	450	90	6	82-124/14
75-00-3	Chloroethane	ND		500	349	70	500	336	67	4	62-144/20
67-66-3	Chloroform	ND		500	440	88	500	422	84	4	80-124/15
124-48-1	Dibromochloromethane	ND		500	425	85	500	409	82	4	78-122/19
75-34-3	1,1-Dichloroethane	ND		500	471	94	500	450	90	5	81-122/15
107-06-2	1,2-Dichloroethane	ND		500	448	90	500	438	88	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		500	465	93	500	451	90	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	17.4	J	500	483	93	500	460	89	5	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		500	455	91	500	440	88	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		500	427	85	500	410	82	4	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		500	418	84	500	409	82	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		500	449	90	500	436	87	3	80-120/22
100-41-4	Ethylbenzene	ND		500	464	93	500	433	87	7	81-121/14
591-78-6	2-Hexanone	ND		2500	2490	100	2500	2360	94	5	61-129/18
74-83-9	Methyl Bromide	ND		500	488	98	500	550	110	12	59-143/19
74-87-3	Methyl Chloride	ND		500	462	92	500	438	88	5	50-159/19
75-09-2	Methylene Chloride	ND		500	430	86	500	421	84	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	2310	92	2500	2210	88	4	66-122/16
100-42-5	Styrene	ND		500	448	90	500	415	83	8	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	402	80	500	334	67*	18*	72-120/14
127-18-4	Tetrachloroethylene	535		500	1080	109	500	1010	95	7	76-135/16
108-88-3	Toluene	ND		500	463	93	500	431	86	7	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		500	455	91	500	441	88	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		500	447	89	500	418	84	7	76-119/14
79-01-6	Trichloroethylene	98.4		500	582	97	500	554	91	5	81-126/15
75-01-4	Vinyl Chloride	ND		500	574	115	500	536	107	7	69-159/18
1330-20-7	Xylene (total)	ND		1500	1380	92	1500	1300	87	6	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC97-8MS	2O72305.D	20	11/02/22	LR	n/a	n/a	V2O2853
FC97-8MSD	2O72306.D	20	11/02/22	LR	n/a	n/a	V2O2853
FC97-8 [a]	2O72290.D	20	11/02/22	LR	n/a	n/a	V2O2853

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

FC97-7, FC97-8, FC97-9, FC97-10, FC97-11, FC97-12, FC97-13, FC97-14, FC97-15, FC97-16, FC97-17, FC97-18, FC97-19, FC97-20, FC97-21

CAS No.	Surrogate Recoveries	MS	MSD	FC97-8	Limits
1868-53-7	Dibromofluoromethane	96%	98%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	89%	89%	82%	79-125%
2037-26-5	Toluene-D8	99%	97%	105%	85-112%
460-00-4	4-Bromofluorobenzene	99%	92%	101%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC97-5MS	2P94853.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5MSD	2P94855.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5 [a]	2P94851.D	5	11/02/22	CF	n/a	n/a	V2P3620

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

FC97-1, FC97-2, FC97-3, FC97-4, FC97-5

CAS No.	Compound	FC97-5 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		625	610	98	625	584	93	4	50-147/21
71-43-2	Benzene	ND		125	108	86	125	107	86	1	81-122/14
75-27-4	Bromodichloromethane	ND		125	91.6	73*	125	89.6	72*	2	79-123/19
75-25-2	Bromoform	ND		125	75.6	60*	125	71.4	57*	6	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	584	93	625	579	93	1	56-143/18
75-15-0	Carbon Disulfide	ND		125	85.2	68	125	81.1	65*	5	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	92.0	74*	125	89.5	72*	3	76-136/23
108-90-7	Chlorobenzene	ND		125	107	86	125	107	86	0	82-124/14
75-00-3	Chloroethane	ND		125	123	98	125	100	80	21*	62-144/20
67-66-3	Chloroform	ND		125	105	84	125	103	82	2	80-124/15
124-48-1	Dibromochloromethane	ND		125	83.4	67*	125	80.4	64*	4	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	111	89	125	109	87	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	104	83	125	100	80	4	75-125/14
75-35-4	1,1-Dichloroethylene	4.7	J	125	109	83	125	104	79	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	8.7		125	115	85	125	113	83	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	105	84	125	102	82	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	101	81	125	99.3	79	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	91.8	73*	125	88.8	71*	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	103	82	125	102	82	1	80-120/22
100-41-4	Ethylbenzene	ND		125	110	88	125	109	87	1	81-121/14
591-78-6	2-Hexanone	ND		625	610	98	625	598	96	2	61-129/18
74-83-9	Methyl Bromide	ND		125	96.7	77	125	92.0	74	5	59-143/19
74-87-3	Methyl Chloride	ND		125	109	87	125	89.2	71	20*	50-159/19
75-09-2	Methylene Chloride	ND		125	97.7	78	125	96.1	77	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	616	99	625	603	96	2	66-122/16
100-42-5	Styrene	ND		125	106	85	125	106	85	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	108	86	125	109	87	1	72-120/14
127-18-4	Tetrachloroethylene	282		125	369	70* [b]	125	364	66* [b]	1	76-135/16
108-88-3	Toluene	ND		125	107	86	125	107	86	0	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	101	81	125	97.6	78	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	108	86	125	106	85	2	76-119/14
79-01-6	Trichloroethylene	5.2		125	105	80*	125	106	81	1	81-126/15
75-01-4	Vinyl Chloride	ND		125	118	94	125	98.0	78	19*	69-159/18
1330-20-7	Xylene (total)	ND		375	330	88	375	327	87	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC97-5MS	2P94853.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5MSD	2P94855.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5 [a]	2P94851.D	5	11/02/22	CF	n/a	n/a	V2P3620

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

FC97-1, FC97-2, FC97-3, FC97-4, FC97-5

CAS No.	Surrogate Recoveries	MS	MSD	FC97-5	Limits
1868-53-7	Dibromofluoromethane	94%	91%	85%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	99%	79-125%
2037-26-5	Toluene-D8	101%	101%	105%	85-112%
460-00-4	4-Bromofluorobenzene	93%	94%	91%	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: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC10-41MS	I752555.D	10	11/12/22	JL	n/a	n/a	VI2745
FC10-41MSD	I752556.D	10	11/12/22	JL	n/a	n/a	VI2745
FC10-41 [a]	I752547.D	2	11/12/22	JL	n/a	n/a	VI2745

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

FC97-6, FC97-8, FC97-9, FC97-12, FC97-13, FC97-14, FC97-20, FC97-22

CAS No.	Compound	FC10-41 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1230	98	1250	1210	97	2	50-147/21
71-43-2	Benzene	ND		250	204	82	250	205	82	0	81-122/14
75-27-4	Bromodichloromethane	ND		250	188	75*	250	186	74*	1	79-123/19
75-25-2	Bromoform	ND		250	189	76	250	190	76	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	1240	99	1250	1240	99	0	56-143/18
75-15-0	Carbon Disulfide	ND		250	197	79	250	199	80	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	194	78	250	191	76	2	76-136/23
108-90-7	Chlorobenzene	ND		250	205	82	250	206	82	0	82-124/14
75-00-3	Chloroethane	ND		250	185	74	250	182	73	2	62-144/20
67-66-3	Chloroform	ND		250	194	78*	250	192	77*	1	80-124/15
124-48-1	Dibromochloromethane	ND		250	191	76*	250	192	77*	1	78-122/19
75-34-3	1,1-Dichloroethane	ND		250	228	91	250	229	92	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	182	73*	250	183	73*	1	75-125/14
75-35-4	1,1-Dichloroethylene	ND		250	222	89	250	222	89	0	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		250	216	86	250	212	85	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	223	89	250	220	88	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	217	87	250	217	87	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		250	171	68*	250	173	69*	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	197	79*	250	194	78*	2	80-120/22
100-41-4	Ethylbenzene	ND		250	205	82	250	204	82	0	81-121/14
591-78-6	2-Hexanone	ND		1250	1100	88	1250	1110	89	1	61-129/18
74-83-9	Methyl Bromide	ND		250	174	70	250	224	90	25*	59-143/19
74-87-3	Methyl Chloride	ND		250	267	107	250	266	106	0	50-159/19
75-09-2	Methylene Chloride	ND		250	206	82	250	212	85	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	1140	91	1250	1140	91	0	66-122/16
100-42-5	Styrene	ND		250	202	81	250	204	82	1	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	215	86	250	214	86	0	72-120/14
127-18-4	Tetrachloroethylene	ND		250	213	85	250	213	85	0	76-135/16
108-88-3	Toluene	ND		250	203	81	250	206	82	1	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		250	195	78	250	196	78	1	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	207	83	250	208	83	0	76-119/14
79-01-6	Trichloroethylene	89.0		250	287	79*	250	280	76*	2	81-126/15
75-01-4	Vinyl Chloride	ND		250	248	99	250	246	98	1	69-159/18
1330-20-7	Xylene (total)	ND		750	583	78*	750	583	78*	0	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC97
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC10-41MS	I752555.D	10	11/12/22	JL	n/a	n/a	VI2745
FC10-41MSD	I752556.D	10	11/12/22	JL	n/a	n/a	VI2745
FC10-41 [a]	I752547.D	2	11/12/22	JL	n/a	n/a	VI2745

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

FC97-6, FC97-8, FC97-9, FC97-12, FC97-13, FC97-14, FC97-20, FC97-22

CAS No.	Surrogate Recoveries	MS	MSD	FC10-41	Limits
1868-53-7	Dibromofluoromethane	99%	99%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	94%	94%	79-125%
2037-26-5	Toluene-D8	105%	103%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	98%	83-118%

(a) Sample re-analyzed beyond hold time.

* = 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, 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 FC97 were collected from October 25-26, 2022 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.

Volatile Organic Compounds by Method 8260D

Results of VOCs associated with batch VI2745 (MW-17, MW-3, MW-8, MW-8-A, MW-24, MW-24-A, MW-7, and MW-9) were qualified "//h" due to a holding time exceedance.

Detections of toluene in any sample (except Trip Blank) were qualified "/B/T" due to the presence of the analyte in the sample and associated trip blank samples.

Data Summary and Usability

The QC excursions encountered during the validation of this data set did not result in the rejection of any data. Therefore, the data associated with this laboratory batch should be considered compliant and adequate for its intended use.

References

United States Environmental Protection Agency (USEPA), July 2014. *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846)*, *Update V*.

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

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60656814/TASK 1A

SGS Job Number: FC146

Sampling Dates: 10/26/22 - 10/27/22



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: **123**

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

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

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

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how we can serve you better at:
EHS.US.CustomerCare@sgs.com

December 8, 2022

Doria Cullom
AECOM
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615

RE: SGS North America Inc. - Orlando job FC146 Reissue

Dear Ms. Cullom,

The final report for job number FC146 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

Trip Blank data has been added to the report.

SGS North America Inc. - Orlando apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America Inc. - Orlando

Florida ♦ 4405 Vineland Road ♦ Suite C-15 ♦ Orlando, FL 32811 ♦ tel: 407 425-6700 ♦ fax: 407 425-0707

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FC146

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

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							
FC146-1	10/26/22	14:40	RMJB	10/28/22	AQ	Ground Water	MW-13D
FC146-2	10/26/22	14:50	RMJB	10/28/22	AQ	Ground Water	MW-12D
FC146-3	10/26/22	15:00	RMJB	10/28/22	AQ	Ground Water	MW-27
FC146-4	10/26/22	15:10	RMJB	10/28/22	AQ	Ground Water	MW-28
FC146-5	10/26/22	15:20	RMJB	10/28/22	AQ	Ground Water	MW-29
FC146-6	10/26/22	15:30	RMJB	10/28/22	AQ	Ground Water	MW-15D1
FC146-7	10/26/22	15:40	RMJB	10/28/22	AQ	Ground Water	MW-15D
FC146-8	10/26/22	15:50	RMJB	10/28/22	AQ	Ground Water	MW-15
FC146-9	10/26/22	16:00	RMJB	10/28/22	AQ	Ground Water	MW-16D
FC146-10	10/26/22	16:10	RMJB	10/28/22	AQ	Ground Water	MW-16
FC146-11	10/27/22	07:40	RMJB	10/28/22	AQ	Ground Water	MW-31D
FC146-12	10/27/22	07:50	RMJB	10/28/22	AQ	Ground Water	MW-30D

Sample Summary
(continued)

Raytheon Technologies

Job No: FC146

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC146-12D	10/27/22	07:50	RMJB	10/28/22	AQ	Water Dup/MSD	MW-30D
FC146-12S	10/27/22	07:50	RMJB	10/28/22	AQ	Water Matrix Spike	MW-30D
FC146-13	10/27/22	08:00	RMJB	10/28/22	AQ	Ground Water	MW-22D
FC146-14	10/27/22	08:00	RMJB	10/28/22	AQ	Ground Water	MW-22D-A
FC146-15	10/27/22	08:10	RMJB	10/28/22	AQ	Ground Water	MW-26D
FC146-16	10/27/22	08:20	RMJB	10/28/22	AQ	Ground Water	MW-25D
FC146-17	10/27/22	08:30	RMJB	10/28/22	AQ	Ground Water	MW-32DR
FC146-18	10/27/22	09:00	RMJB	10/28/22	AQ	Ground Water	MW-14D
FC146-19	10/27/22	09:00	RMJB	10/28/22	AQ	Ground Water	MW-14D-A
FC146-20	10/27/22	09:10	RMJB	10/28/22	AQ	Ground Water	MW-14
FC146-21	10/27/22	09:20	RMJB	10/28/22	AQ	Ground Water	MW-23D
FC146-22	10/27/22	09:30	RMJB	10/28/22	AQ	Ground Water	MW-36D
FC146-23	10/27/22	09:40	RMJB	10/28/22	AQ	Ground Water	MW-34D

Sample Summary
(continued)

Raytheon Technologies

Job No: FC146

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC146-24	10/27/22	09:50	RMJB	10/28/22	AQ	Ground Water	MW-35D
FC146-25	10/27/22	10:00	RMJB	10/28/22	AQ	Ground Water	MW-33D
FC146-26	10/26/22	00:00	RMJB	10/28/22	AQ	Trip Blank Water	TRIP BLANK
FC146-27	10/27/22	10:45	RMJB	10/28/22	AQ	Ground Water	IDW-1
FC146-28	10/27/22	08:30	RMJB	10/28/22	AQ	Ground Water	MW-32DR-A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Raytheon Technologies **Job No:** FC146

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date:** 11/14/2022 2:51:06 PM

On 10/28/2022, 27 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC146 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:** V2P3620

Sample(s) FC97-5MS, FC97-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Bromodichloromethane, Bromoform, Carbon Tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane, Trichloroethylene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromodichloromethane, Bromoform, Carbon Disulfide, Carbon Tetrachloride, cis-1,3-Dichloropropene, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.
Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for Chloroethane, Methyl Chloride, Vinyl Chloride are outside control limits for sample FC97-5MSD. Probable cause is due to sample non-homogeneity.

V2P3620-MB for Methylene Chloride: Suspected laboratory contaminant.

FC146-1: Sample was not preserved to a pH < 2.

FC146-2: Sample was not preserved to a pH < 2.

FC146-3: Sample was not preserved to a pH < 2.

FC146-4: Sample was not preserved to a pH < 2.

FC146-5: Sample was not preserved to a pH < 2.

FC146-6: Sample was not preserved to a pH < 2.

FC146-7: Sample was not preserved to a pH < 2.

FC146-8: Sample was not preserved to a pH < 2.

FC146-9: Sample was not preserved to a pH < 2.

FC146-10: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V5E1587

Sample(s) FC146-12MS, FC146-12MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 4-Methyl-2-pentanone (MIBK), Acetone, Chloroethane are outside control limits.

Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Probable cause is due to matrix interference.
Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for 4-Methyl-2-pentanone (MIBK), Acetone, Chloroethane, Methyl Chloride are outside control limits for sample FC146-12MSD. Probable cause is due to sample non-homogeneity.

FC146-11: Sample was not preserved to a pH < 2.

FC146-12: Sample was not preserved to a pH < 2.

FC146-13: Sample was not preserved to a pH < 2.

FC146-14: Sample was not preserved to a pH < 2.

FC146-15: Sample was not preserved to a pH < 2.

FC146-16: Sample was not preserved to a pH < 2.

FC146-17: Sample was not preserved to a pH < 2.

FC146-18: Sample was not preserved to a pH < 2.

FC146-19: Sample was not preserved to a pH < 2.

FC146-20: Sample was not preserved to a pH < 2.

FC146-21: Sample was not preserved to a pH < 2.

FC146-22: Sample was not preserved to a pH < 2.

FC146-23: Sample was not preserved to a pH < 2.

FC146-24: Sample was not preserved to a pH < 2.

FC146-25: Sample was not preserved to a pH < 2.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V5E1587

FC146-26: Sample was not preserved to a pH < 2. Confirmation run.

FC146-27: Sample was not preserved to a pH < 2.

FC146-28: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V5E1589

Sample(s) FC10-30MS, FC10-30MSD were used as the QC samples indicated.

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

RPD(s) for MSD for Bromoform are outside control limits for sample FC10-30MSD. Probable cause is due to sample non-homogeneity.

FC146-1: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** V5E1590

Sample(s) FC130-25MS, FC130-25MSD were used as the QC samples indicated.

RPD(s) for MSD for Tetrachloroethylene are outside control limits for sample FC130-25MSD. Probable cause is due to sample non-homogeneity.

FC146-11: Sample was not preserved to a pH < 2.

FC146-16: Sample was not preserved to a pH < 2.

FC146-17: Sample was not preserved to a pH < 2. Confirmation run.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP93812

Sample(s) FC95-1MS, FC95-1MSD were used as the QC samples indicated.

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

For Sample(s) FC146-27 are associated with an CCV that has a recovery for 2,2'-Oxybis(1-chloropropane), 2-Nitroaniline, N-Nitrosodi-n-propylamine outside low control limit.

FC146-27 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.

FC146-27 for N-Nitrosodi-n-propylamine: Associated CCV outside of control limits low.

FC146-27 for 2,2'-Oxybis(1-chloropropane): Associated CCV outside of control limits low.

FC146-27 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.

FC146-27 for 2-Nitroaniline: Associated CCV outside of control limits low.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP41454

Sample(s) FC241-1DUP, FC241-1MS, FC241-1MSD, FC241-1PS, FC241-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony are outside control limits for sample MP41454-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Silver, Zinc are outside control limits for sample MP41454-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP41452

Sample(s) FC173-1DUP, FC173-1MS, FC173-1MSD, FC173-1SDL were used as the QC samples for metals.

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.

Summary of Hits

Job Number: FC146
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/26/22 thru 10/27/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC146-1	**MW-13D**					
1,1-Dichloroethylene [a]		1.8	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		86.9	1.0	0.22	ug/l	SW846 8260D
FC146-2	**MW-12D**					
Tetrachloroethylene [a]		25.9	1.0	0.22	ug/l	SW846 8260D
Toluene [a]		0.40 J	1.0	0.30	ug/l	SW846 8260D
FC146-3	**MW-27**					
Toluene [a]		0.83 J	1.0	0.30	ug/l	SW846 8260D
FC146-4	**MW-28**					
Toluene [a]		0.69 J	1.0	0.30	ug/l	SW846 8260D
FC146-5	**MW-29**					
No hits reported in this sample.						
FC146-6	**MW-15D1**					
Toluene [a]		0.66 J	1.0	0.30	ug/l	SW846 8260D
FC146-7	**MW-15D**					
Toluene [a]		0.80 J	1.0	0.30	ug/l	SW846 8260D
FC146-8	**MW-15**					
Toluene [a]		0.90 J	1.0	0.30	ug/l	SW846 8260D
FC146-9	**MW-16D**					
Toluene [a]		1.1	1.0	0.30	ug/l	SW846 8260D
FC146-10	**MW-16**					
No hits reported in this sample.						
FC146-11	**MW-31D**					
1,1-Dichloroethylene [a]		2.1	1.0	0.32	ug/l	SW846 8260D

Summary of Hits

Job Number: FC146
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/26/22 thru 10/27/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tetrachloroethylene [a]		115	2.0	0.43	ug/l	SW846 8260D
FC146-12	**MW-30D**					
1,1-Dichloroethylene [a]		0.82 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.60 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		67.4	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.79 J	1.0	0.35	ug/l	SW846 8260D
FC146-13	**MW-22D**					
1,1-Dichloroethylene [a]		1.4	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		92.9	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.39 J	1.0	0.35	ug/l	SW846 8260D
FC146-14	**MW-22D-A**					
1,1-Dichloroethylene [a]		0.68 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		75.6	1.0	0.22	ug/l	SW846 8260D
FC146-15	**MW-26D**					
1,1-Dichloroethylene [a]		0.70 J	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.68 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		60.3	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene [a]		0.80 J	1.0	0.35	ug/l	SW846 8260D
FC146-16	**MW-25D**					
1,1-Dichloroethylene [a]		2.0	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene [a]		0.87 J	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		90.1	2.0	0.43	ug/l	SW846 8260D
Trichloroethylene [a]		0.78 J	1.0	0.35	ug/l	SW846 8260D
FC146-17	**MW-32DR**					
Tetrachloroethylene [a]		22.2	1.0	0.22	ug/l	SW846 8260D
FC146-18	**MW-14D**					
1,1-Dichloroethylene [a]		0.93 J	1.0	0.32	ug/l	SW846 8260D
Tetrachloroethylene [a]		68.2	1.0	0.22	ug/l	SW846 8260D

Summary of Hits

Job Number: FC146
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/26/22 thru 10/27/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC146-19	**MW-14D-A**					
Tetrachloroethylene [a]		53.4	1.0	0.22	ug/l	SW846 8260D
FC146-20	**MW-14**					
No hits reported in this sample.						
FC146-21	**MW-23D**					
No hits reported in this sample.						
FC146-22	**MW-36D**					
No hits reported in this sample.						
FC146-23	**MW-34D**					
No hits reported in this sample.						
FC146-24	**MW-35D**					
No hits reported in this sample.						
FC146-25	**MW-33D**					
No hits reported in this sample.						
FC146-26	**TRIP BLANK**					
Toluene [a]		7.6	1.0	0.30	ug/l	SW846 8260D
FC146-27	**IDW-1**					
cis-1,2-Dichloroethylene [a]		5.2	1.0	0.28	ug/l	SW846 8260D
Tetrachloroethylene [a]		5.5	1.0	0.22	ug/l	SW846 8260D
Chromium		3.7 J	10	1.0	ug/l	SW846 6010D
Copper		4.8 J	25	1.0	ug/l	SW846 6010D
Nickel		21.0 J	40	0.40	ug/l	SW846 6010D
Silver		1.3 J	5.0	0.70	ug/l	SW846 6010D
Zinc		33.5	20	4.4	ug/l	SW846 6010D
FC146-28	**MW-32DR-A**					
Tetrachloroethylene [a]		25.7	1.0	0.22	ug/l	SW846 8260D

Summary of Hits

Job Number: FC146
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/26/22 thru 10/27/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-13D
Lab Sample ID: FC146-1
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/26/22
Date Received: 10/28/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5E35173.D	1	11/04/22 13:18	CF	n/a	n/a	V5E1589
Run #2 [a]	2P94823.D	2	11/02/22 13:19	CF	n/a	n/a	V2P3620

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.8	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	86.9	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-13D		
Lab Sample ID:	FC146-1	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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%	90%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	100%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	96%	83-118%

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

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

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

Report of Analysis

Client Sample ID:	MW-12D		
Lab Sample ID:	FC146-2	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94825.D	1	11/02/22 13:51	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	25.9	1.0	0.22	ug/l	
108-88-3	Toluene	0.40	1.0	0.30	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-12D		
Lab Sample ID:	FC146-2	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	91%		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	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-27		
Lab Sample ID:	FC146-3	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94827.D	1	11/02/22 14:23	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.83	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-27		
Lab Sample ID:	FC146-3	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	90%		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	95%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-28		
Lab Sample ID:	FC146-4	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94829.D	1	11/02/22 14:56	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.69	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-28		
Lab Sample ID:	FC146-4	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	88%		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	95%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-29		
Lab Sample ID:	FC146-5	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94831.D	1	11/02/22 15:28	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-29		
Lab Sample ID:	FC146-5	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	88%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-15D1		
Lab Sample ID:	FC146-6	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94833.D	1	11/02/22 16:00	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.66	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-15D1		
Lab Sample ID:	FC146-6	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	90%		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	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-15D		
Lab Sample ID:	FC146-7	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94835.D	1	11/02/22 16:33	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.80	1.0	0.30	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-15D		
Lab Sample ID:	FC146-7	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	89%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	FC146-8	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94837.D	1	11/02/22 17:05	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.90	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-15		
Lab Sample ID:	FC146-8	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	89%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-16D		
Lab Sample ID:	FC146-9	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94839.D	1	11/02/22 17:38	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-16D		
Lab Sample ID:	FC146-9	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	87%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	88%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-16		
Lab Sample ID:	FC146-10	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	2P94841.D	1	11/02/22 18:10	CF	n/a	n/a	V2P3620
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	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-16		
Lab Sample ID:	FC146-10	**Date Sampled:**	10/26/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	87%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	90%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-31D		
Lab Sample ID:	FC146-11	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35109.D	1	11/03/22 11:14	CF	n/a	n/a	V5E1587
Run #2 [a]	5E35196.D	2	11/07/22 11:03	CF	n/a	n/a	V5E1590

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.1	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	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	115 [b]	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	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:	FC146-11	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	95%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-30D		
Lab Sample ID:	FC146-12	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35110.D	1	11/03/22 11:37	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.82	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.60	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	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	67.4	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.79	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-30D		
Lab Sample ID:	FC146-12	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-22D		
Lab Sample ID:	FC146-13	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35111.D	1	11/03/22 12:01	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.4	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	92.9	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.39	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-22D		
Lab Sample ID:	FC146-13	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	95%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-22D-A		
Lab Sample ID:	FC146-14	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35112.D	1	11/03/22 12:24	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.68	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	75.6	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	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:	FC146-14	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	93%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-26D		
Lab Sample ID:	FC146-15	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35113.D	1	11/03/22 12:48	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.70	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.68	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	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	60.3	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.80	1.0	0.35	ug/l	J

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

Report of Analysis

Client Sample ID:	MW-26D		
Lab Sample ID:	FC146-15	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	94%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-25D		
Lab Sample ID:	FC146-16	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35114.D	1	11/03/22 13:11	CF	n/a	n/a	V5E1587
Run #2 [a]	5E35197.D	2	11/07/22 11:26	CF	n/a	n/a	V5E1590

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	2.0	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.87	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	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	90.1 [b]	2.0	0.43	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	0.78	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-25D		
Lab Sample ID:	FC146-16	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	79-125%
2037-26-5	Toluene-D8	100%	98%	85-112%
460-00-4	4-Bromofluorobenzene	92%	95%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-32DR		
Lab Sample ID:	FC146-17	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35115.D	1	11/03/22 13:34	CF	n/a	n/a	V5E1587
Run #2 [b]	5E35195.D	1	11/07/22 10:39	CF	n/a	n/a	V5E1590

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	22.2	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-32DR		
Lab Sample ID:	FC146-17	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	93%	95%	79-125%
2037-26-5	Toluene-D8	100%	99%	85-112%
460-00-4	4-Bromofluorobenzene	92%	97%	83-118%

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

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

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	FC146-18	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35116.D	1	11/03/22 13:58	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.93	1.0	0.32	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	68.2	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	FC146-18	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	94%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-14D-A		
Lab Sample ID:	FC146-19	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35117.D	1	11/03/22 14:21	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	53.4	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

Report of Analysis

Client Sample ID:	MW-14D-A		
Lab Sample ID:	FC146-19	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	95%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	FC146-20	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35118.D	1	11/03/22 14:45	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	FC146-20	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	94%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-23D		
Lab Sample ID:	FC146-21	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35119.D	1	11/03/22 15:09	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-23D		
Lab Sample ID:	FC146-21	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	93%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-36D		
Lab Sample ID:	FC146-22	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35120.D	1	11/03/22 15:32	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

Report of Analysis

Client Sample ID:	MW-36D		
Lab Sample ID:	FC146-22	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	92%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-34D		
Lab Sample ID:	FC146-23	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35121.D	1	11/03/22 15:56	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-34D		
Lab Sample ID:	FC146-23	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	95%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-35D		
Lab Sample ID:	FC146-24	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35122.D	1	11/03/22 16:20	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

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

Report of Analysis

Client Sample ID:	MW-35D		
Lab Sample ID:	FC146-24	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	95%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

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

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

Report of Analysis

Client Sample ID:	MW-33D		
Lab Sample ID:	FC146-25	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35123.D	1	11/03/22 16:43	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	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-33D		
Lab Sample ID:	FC146-25	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC146-26	**Date Sampled:**	10/26/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/28/22
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]	2P94817.D	1	11/02/22 11:41	CF	n/a	n/a	V2P3620
Run #2 [b]	5E35108.D	1	11/03/22 10:50	CF	n/a	n/a	V5E1587

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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	7.6	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC146-26	**Date Sampled:**	10/26/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/28/22
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	91%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	96%	79-125%
2037-26-5	Toluene-D8	102%	100%	85-112%
460-00-4	4-Bromofluorobenzene	95%	95%	83-118%

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

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

Report of Analysis

Client Sample ID:	IDW-1		
Lab Sample ID:	FC146-27	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35124.D	1	11/03/22 17:07	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	5.2	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	5.5	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:	IDW-1		
Lab Sample ID:	FC146-27	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	95%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

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

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

Report of Analysis

Client Sample ID:	IDW-1		
Lab Sample ID:	FC146-27	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I016188.D	1	10/31/22 20:42	KA	10/31/22 06:25	OP93812	S9I574
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	49	9.8	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	4.9	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	0.62	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	0.82	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	0.72	ug/l	
51-28-5	2,4-Dinitrophenol [a]	ND	25	4.9	ug/l	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	9.8	2.0	ug/l	
95-48-7	2-Methylphenol	ND	4.9	0.55	ug/l	
	3&4-Methylphenol	ND	4.9	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.84	ug/l	
100-02-7	4-Nitrophenol	ND	25	4.9	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.9	ug/l	
108-95-2	Phenol	ND	4.9	0.49	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	0.73	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.74	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.61	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.63	ug/l	
120-12-7	Anthracene	ND	4.9	0.78	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.75	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.77	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.76	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.81	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.84	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.60	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	4.9	0.83	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	4.9	0.98	ug/l	
86-74-8	Carbazole	ND	4.9	0.59	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.62	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.9	0.79	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.9	0.72	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane) [b]	ND	4.9	0.74	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.49	ug/l	

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

Report of Analysis

Client Sample ID:	IDW-1		
Lab Sample ID:	FC146-27	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	4.9	0.53	ug/l	
218-01-9	Chrysene	ND	4.9	0.83	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.79	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.59	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.49	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.49	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.9	0.63	ug/l	
84-66-2	Diethyl Phthalate	ND	4.9	0.98	ug/l	
131-11-3	Dimethyl Phthalate	ND	4.9	0.98	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	4.9	0.98	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	4.9	0.98	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	0.80	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	0.70	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.9	0.98	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.54	ug/l	
86-73-7	Fluorene	ND	4.9	0.69	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.68	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.9	1.8	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.70	ug/l	
78-59-1	Isophorone	ND	4.9	0.76	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.59	ug/l	
91-20-3	Naphthalene	ND	4.9	0.49	ug/l	
88-74-4	2-Nitroaniline [b]	ND	4.9	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.86	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.1	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.91	ug/l	
621-64-7	N-Nitrosodi-n-propylamine [b]	ND	4.9	0.66	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.79	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.85	ug/l	
129-00-0	Pyrene	ND	4.9	0.67	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%

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

Report of Analysis

Client Sample ID:	IDW-1		
Lab Sample ID:	FC146-27	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	62%		39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) 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: IDW-1
Lab Sample ID: FC146-27
Matrix: AQ - Ground Water
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 10/27/22
Date Received: 10/28/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.0 U	6.0	1.0	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Arsenic	1.3 U	10	1.3	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Beryllium	0.20 U	4.0	0.20	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Cadmium	0.20 U	5.0	0.20	ug/l	1	11/08/22	11/11/22	LM	SW846 6010D [3]	SW846 3010A [5]
Chromium	3.7 J	10	1.0	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Copper	4.8 J	25	1.0	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Lead	1.1 U	5.0	1.1	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Mercury	0.030 U	0.50	0.030	ug/l	1	11/08/22	11/08/22	JC	SW846 7470A [1]	SW846 7470A [4]
Nickel	21.0 J	40	0.40	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Selenium	2.9 U	10	2.9	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Silver	1.3 J	5.0	0.70	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Thallium	1.4 U	10	1.4	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]
Zinc	33.5	20	4.4	ug/l	1	11/08/22	11/09/22	LM	SW846 6010D [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA19033
(2) Instrument QC Batch: MA19035
(3) Instrument QC Batch: MA19038
(4) Prep QC Batch: MP41452
(5) Prep QC Batch: MP41454

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-A		
Lab Sample ID:	FC146-28	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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]	5E35125.D	1	11/03/22 17:30	CF	n/a	n/a	V5E1587
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	25.7	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-32DR-A		
Lab Sample ID:	FC146-28	**Date Sampled:**	10/27/22
Matrix:	AQ - Ground Water	**Date Received:**	10/28/22
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	92%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

INITIAL ASSESSMENT FC146

AECOM LABEL VERIFICATION

Chain of Custody and Analytical Request

Page 1 of 2
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
1	MW-13D	26-OCT-2022	1440		X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
2	MW-12D		1450					X			7 DAY HOLDING TIME	
3	MW-27		1500					X				
4	MW-28		1510					X				
5	MW-29		1520					X				
6	MW-15D1		1530					X				
7	MW-15D		1540					X				
8	MW-15		1550					X				
9	MW-16D		1600					X				
10	MW-16		1610					X			INITIAL ASSESSMENT	
11	MW-31D	27-OCT-2022	0740					X				
12	MW-30D		0780					X			LABEL VERIFICATION	
2	MW-30D-MS		0750					X				
2	MW-30D-MSD		0750					X				
0	MW-22D		0800					X				

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1.		10/27/22	1200		10/28/22	900
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 0221 5707 9050 3103
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

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

FC146: Chain of Custody
Page 1 of 4

FC146

AECOM

Chain of Custody and Analytical Request

Page 2 of 2
Project Number: 60656814.1a
Chain of Custody Number [1]:
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan / Justin Butler

Project Manager: Leslee Alexander

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	TCL SVOC,s (8270E)	PM 13	COMMENTS	Cooler ID
14	MW-22D-a	27-Oct-2022	0800		X		Groundwater	X			ALL VOC'S ARE UNPRESERVED	
15	MW-26D		0810					X			7 DAY HOLDING TIME	
16	MW-25D		0820					X				
17	MW-32DR		0830					X				
18	MW-14D		0900					X				
19	MW-14D-a		0900					X				
20	MW-14		0910					X				
21	MW-23D		0920					X				
22	MW-36D		0930					X				
23	MW-34D		0940					X				
24	MW-35D		0950					X			INITIAL ASSESSMENT	
25	MW-33D	↓	1000		↓		↓	X				
26	TRIP BLANK							X			LABEL VERIFICATION	
27	IDW-1	27-Oct-2022	1045		X		Groundwater	X	X	X	1,4 CTM1	

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	[signature]	10/27/22	1700	[signature]	10/28/22	9a
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 0211 5769 9050 3103
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

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

FC146: Chain of Custody
Page 2 of 4

SGS Sample Receipt Summary

Job Number: FC146 **Client:** AECOM **Project:** UTC DELAVAN SPRAY TECH SITE

Date / Time Received: 10/28/2022 9:00:00 AM **Delivery Method:** FX **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.6; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

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

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #28 NOT LISTED ON COC (3x 40ml HCL VIALS) ID : "MW-32RD-A" TIME : "0830" DATE : "10/27/22"

Technician: NATHANS Date: 10/28/2022 9:00:00 A Reviewer: _____ Date: _____

SM001
Rev. Date 05/24/17

CSR: Muna Mohammed **Response Date:** 10/31/22

Response: Per client analyze sample MW-32RD-A. Revise ID to MW-32DR-A

SM001
Rev. Date 05/24/17

FC146: Chain of Custody
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MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-MB	2P94815.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC146-1, FC146-2, FC146-3, FC146-4, FC146-5, FC146-6, FC146-7, FC146-8, FC146-9, FC146-10, FC146-26

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
75-09-2	Methylene Chloride [a]	2.0	5.0	2.0	ug/l	J
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: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-MB	2P94815.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC146-1, FC146-2, FC146-3, FC146-4, FC146-5, FC146-6, FC146-7, FC146-8, FC146-9, FC146-10, FC146-26

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	89%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

(a) Suspected laboratory contaminant.

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1587-MB	5E35107.D	1	11/03/22	CF	n/a	n/a	V5E1587

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

FC146-11, FC146-12, FC146-13, FC146-14, FC146-15, FC146-16, FC146-17, FC146-18, FC146-19, FC146-20, FC146-21, FC146-22, FC146-23, FC146-24, FC146-25, FC146-27, FC146-28

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide	ND	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: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1587-MB	5E35107.D	1	11/03/22	CF	n/a	n/a	V5E1587

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

FC146-11, FC146-12, FC146-13, FC146-14, FC146-15, FC146-16, FC146-17, FC146-18, FC146-19, FC146-20, FC146-21, FC146-22, FC146-23, FC146-24, FC146-25, FC146-27, FC146-28

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

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1589-MB	5E35165.D	1	11/04/22	CF	n/a	n/a	V5E1589

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

FC146-1

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: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1589-MB	5E35165.D	1	11/04/22	CF	n/a	n/a	V5E1589

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

FC146-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1590-MB	5E35194.D	1	11/07/22	CF	n/a	n/a	V5E1590

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

FC146-11, FC146-16

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	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	95%	83-118%

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-BS	2P94811.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC146-1, FC146-2, FC146-3, FC146-4, FC146-5, FC146-6, FC146-7, FC146-8, FC146-9, FC146-10, FC146-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	118	94	50-147
71-43-2	Benzene	25	23.3	93	81-122
75-27-4	Bromodichloromethane	25	23.4	94	79-123
75-25-2	Bromoform	25	22.9	92	66-123
78-93-3	2-Butanone (MEK)	125	109	87	56-143
75-15-0	Carbon Disulfide	25	23.1	92	66-148
56-23-5	Carbon Tetrachloride	25	22.8	91	76-136
108-90-7	Chlorobenzene	25	23.5	94	82-124
75-00-3	Chloroethane	25	22.4	90	62-144
67-66-3	Chloroform	25	23.3	93	80-124
124-48-1	Dibromochloromethane	25	22.1	88	78-122
75-34-3	1,1-Dichloroethane	25	24.5	98	81-122
107-06-2	1,2-Dichloroethane	25	23.0	92	75-125
75-35-4	1,1-Dichloroethylene	25	23.0	92	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.5	90	76-127
78-87-5	1,2-Dichloropropane	25	22.0	88	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.1	92	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.8	99	80-120
100-41-4	Ethylbenzene	25	23.6	94	81-121
591-78-6	2-Hexanone	125	117	94	61-129
74-83-9	Methyl Bromide	25	22.4	90	59-143
74-87-3	Methyl Chloride	25	20.9	84	50-159
75-09-2	Methylene Chloride	25	22.9	92	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	110	88	66-122
100-42-5	Styrene	25	23.9	96	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	72-120
127-18-4	Tetrachloroethylene	25	23.1	92	76-135
108-88-3	Toluene	25	22.9	92	80-120
71-55-6	1,1,1-Trichloroethane	25	23.4	94	75-130
79-00-5	1,1,2-Trichloroethane	25	23.0	92	76-119
79-01-6	Trichloroethylene	25	23.3	93	81-126
75-01-4	Vinyl Chloride	25	22.7	91	69-159
1330-20-7	Xylene (total)	75	71.1	95	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2P3620-BS	2P94811.D	1	11/02/22	CF	n/a	n/a	V2P3620

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

FC146-1, FC146-2, FC146-3, FC146-4, FC146-5, FC146-6, FC146-7, FC146-8, FC146-9, FC146-10, FC146-26

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1587-BS	5E35104.D	1	11/03/22	CF	n/a	n/a	V5E1587

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

FC146-11, FC146-12, FC146-13, FC146-14, FC146-15, FC146-16, FC146-17, FC146-18, FC146-19, FC146-20, FC146-21, FC146-22, FC146-23, FC146-24, FC146-25, FC146-27, FC146-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	50-147
71-43-2	Benzene	25	20.7	83	81-122
75-27-4	Bromodichloromethane	25	20.8	83	79-123
75-25-2	Bromoform	25	20.5	82	66-123
78-93-3	2-Butanone (MEK)	125	118	94	56-143
75-15-0	Carbon Disulfide	25	21.1	84	66-148
56-23-5	Carbon Tetrachloride	25	22.8	91	76-136
108-90-7	Chlorobenzene	25	21.0	84	82-124
75-00-3	Chloroethane	25	24.3	97	62-144
67-66-3	Chloroform	25	20.9	84	80-124
124-48-1	Dibromochloromethane	25	19.9	80	78-122
75-34-3	1,1-Dichloroethane	25	21.6	86	81-122
107-06-2	1,2-Dichloroethane	25	20.2	81	75-125
75-35-4	1,1-Dichloroethylene	25	21.2	85	78-137
156-59-2	cis-1,2-Dichloroethylene	25	22.1	88	78-120
156-60-5	trans-1,2-Dichloroethylene	25	20.7	83	76-127
78-87-5	1,2-Dichloropropane	25	20.0	80	76-124
10061-01-5	cis-1,3-Dichloropropene	25	20.0	80	75-118
10061-02-6	trans-1,3-Dichloropropene	25	21.3	85	80-120
100-41-4	Ethylbenzene	25	21.0	84	81-121
591-78-6	2-Hexanone	125	106	85	61-129
74-83-9	Methyl Bromide	25	20.8	83	59-143
74-87-3	Methyl Chloride	25	22.7	91	50-159
75-09-2	Methylene Chloride	25	21.9	88	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	106	85	66-122
100-42-5	Styrene	25	20.5	82	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	20.4	82	72-120
127-18-4	Tetrachloroethylene	25	23.1	92	76-135
108-88-3	Toluene	25	20.3	81	80-120
71-55-6	1,1,1-Trichloroethane	25	21.4	86	75-130
79-00-5	1,1,2-Trichloroethane	25	21.2	85	76-119
79-01-6	Trichloroethylene	25	21.4	86	81-126
75-01-4	Vinyl Chloride	25	24.3	97	69-159
1330-20-7	Xylene (total)	75	61.7	82	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1587-BS	5E35104.D	1	11/03/22	CF	n/a	n/a	V5E1587

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

FC146-11, FC146-12, FC146-13, FC146-14, FC146-15, FC146-16, FC146-17, FC146-18, FC146-19, FC146-20, FC146-21, FC146-22, FC146-23, FC146-24, FC146-25, FC146-27, FC146-28

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1589-BS	5E35162.D	1	11/04/22	CF	n/a	n/a	V5E1589

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

FC146-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	50-147
71-43-2	Benzene	25	21.3	85	81-122
75-27-4	Bromodichloromethane	25	21.0	84	79-123
75-25-2	Bromoform	25	20.0	80	66-123
78-93-3	2-Butanone (MEK)	125	120	96	56-143
75-15-0	Carbon Disulfide	25	22.4	90	66-148
56-23-5	Carbon Tetrachloride	25	22.5	90	76-136
108-90-7	Chlorobenzene	25	20.8	83	82-124
75-00-3	Chloroethane	25	24.1	96	62-144
67-66-3	Chloroform	25	21.2	85	80-124
124-48-1	Dibromochloromethane	25	19.4	78	78-122
75-34-3	1,1-Dichloroethane	25	21.4	86	81-122
107-06-2	1,2-Dichloroethane	25	19.7	79	75-125
75-35-4	1,1-Dichloroethylene	25	21.3	85	78-137
156-59-2	cis-1,2-Dichloroethylene	25	21.1	84	78-120
156-60-5	trans-1,2-Dichloroethylene	25	20.9	84	76-127
78-87-5	1,2-Dichloropropane	25	20.9	84	76-124
10061-01-5	cis-1,3-Dichloropropene	25	20.3	81	75-118
10061-02-6	trans-1,3-Dichloropropene	25	20.7	83	80-120
100-41-4	Ethylbenzene	25	20.9	84	81-121
591-78-6	2-Hexanone	125	107	86	61-129
74-83-9	Methyl Bromide	25	17.6	70	59-143
74-87-3	Methyl Chloride	25	22.9	92	50-159
75-09-2	Methylene Chloride	25	20.2	81	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	106	85	66-122
100-42-5	Styrene	25	20.6	82	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	20.0	80	72-120
127-18-4	Tetrachloroethylene	25	21.6	86	76-135
108-88-3	Toluene	25	20.3	81	80-120
71-55-6	1,1,1-Trichloroethane	25	21.9	88	75-130
79-00-5	1,1,2-Trichloroethane	25	20.6	82	76-119
79-01-6	Trichloroethylene	25	21.5	86	81-126
75-01-4	Vinyl Chloride	25	26.2	105	69-159
1330-20-7	Xylene (total)	75	61.0	81	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1589-BS	5E35162.D	1	11/04/22	CF	n/a	n/a	V5E1589

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

FC146-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	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	94%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1590-BS	5E35191.D	1	11/07/22	CF	n/a	n/a	V5E1590

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

FC146-11, FC146-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethylene	25	25.8	103	76-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	94%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC97-5MS	2P94853.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5MSD	2P94855.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5 [a]	2P94851.D	5	11/02/22	CF	n/a	n/a	V2P3620

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

FC146-1, FC146-2, FC146-3, FC146-4, FC146-5, FC146-6, FC146-7, FC146-8, FC146-9, FC146-10, FC146-26

CAS No.	Compound	FC97-5 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		625	610	98	625	584	93	4	50-147/21
71-43-2	Benzene	ND		125	108	86	125	107	86	1	81-122/14
75-27-4	Bromodichloromethane	ND		125	91.6	73*	125	89.6	72*	2	79-123/19
75-25-2	Bromoform	ND		125	75.6	60*	125	71.4	57*	6	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	584	93	625	579	93	1	56-143/18
75-15-0	Carbon Disulfide	ND		125	85.2	68	125	81.1	65*	5	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	92.0	74*	125	89.5	72*	3	76-136/23
108-90-7	Chlorobenzene	ND		125	107	86	125	107	86	0	82-124/14
75-00-3	Chloroethane	ND		125	123	98	125	100	80	21*	62-144/20
67-66-3	Chloroform	ND		125	105	84	125	103	82	2	80-124/15
124-48-1	Dibromochloromethane	ND		125	83.4	67*	125	80.4	64*	4	78-122/19
75-34-3	1,1-Dichloroethane	ND		125	111	89	125	109	87	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	104	83	125	100	80	4	75-125/14
75-35-4	1,1-Dichloroethylene	4.7	J	125	109	83	125	104	79	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	8.7		125	115	85	125	113	83	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	105	84	125	102	82	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	101	81	125	99.3	79	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	91.8	73*	125	88.8	71*	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	103	82	125	102	82	1	80-120/22
100-41-4	Ethylbenzene	ND		125	110	88	125	109	87	1	81-121/14
591-78-6	2-Hexanone	ND		625	610	98	625	598	96	2	61-129/18
74-83-9	Methyl Bromide	ND		125	96.7	77	125	92.0	74	5	59-143/19
74-87-3	Methyl Chloride	ND		125	109	87	125	89.2	71	20*	50-159/19
75-09-2	Methylene Chloride	ND		125	97.7	78	125	96.1	77	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	616	99	625	603	96	2	66-122/16
100-42-5	Styrene	ND		125	106	85	125	106	85	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	108	86	125	109	87	1	72-120/14
127-18-4	Tetrachloroethylene	282		125	369	70* [b]	125	364	66* [b]	1	76-135/16
108-88-3	Toluene	ND		125	107	86	125	107	86	0	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		125	101	81	125	97.6	78	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	108	86	125	106	85	2	76-119/14
79-01-6	Trichloroethylene	5.2		125	105	80*	125	106	81	1	81-126/15
75-01-4	Vinyl Chloride	ND		125	118	94	125	98.0	78	19*	69-159/18
1330-20-7	Xylene (total)	ND		375	330	88	375	327	87	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC97-5MS	2P94853.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5MSD	2P94855.D	5	11/02/22	CF	n/a	n/a	V2P3620
FC97-5 [a]	2P94851.D	5	11/02/22	CF	n/a	n/a	V2P3620

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

FC146-1, FC146-2, FC146-3, FC146-4, FC146-5, FC146-6, FC146-7, FC146-8, FC146-9, FC146-10, FC146-26

CAS No.	Surrogate Recoveries	MS	MSD	FC97-5	Limits
1868-53-7	Dibromofluoromethane	94%	91%	85%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	99%	79-125%
2037-26-5	Toluene-D8	101%	101%	105%	85-112%
460-00-4	4-Bromofluorobenzene	93%	94%	91%	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: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC146-12MS	5E35128.D	1	11/03/22	CF	n/a	n/a	V5E1587
FC146-12MSD	5E35129.D	1	11/03/22	CF	n/a	n/a	V5E1587
FC146-12 [a]	5E35110.D	1	11/03/22	CF	n/a	n/a	V5E1587

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

FC146-11, FC146-12, FC146-13, FC146-14, FC146-15, FC146-16, FC146-17, FC146-18, FC146-19, FC146-20, FC146-21, FC146-22, FC146-23, FC146-24, FC146-25, FC146-27, FC146-28

CAS No.	Compound	FC146-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	822	658*	125	365	292*	77*	50-147/21
71-43-2	Benzene	ND		25	22.7	91	25	22.6	90	0	81-122/14
75-27-4	Bromodichloromethane	ND		25	22.3	89	25	22.2	89	0	79-123/19
75-25-2	Bromoform	ND		25	22.4	90	25	22.3	89	0	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	139	111	125	121	97	14	56-143/18
75-15-0	Carbon Disulfide	ND		25	24.0	96	25	23.4	94	3	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	23.6	94	25	23.5	94	0	76-136/23
108-90-7	Chlorobenzene	ND		25	22.0	88	25	22.0	88	0	82-124/14
75-00-3	Chloroethane	ND		25	36.7	147*	25	27.7	111	28*	62-144/20
67-66-3	Chloroform	ND		25	23.2	93	25	22.5	90	3	80-124/15
124-48-1	Dibromochloromethane	ND		25	21.2	85	25	20.9	84	1	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	23.8	95	25	23.5	94	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	22.2	89	25	21.7	87	2	75-125/14
75-35-4	1,1-Dichloroethylene	0.82	J	25	26.4	102	25	24.6	95	7	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.60	J	25	25.4	99	25	24.0	94	6	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	22.8	91	25	22.6	90	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	22.1	88	25	21.7	87	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.1	88	25	21.9	88	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.5	98	25	23.6	94	4	80-120/22
100-41-4	Ethylbenzene	ND		25	22.2	89	25	21.7	87	2	81-121/14
591-78-6	2-Hexanone	ND		125	124	99	125	112	90	10	61-129/18
74-83-9	Methyl Bromide	ND		25	23.1	92	25	20.9	84	10	59-143/19
74-87-3	Methyl Chloride	ND		25	24.6	98	25	19.9	80	21*	50-159/19
75-09-2	Methylene Chloride	ND		25	20.8	83	25	20.7	83	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	370	296*	125	148	118	86*	66-122/16
100-42-5	Styrene	ND		25	22.0	88	25	22.3	89	1	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.7	95	25	23.1	92	3	72-120/14
127-18-4	Tetrachloroethylene	67.4		25	111	174* [b]	25	107	158* [b]	4	76-135/16
108-88-3	Toluene	ND		25	25.5	102	25	22.9	92	11	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	23.8	95	25	23.0	92	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	23.2	93	25	22.2	89	4	76-119/14
79-01-6	Trichloroethylene	0.79	J	25	23.5	91	25	23.4	90	0	81-126/15
75-01-4	Vinyl Chloride	ND		25	27.3	109	25	23.7	95	14	69-159/18
1330-20-7	Xylene (total)	ND		75	66.4	89	75	66.5	89	0	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC146-12MS	5E35128.D	1	11/03/22	CF	n/a	n/a	V5E1587
FC146-12MSD	5E35129.D	1	11/03/22	CF	n/a	n/a	V5E1587
FC146-12 [a]	5E35110.D	1	11/03/22	CF	n/a	n/a	V5E1587

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

FC146-11, FC146-12, FC146-13, FC146-14, FC146-15, FC146-16, FC146-17, FC146-18, FC146-19, FC146-20, FC146-21, FC146-22, FC146-23, FC146-24, FC146-25, FC146-27, FC146-28

CAS No.	Surrogate Recoveries	MS	MSD	FC146-12	Limits
1868-53-7	Dibromofluoromethane	101%	101%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	95%	79-125%
2037-26-5	Toluene-D8	99%	101%	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	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: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC10-30MS	5E35186.D	10	11/04/22	CF	n/a	n/a	V5E1589
FC10-30MSD	5E35187.D	10	11/04/22	CF	n/a	n/a	V5E1589
FC10-30 [a]	5E35179.D	2	11/04/22	CF	n/a	n/a	V5E1589

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

FC146-1

CAS No.	Compound	FC10-30 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1250	1290	103	1250	1200	96	7	50-147/21
71-43-2	Benzene	ND		250	243	97	250	237	95	3	81-122/14
75-27-4	Bromodichloromethane	ND		250	231	92	250	235	94	2	79-123/19
75-25-2	Bromoform	ND		250	153	61*	250	200	80	27*	66-123/21
78-93-3	2-Butanone (MEK)	ND		1250	1340	107	1250	1250	100	7	56-143/18
75-15-0	Carbon Disulfide	ND		250	235	94	250	238	95	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		250	262	105	250	251	100	4	76-136/23
108-90-7	Chlorobenzene	ND		250	235	94	250	231	92	2	82-124/14
75-00-3	Chloroethane	ND		250	301	120	250	283	113	6	62-144/20
67-66-3	Chloroform	ND		250	246	98	250	236	94	4	80-124/15
124-48-1	Dibromochloromethane	ND		250	189	76*	250	203	81	7	78-122/19
75-34-3	1,1-Dichloroethane	ND		250	250	100	250	245	98	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		250	236	94	250	230	92	3	75-125/14
75-35-4	1,1-Dichloroethylene	ND		250	246	98	250	242	97	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	11.8		250	267	102	250	258	98	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		250	232	93	250	233	93	0	76-127/17
78-87-5	1,2-Dichloropropane	ND		250	243	97	250	228	91	6	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		250	218	87	250	214	86	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		250	216	86	250	222	89	3	80-120/22
100-41-4	Ethylbenzene	ND		250	232	93	250	227	91	2	81-121/14
591-78-6	2-Hexanone	ND		1250	1180	94	1250	1080	86	9	61-129/18
74-83-9	Methyl Bromide	ND		250	159	64	250	174	70	9	59-143/19
74-87-3	Methyl Chloride	ND		250	241	96	250	237	95	2	50-159/19
75-09-2	Methylene Chloride	7.5	J	250	257	100	250	257	100	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1250	1190	95	1250	1110	89	7	66-122/16
100-42-5	Styrene	ND		250	239	96	250	232	93	3	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	247	99	250	238	95	4	72-120/14
127-18-4	Tetrachloroethylene	ND		250	247	99	250	239	96	3	76-135/16
108-88-3	Toluene	ND		250	224	90	250	221	88	1	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		250	247	99	250	248	99	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		250	233	93	250	223	89	4	76-119/14
79-01-6	Trichloroethylene	134		250	404	108	250	380	98	6	81-126/15
75-01-4	Vinyl Chloride	ND		250	283	113	250	267	107	6	69-159/18
1330-20-7	Xylene (total)	ND		750	684	91	750	674	90	1	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC10-30MS	5E35186.D	10	11/04/22	CF	n/a	n/a	V5E1589
FC10-30MSD	5E35187.D	10	11/04/22	CF	n/a	n/a	V5E1589
FC10-30 [a]	5E35179.D	2	11/04/22	CF	n/a	n/a	V5E1589

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

FC146-1

CAS No.	Surrogate Recoveries	MS	MSD	FC10-30	Limits
1868-53-7	Dibromofluoromethane	102%	99%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	96%	79-125%
2037-26-5	Toluene-D8	96%	97%	99%	85-112%
460-00-4	4-Bromofluorobenzene	94%	92%	98%	83-118%

(a) Sample re-analyzed beyond hold time.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC130-25MS	5E35216.D	200	11/07/22	CF	n/a	n/a	V5E1590
FC130-25MSD	5E35217.D	200	11/07/22	CF	n/a	n/a	V5E1590
FC130-25 [a]	5E35211.D	200	11/07/22	CF	n/a	n/a	V5E1590

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

FC146-11, FC146-16

CAS No.	Compound	FC130-25 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		5000	4490	90	5000	5330	107	17*	76-135/16

CAS No.	Surrogate Recoveries	MS	MSD	FC130-25	Limits
1868-53-7	Dibromofluoromethane	98%	104%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	94%	95%	79-125%
2037-26-5	Toluene-D8	97%	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	92%	91%	90%	83-118%

(a) Confirmation run.

* = Outside of Control Limits.

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-MB	9I016169.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	50	10	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.59	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.63	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.84	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.74	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.56	ug/l	
	3&4-Methylphenol	ND	5.0	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.85	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.75	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.63	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.64	ug/l	
120-12-7	Anthracene	ND	5.0	0.80	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.76	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.78	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.78	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.82	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.86	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	0.61	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.85	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.60	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.81	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.73	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	5.0	0.76	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.54	ug/l	
218-01-9	Chrysene	ND	5.0	0.85	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.80	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.60	ug/l	

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-MB	9I016169.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.64	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.0	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.81	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.71	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.55	ug/l	
86-73-7	Fluorene	ND	5.0	0.70	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.69	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.50	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.8	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.71	ug/l	
78-59-1	Isophorone	ND	5.0	0.78	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.60	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.8	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.88	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.2	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.93	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.67	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.81	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.86	ug/l	
129-00-0	Pyrene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	23%	14-67%
4165-62-2	Phenol-d5	15%	10-50%

Method Blank Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-MB	9I016169.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	70%	33-118%
4165-60-0	Nitrobenzene-d5	49%	42-108%
321-60-8	2-Fluorobiphenyl	51%	40-106%
1718-51-0	Terphenyl-d14	72%	39-121%

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-BS	9I016168.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	36.3	36	10-69
59-50-7	4-Chloro-3-methyl Phenol	50	33.8	68	54-103
95-57-8	2-Chlorophenol	50	30.4	61	52-98
120-83-2	2,4-Dichlorophenol	50	36.2	72	53-103
105-67-9	2,4-Dimethylphenol	50	28.3	57	43-90
51-28-5	2,4-Dinitrophenol	100	107	107	44-112
534-52-1	4,6-Dinitro-o-cresol	100	104	104	66-121
95-48-7	2-Methylphenol	50	23.6	47	43-90
	3&4-Methylphenol	100	45.1	45	36-88
88-75-5	2-Nitrophenol	50	44.1	88	53-102
100-02-7	4-Nitrophenol	100	27.9	28	18-62
87-86-5	Pentachlorophenol	100	81.3	81	61-115
108-95-2	Phenol	50	12.9	26	19-56
95-95-4	2,4,5-Trichlorophenol	50	37.9	76	62-109
88-06-2	2,4,6-Trichlorophenol	50	40.0	80	59-107
83-32-9	Acenaphthene	50	32.7	65	61-107
208-96-8	Acenaphthylene	50	34.8	70	60-104
120-12-7	Anthracene	50	34.5	69	65-108
56-55-3	Benzo(a)anthracene	50	37.7	75	66-111
50-32-8	Benzo(a)pyrene	50	36.0	72	62-107
205-99-2	Benzo(b)fluoranthene	50	37.1	74	65-114
191-24-2	Benzo(g,h,i)perylene	50	38.1	76	66-116
207-08-9	Benzo(k)fluoranthene	50	38.2	76	65-114
100-51-6	Benzyl Alcohol	50	25.5	51	46-94
101-55-3	4-Bromophenyl Phenyl Ether	50	38.3	77	65-109
85-68-7	Butyl Benzyl Phthalate	50	42.5	85	65-112
86-74-8	Carbazole	50	34.9	70	59-113
106-47-8	4-Chloroaniline	50	32.2	64	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	33.1	66	51-102
111-44-4	bis(2-Chloroethyl)ether	50	31.6	63	53-100
108-60-1	2,2'-Oxybis(1-chloropropane)	50	26.1	52	45-106
91-58-7	2-Chloronaphthalene	50	33.1	66	57-103
7005-72-3	4-Chlorophenyl Phenyl Ether	50	37.0	74	62-105
218-01-9	Chrysene	50	36.6	73	66-111
53-70-3	Dibenzo(a,h)anthracene	50	40.4	81	66-119
132-64-9	Dibenzofuran	50	34.5	69	61-106

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-BS	9I016168.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	31.1	62	48-97
541-73-1	1,3-Dichlorobenzene	50	30.4	61	45-95
106-46-7	1,4-Dichlorobenzene	50	30.5	61	45-98
91-94-1	3,3'-Dichlorobenzidine	50	41.3	83	46-117
84-66-2	Diethyl Phthalate	50	39.7	79	64-108
131-11-3	Dimethyl Phthalate	50	38.7	77	63-106
84-74-2	Di-n-butyl Phthalate	50	38.6	77	65-107
117-84-0	Di-n-octyl Phthalate	50	53.1	106	62-118
121-14-2	2,4-Dinitrotoluene	50	42.0	84	61-110
606-20-2	2,6-Dinitrotoluene	50	41.1	82	63-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.3	89	61-117
206-44-0	Fluoranthene	50	36.2	72	63-106
86-73-7	Fluorene	50	36.1	72	62-108
118-74-1	Hexachlorobenzene	50	37.4	75	63-108
87-68-3	Hexachlorobutadiene	50	33.7	67	42-102
77-47-4	Hexachlorocyclopentadiene	50	34.2	68	39-102
67-72-1	Hexachloroethane	50	30.7	61	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.9	84	64-119
78-59-1	Isophorone	50	31.7	63	43-87
91-57-6	2-Methylnaphthalene	50	33.6	67	51-102
91-20-3	Naphthalene	50	31.7	63	47-100
88-74-4	2-Nitroaniline	50	37.9	76	54-128
99-09-2	3-Nitroaniline	50	34.2	68	56-106
100-01-6	4-Nitroaniline	50	33.1	66	55-120
98-95-3	Nitrobenzene	50	31.1	62	50-104
621-64-7	N-Nitrosodi-n-propylamine	50	29.6	59	52-104
86-30-6	N-Nitrosodiphenylamine	50	33.7	67	64-108
85-01-8	Phenanthrene	50	34.4	69	66-110
129-00-0	Pyrene	50	35.9	72	64-113
120-82-1	1,2,4-Trichlorobenzene	50	33.0	66	45-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	31%	14-67%
4165-62-2	Phenol-d5	21%	10-50%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-BS	9I016168.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	79%	33-118%
4165-60-0	Nitrobenzene-d5	59%	42-108%
321-60-8	2-Fluorobiphenyl	62%	40-106%
1718-51-0	Terphenyl-d14	69%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-MS	9I016190.D	1	10/31/22	KA	10/31/22	OP93812	S9I574
OP93812-MSD	9I016191.D	1	10/31/22	KA	10/31/22	OP93812	S9I574
FC95-1	9I016183.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Compound	FC95-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		196	90.8	46	196	97.8	50	7	10-69/39
59-50-7	4-Chloro-3-methyl Phenol	ND		98	69.1	70	98	70.2	72	2	54-103/23
95-57-8	2-Chlorophenol	ND		98	61.6	63	98	60.8	62	1	52-98/25
120-83-2	2,4-Dichlorophenol	ND		98	71.2	73	98	70.3	72	1	53-103/26
105-67-9	2,4-Dimethylphenol	ND		98	56.5	58	98	56.9	58	1	43-90/27
51-28-5	2,4-Dinitrophenol	ND		196	203	104	196	207	106	2	44-112/25
534-52-1	4,6-Dinitro-o-cresol	ND		196	194	99	196	197	100	2	66-121/23
95-48-7	2-Methylphenol	ND		98	51.5	53	98	52.4	53	2	43-90/28
	3&4-Methylphenol	ND		196	102	52	196	104	53	2	36-88/28
88-75-5	2-Nitrophenol	ND		98	84.1	86	98	82.2	84	2	53-102/29
100-02-7	4-Nitrophenol	ND		196	75.0	38	196	84.5	43	12	18-62/33
87-86-5	Pentachlorophenol	ND		196	156	80	196	157	80	1	61-115/26
108-95-2	Phenol	ND		98	32.5	33	98	34.8	35	7	19-56/35
95-95-4	2,4,5-Trichlorophenol	ND		98	70.1	72	98	71.4	73	2	62-109/22
88-06-2	2,4,6-Trichlorophenol	ND		98	75.5	77	98	76.5	78	1	59-107/23
83-32-9	Acenaphthene	ND		98	62.1	63	98	64.3	66	3	61-107/22
208-96-8	Acenaphthylene	ND		98	65.0	66	98	67.6	69	4	60-104/22
120-12-7	Anthracene	ND		98	62.9	64*	98	65.3	67	4	65-108/20
56-55-3	Benzo(a)anthracene	ND		98	69.1	70	98	72.0	73	4	66-111/22
50-32-8	Benzo(a)pyrene	ND		98	65.3	67	98	67.6	69	3	62-107/23
205-99-2	Benzo(b)fluoranthene	ND		98	67.4	69	98	71.6	73	6	65-114/23
191-24-2	Benzo(g,h,i)perylene	ND		98	67.7	69	98	70.6	72	4	66-116/23
207-08-9	Benzo(k)fluoranthene	ND		98	69.3	71	98	73.9	75	6	65-114/24
100-51-6	Benzyl Alcohol	ND		98	54.8	56	98	57.0	58	4	46-94/27
101-55-3	4-Bromophenyl Phenyl Ether	ND		98	69.4	71	98	72.7	74	5	65-109/23
85-68-7	Butyl Benzyl Phthalate	ND		98	78.5	80	98	82.3	84	5	65-112/24
86-74-8	Carbazole	ND		98	63.5	65	98	66.8	68	5	59-113/21
106-47-8	4-Chloroaniline	ND		98	57.1	58	98	57.4	59	1	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	ND		98	65.1	66	98	64.5	66	1	51-102/28
111-44-4	bis(2-Chloroethyl)ether	ND		98	62.7	64	98	61.8	63	1	53-100/27
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		98	52.6	54	98	50.9	52	3	45-106/26
91-58-7	2-Chloronaphthalene	ND		98	63.1	64	98	65.0	66	3	57-103/23
7005-72-3	4-Chlorophenyl Phenyl Ether	ND		98	68.3	70	98	70.7	72	3	62-105/20
218-01-9	Chrysene	ND		98	65.8	67	98	69.4	71	5	66-111/22
53-70-3	Dibenzo(a,h)anthracene	ND		98	73.3	75	98	77.1	79	5	66-119/24
132-64-9	Dibenzofuran	ND		98	65.0	66	98	68.4	70	5	61-106/21

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-MS	9I016190.D	1	10/31/22	KA	10/31/22	OP93812	S9I574
OP93812-MSD	9I016191.D	1	10/31/22	KA	10/31/22	OP93812	S9I574
FC95-1	9I016183.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Compound	FC95-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		98	60.9	62	98	61.3	63	1	48-97/24
541-73-1	1,3-Dichlorobenzene	ND		98	60.0	61	98	60.2	61	0	45-95/25
106-46-7	1,4-Dichlorobenzene	ND		98	60.0	61	98	60.2	61	0	45-98/25
91-94-1	3,3'-Dichlorobenzidine	ND		98	67.7	69	98	72.0	73	6	46-117/29
84-66-2	Diethyl Phthalate	ND		98	74.2	76	98	76.8	78	3	64-108/21
131-11-3	Dimethyl Phthalate	ND		98	71.5	73	98	74.5	76	4	63-106/22
84-74-2	Di-n-butyl Phthalate	ND		98	71.3	73	98	73.5	75	3	65-107/21
117-84-0	Di-n-octyl Phthalate	ND		98	101	103	98	103	105	2	62-118/24
121-14-2	2,4-Dinitrotoluene	ND		98	77.2	79	98	81.5	83	5	61-110/21
606-20-2	2,6-Dinitrotoluene	ND		98	75.1	77	98	78.3	80	4	63-108/21
117-81-7	bis(2-Ethylhexyl)phthalate	ND		98	82.4	84	98	84.7	86	3	61-117/23
206-44-0	Fluoranthene	ND		98	65.4	67	98	68.3	70	4	63-106/21
86-73-7	Fluorene	ND		98	67.3	69	98	69.7	71	4	62-108/20
118-74-1	Hexachlorobenzene	ND		98	68.3	70	98	70.1	72	3	63-108/22
87-68-3	Hexachlorobutadiene	ND		98	69.3	71	98	69.7	71	1	42-102/28
77-47-4	Hexachlorocyclopentadiene	ND		98	68.3	70	98	69.2	71	1	39-102/29
67-72-1	Hexachloroethane	ND		98	64.5	66	98	64.5	66	0	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	ND		98	76.0	78	98	79.4	81	4	64-119/24
78-59-1	Isophorone	ND		98	61.9	63	98	61.7	63	0	43-87/25
91-57-6	2-Methylnaphthalene	ND		98	65.3	67	98	65.8	67	1	51-102/26
91-20-3	Naphthalene	ND		98	61.8	63	98	61.6	63	0	47-100/29
88-74-4	2-Nitroaniline	ND		98	74.1	76	98	76.8	78	4	54-128/24
99-09-2	3-Nitroaniline	ND		98	60.7	62	98	63.7	65	5	56-106/27
100-01-6	4-Nitroaniline	ND		98	60.1	61	98	64.3	66	7	55-120/24
98-95-3	Nitrobenzene	ND		98	62.3	64	98	61.8	63	1	50-104/28
621-64-7	N-Nitrosodi-n-propylamine	ND		98	58.4	60	98	57.6	59	1	52-104/25
86-30-6	N-Nitrosodiphenylamine	ND		98	62.3	64	98	64.3	66	3	64-108/23
85-01-8	Phenanthrene	ND		98	64.1	65*	98	66.5	68	4	66-110/21
129-00-0	Pyrene	ND		98	65.7	67	98	68.6	70	4	64-113/23
120-82-1	1,2,4-Trichlorobenzene	ND		98	66.7	68	98	66.6	68	0	45-97/28

CAS No.	Surrogate Recoveries	MS	MSD	FC95-1	Limits
367-12-4	2-Fluorophenol	37%	39%	24%	14-67%
4165-62-2	Phenol-d5	28%	30%	20%	10-50%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC146
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93812-MS	9I016190.D	1	10/31/22	KA	10/31/22	OP93812	S9I574
OP93812-MSD	9I016191.D	1	10/31/22	KA	10/31/22	OP93812	S9I574
FC95-1	9I016183.D	1	10/31/22	KA	10/31/22	OP93812	S9I574

The QC reported here applies to the following samples: **Method:** SW846 8270E

FC146-27

CAS No.	Surrogate Recoveries	MS	MSD	FC95-1	Limits
118-79-6	2,4,6-Tribromophenol	74%	75%	71%	33-118%
4165-60-0	Nitrobenzene-d5	60%	59%	53%	42-108%
321-60-8	2-Fluorobiphenyl	59%	61%	55%	40-106%
1718-51-0	Terphenyl-d14	62%	65%	51%	39-121%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41452 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/08/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.50	.03	.03	-0.033	<0.50

Associated samples MP41452: FC146-27

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: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41452 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/08/22 11/08/22

Metal	FC173-1 Original	DUP	RPD	QC Limits	FC173-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	2.8	3	93.3	80-120

Associated samples MP41452: FC146-27

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: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41452 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/08/22

Metal	FC173-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.9	3	96.7	3.5	20

Associated samples MP41452: FC146-27

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: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41452 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/08/22

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	80-120

Associated samples MP41452: FC146-27

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41452 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/08/22

Metal	FC173-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP41452: FC146-27

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41454
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/08/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1	0.80	<6.0
Arsenic	10	1.3	1.3	-1.5	<10
Barium	200	.5	1		
Beryllium	4.0	.1	.2	-0.10	<4.0
Boron	100	5	10		
Cadmium	5.0	.1	.2	-0.10	<5.0
Calcium	1000	50	50		
Chromium	10	.5	1	0.30	<10
Cobalt	50	.2	.2		
Copper	25	1	1	0.0	<25
Iron	300	15	17		
Lead	5.0	1	1.1	-0.10	<5.0
Magnesium	5000	35	35		
Manganese	15	.25	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4	-0.30	<40
Potassium	10000	100	200		
Selenium	10	2	2.9	1.0	<10
Silver	10	.5	.7	1.5	<10
Sodium	10000	250	500		
Strontium	10	.25	.5		
Thallium	10	1	1.4	-0.10	<10
Tin	50	.5	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4	1.7	<20

Associated samples MP41454: FC146-27

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: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41454
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:			11/08/22					11/08/22	
Metal	FC241-1 Original	DUP	RPD	QC Limits	FC241-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	1.1	200.0(a)	0-20	0.0	512	500	102.4	80-120
Arsenic	0.0	0.0	NC	0-20	0.0	1980	2000	99.0	80-120
Barium	anr								
Beryllium	0.0	0.0	NC	0-20	0.0	51.8	50	103.6	80-120
Boron									
Cadmium	0.0	0.0	NC	0-20	0.0	49.8	50	99.6	80-120
Calcium									
Chromium	0.0	0.0	NC	0-20	0.0	201	200	100.5	80-120
Cobalt									
Copper	0.0	0.0	NC	0-20	0.0	263	250	105.2	80-120
Iron									
Lead	0.0	0.0	NC	0-20	0.0	473	500	94.6	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	0.0	0.0	NC	0-20	0.0	516	500	103.2	80-120
Potassium									
Selenium	0.0	0.0	NC	0-20	0.0	2080	2000	104.0	80-120
Silver	1.4	1.3	7.4	0-20	1.4	43.1	50	83.4	80-120
Sodium									
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	1880	2000	94.0	80-120
Tin									
Titanium									
Vanadium									
Zinc	3.8	3.9	2.6	0-20	3.8	506	500	100.4	80-120

Associated samples MP41454: FC146-27

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41454
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/08/22

Metal	FC241-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	523	500	104.6	2.1	20
Arsenic	0.0	2030	2000	101.5	2.5	20
Barium	anr					
Beryllium	0.0	52.6	50	105.2	1.5	20
Boron						
Cadmium	0.0	50.1	50	100.2	0.6	20
Calcium						
Chromium	0.0	206	200	103.0	2.5	20
Cobalt						
Copper	0.0	266	250	106.4	1.1	20
Iron						
Lead	0.0	485	500	97.0	2.5	20
Magnesium						
Manganese						
Molybdenum						
Nickel	0.0	531	500	106.2	2.9	20
Potassium						
Selenium	0.0	2120	2000	106.0	1.9	20
Silver	1.4	44.2	50	85.6	2.5	20
Sodium						
Strontium						
Thallium	0.0	1920	2000	96.0	2.1	20
Tin						
Titanium						
Vanadium						
Zinc	3.8	518	500	102.8	2.3	20

Associated samples MP41454: FC146-27

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: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41454
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/08/22

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	501	500	100.2	80-120
Arsenic	1950	2000	97.5	80-120
Barium	anr			
Beryllium	49.7	50	99.4	80-120
Boron				
Cadmium	50.5	50	101.0	80-120
Calcium				
Chromium	200	200	100.0	80-120
Cobalt				
Copper	251	250	100.4	80-120
Iron				
Lead	468	500	93.6	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	513	500	102.6	80-120
Potassium				
Selenium	1990	2000	99.5	80-120
Silver	42.0	50	84.0	80-120
Sodium				
Strontium				
Thallium	1900	2000	95.0	80-120
Tin				
Titanium				
Vanadium				
Zinc	494	500	98.8	80-120

Associated samples MP41454: FC146-27

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41454
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/08/22

Metal	FC241-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	0.00	0.00	NC	0-10
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	1.40	6.70	378.6(a)	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium				
Zinc	3.80	0.00	100.0(a)	0-10

Associated samples MP41454: FC146-27

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FC146
Account: UTC - Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

QC Batch ID: MP41454
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 11/08/22

Metal	Sample ml	Final ml	FC241-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			108.6	0.2	5	100	108.6	80-120
Arsenic	9.8	10			103.2	0.2	5	100	103.2	80-120
Barium										
Beryllium	9.8	10			53.8	0.2	2.5	50	107.6	80-120
Boron										
Cadmium	9.8	10			52	0.2	2.5	50	104.0	80-120
Calcium										
Chromium	9.8	10			53.2	0.2	2.5	50	106.4	80-120
Cobalt										
Copper	9.8	10			108.2	0.2	5	100	108.2	80-120
Iron										
Lead	9.8	10			46.7	0.2	2.5	50	93.4	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10			109.2	0.2	5	100	109.2	80-120
Potassium										
Selenium	9.8	10			107	0.2	5	100	107.0	80-120
Silver	9.8	10	1.4	1.372	51.2	0.2	2.5	50	99.7	80-120
Sodium										
Strontium										
Thallium	9.8	10			95.6	0.2	5	100	95.6	80-120
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	3.8	3.724	266.2	0.2	12.5	250	105.0	80-120

Associated samples MP41454: FC146-27

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

DATA ASSESSMENT REPORT

Data assessment is a systematic process for reviewing a body of data against a predefined set of criteria to provide assurance that the data meet project Data Quality Objective (DQO) requirements. The purpose of the data assessment process is to determine if and how the usability of the analytical data is affected by the overall analytical processes and sample collection and handling procedures. If specific DQOs are not met, the data are qualified (i.e., data flags are assigned to sample results) in accordance with guidelines established by the United States Environmental Protection Agency (USEPA). Data assessment allows the data user to adequately determine if the data can be used for its intended purpose. The data acceptance criteria are established according to Standard Operating Procedures (SOPs) and Statements of Work (SOWs) provided to the contracted analytical laboratory. The assessment of data quality and usability involves five components, as described below.

1) **Field Sampling Check** is a process to ensure that all samples were collected, and the laboratory analyses were performed as stipulated in the applicable site-specific Work Plan or Field Sampling Plan (FSP). Inspection of sample preservation procedures, sample handling, analysis requested, sample description and identification (ID), cooler receipt forms, holding time evaluation, and Chain of Custody procedures are all evaluated to ensure that the evidentiary nature of the samples and the resulting analytical data have not been compromised.

2) **Data Verification** is a process for determining the completeness, correctness, consistency, and compliance of a data package in accordance with requirements contained in the applicable SOW and/or contract-specific requirements. This is a review of the data package, electronic data deliverable (EDD), and invoice received from the contract laboratory to ensure that the contract required information is present and complete prior to data validation.

3) **Data Review** is a process of reviewing the primary quality control (QC) data provided by the laboratory and the results of any internal quality assurance (QA)/QC samples, such as field blanks, trip blanks, equipment blanks or ambient blanks, field split samples, and duplicate samples, to ascertain any effect the laboratory's procedures or the sample collection process has on the data.

4) **Data Evaluation** is a process to determine if the data meet project-specific DQOs and contract requirements. This evaluation may involve a review of field sampling and sample management procedures, laboratory audits, Performance Evaluation (PE) sample results, and any other data quality indicators that are available.

5) **Data Validation** is a process to determine the accuracy and precision of analytical data generated and to identify any anomalies encountered. The validation process is performed in accordance with USEPA regional or national functional guidelines, project-specific guidelines, and

compliance with the requirements of each analytical method. Two major components of data validation are laboratory performance and matrix interferences. Evaluation of laboratory performance is a check for compliance for each analytical method to determine if the samples were analyzed within the prescribed acceptance criteria of the method. Evaluation of matrix interferences involves the analysis of surrogate spike recoveries, matrix spike recoveries, and duplicate sample results. Data not meeting project-specific DQOs or the requirements of the analytical method are qualified with data flags according to referenced guidelines.

Data Assessment Procedures

AECOM performed independent QC checks of field and laboratory procedures that were used in collecting and analyzing the data. The QC checks verify that the data collected are of appropriate quality for the intended data use and that the DQOs were met. The steps and guidelines followed during the data validation process were modeled on the *USEPA National Functional Guidelines for 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 FC97 were collected from October 26-27, 2022 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.

Volatile Organic Compounds by Method 8260D

Results of acetone, 4-methyl-2-pentanone, and tetrachloroethene in MW-30 were qualified "/M/M" due to high recovery in the associated matrix spike sample (658, 296, and 174%, respectively > 40-160%). These qualifiers indicate the results should be considered biased high.

Results of acetone and 4-methyl-2-pentanone in MW-30 were qualified "/M/D" due to the relative percent difference between the associated matrix spike and matrix spike duplicate samples (77 and 86%, respectively > 35%). These qualifiers indicate the imprecision with laboratory methodology, instrumentation, or matrix interference.

Select Metals by 6010D/7470A

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.

Semivolatile Organic Compounds by Method 8270E

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

The QC excursions encountered during the validation of this data set did not result in the rejection of any data. Therefore, the data associated with this laboratory batch should be considered compliant and adequate for its intended use.

References

United States Environmental Protection Agency (USEPA), July 2014. *Test Methods for Evaluation Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update V.*

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

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: FC611

Sampling Date: 11/15/22



Report to:

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Total number of pages in report: 24

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

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

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

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SGS North America Inc.

Sample Summary

Raytheon Technologies

Job No: FC611

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC611-1	11/15/22	09:45	RM	11/16/22	AQ	Ground Water	MW-37
FC611-2	11/15/22	10:00	RM	11/16/22	AQ	Ground Water	MW-19
FC611-3	11/15/22	10:15	RM	11/16/22	AQ	Ground Water	MW-20
FC611-4	11/15/22	00:00	RM	11/16/22	AQ	Trip Blank Water	TRIP BLANK

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:** FC611

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date:** 11/30/2022 12:26:35

On 11/16/2022, 3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC611 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:** V1P3634

Sample(s) FC568-7MS, FC568-7MSD were used as the QC samples indicated.

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

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

FC611-1 for Chloroethane: Associated CCV outside control limits high, sample is ND.

FC611-1 for Methyl Bromide: Associated CCV outside control limits low.

FC611-1: Sample was not preserved to a pH < 2.

FC611-2 for Chloroethane: Associated CCV outside control limits high, sample is ND.

FC611-2 for Methyl Bromide: Associated CCV outside control limits low.

FC611-2: Sample was not preserved to a pH < 2.

FC611-3 for Chloroethane: Associated CCV outside control limits high, sample is ND.

FC611-3 for Methyl Bromide: Associated CCV outside control limits low.

FC611-3: Sample was not preserved to a pH < 2.

FC611-4 for Chloroethane: Associated CCV outside control limits high, sample is ND.

FC611-4 for Methyl Bromide: Associated CCV outside control limits low.

FC611-4: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VO2857

FC611-2: Sample was not preserved to a pH < 2. Confirmation run beyond holdtime.

FC611-3: Sample was not preserved to a pH < 2. Confirmation run beyond holdtime.

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: FC611
Account: Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/15/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FC611-1	**MW-37**					
Methylene Chloride [a]		2400 J	2500	1000	ug/l	SW846 8260D
Tetrachloroethylene [a]		16500	500	110	ug/l	SW846 8260D
FC611-2	**MW-19**					
Methylene Chloride [a]		4750 J	5000	2000	ug/l	SW846 8260D
Tetrachloroethylene [a]		18900	1000	220	ug/l	SW846 8260D
FC611-3	**MW-20**					
Acetone [a]		31.7 J	63	25	ug/l	SW846 8260D
Methylene Chloride [a]		12.9 J	13	5.0	ug/l	SW846 8260D
FC611-4	**TRIP BLANK**					
Toluene [a]		7.7	1.0	0.30	ug/l	SW846 8260D

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-37		
Lab Sample ID:	FC611-1	**Date Sampled:**	11/15/22
Matrix:	AQ - Ground Water	**Date Received:**	11/16/22
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]	1P95650.D	500	11/21/22 18:37	CF	n/a	n/a	V1P3634
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13000	5000	ug/l	
71-43-2	Benzene	ND	500	160	ug/l	
75-27-4	Bromodichloromethane	ND	500	120	ug/l	
75-25-2	Bromoform	ND	500	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	1000	ug/l	
75-15-0	Carbon Disulfide	ND	1000	270	ug/l	
56-23-5	Carbon Tetrachloride	ND	500	180	ug/l	
108-90-7	Chlorobenzene	ND	500	100	ug/l	
75-00-3	Chloroethane [b]	ND	1000	330	ug/l	
67-66-3	Chloroform	ND	500	150	ug/l	
124-48-1	Dibromochloromethane	ND	500	140	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	170	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	160	ug/l	
75-35-4	1,1-Dichloroethylene	ND	500	160	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	500	140	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	500	110	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	210	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	150	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	110	ug/l	
100-41-4	Ethylbenzene	ND	500	180	ug/l	
591-78-6	2-Hexanone	ND	5000	1000	ug/l	
74-83-9	Methyl Bromide [c]	ND	2500	1000	ug/l	
74-87-3	Methyl Chloride	ND	1000	250	ug/l	
75-09-2	Methylene Chloride	2400	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	16500	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-37		
Lab Sample ID:	FC611-1	**Date Sampled:**	11/15/22
Matrix:	AQ - Ground Water	**Date Received:**	11/16/22
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	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside control limits high, sample is ND.
(c) Associated CCV 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-19
Lab Sample ID: FC611-2
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/15/22
Date Received: 11/16/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P95651.D	1000	11/21/22 19:03	CF	n/a	n/a	V1P3634
Run #2 [b]	O72681.D	250	11/28/22 19:17	KG	n/a	n/a	VO2857

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

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25000	10000	ug/l	
71-43-2	Benzene	ND	1000	310	ug/l	
75-27-4	Bromodichloromethane	ND	1000	240	ug/l	
75-25-2	Bromoform	ND	1000	410	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	2000	ug/l	
75-15-0	Carbon Disulfide	ND	2000	530	ug/l	
56-23-5	Carbon Tetrachloride	ND	1000	360	ug/l	
108-90-7	Chlorobenzene	ND	1000	200	ug/l	
75-00-3	Chloroethane [c]	ND	2000	670	ug/l	
67-66-3	Chloroform	ND	1000	300	ug/l	
124-48-1	Dibromochloromethane	ND	1000	280	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	340	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	310	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1000	320	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1000	280	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1000	220	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	430	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	290	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	210	ug/l	
100-41-4	Ethylbenzene	ND	1000	360	ug/l	
591-78-6	2-Hexanone	ND	10000	2000	ug/l	
74-83-9	Methyl Bromide [d]	ND	5000	2000	ug/l	
74-87-3	Methyl Chloride	ND	2000	500	ug/l	
75-09-2	Methylene Chloride	4750	5000	2000	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5000	1000	ug/l	
100-42-5	Styrene	ND	1000	220	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	300	ug/l	
127-18-4	Tetrachloroethylene	18900	1000	220	ug/l	
108-88-3	Toluene	ND	1000	300	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	470	ug/l	
79-01-6	Trichloroethylene	ND	1000	350	ug/l	

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

Report of Analysis

Client Sample ID:	MW-19		
Lab Sample ID:	FC611-2	**Date Sampled:**	11/15/22
Matrix:	AQ - Ground Water	**Date Received:**	11/16/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	1000	410	ug/l	
1330-20-7	Xylene (total)	ND	3000	720	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	107%	79-125%
2037-26-5	Toluene-D8	100%	96%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Confirmation run beyond holdtime.
(c) Associated CCV outside control limits high, sample is ND.
(d) Associated CCV 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-20		
Lab Sample ID:	FC611-3	**Date Sampled:**	11/15/22
Matrix:	AQ - Ground Water	**Date Received:**	11/16/22
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]	1P95652.D	2.5	11/21/22 19:29	CF	n/a	n/a	V1P3634
Run #2 [b]	O72682.D	1	11/28/22 19:42	KG	n/a	n/a	VO2857

	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	31.7	63	25	ug/l	J
71-43-2	Benzene	ND	2.5	0.78	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.61	ug/l	
75-25-2	Bromoform	ND	2.5	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	13	5.0	ug/l	
75-15-0	Carbon Disulfide	ND	5.0	1.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.89	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.50	ug/l	
75-00-3	Chloroethane [c]	ND	5.0	1.7	ug/l	
67-66-3	Chloroform	ND	2.5	0.75	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.85	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.78	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	0.69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.55	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.54	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.89	ug/l	
591-78-6	2-Hexanone	ND	25	5.0	ug/l	
74-83-9	Methyl Bromide [d]	ND	13	5.0	ug/l	
74-87-3	Methyl Chloride	ND	5.0	1.3	ug/l	
75-09-2	Methylene Chloride	12.9	13	5.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	2.5	ug/l	
100-42-5	Styrene	ND	2.5	0.56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.75	ug/l	
127-18-4	Tetrachloroethylene	ND	2.5	0.54	ug/l	
108-88-3	Toluene	ND	2.5	0.75	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	1.2	ug/l	
79-01-6	Trichloroethylene	ND	2.5	0.86	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-20		
Lab Sample ID:	FC611-3	**Date Sampled:**	11/15/22
Matrix:	AQ - Ground Water	**Date Received:**	11/16/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl Chloride	ND	2.5	1.0	ug/l	
1330-20-7	Xylene (total)	ND	7.5	1.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	79-125%
2037-26-5	Toluene-D8	101%	96%	85-112%
460-00-4	4-Bromofluorobenzene	103%	94%	83-118%

(a) Sample was not preserved to a pH < 2.
(b) Sample was not preserved to a pH < 2. Confirmation run beyond holdtime.
(c) Associated CCV outside control limits high, sample is ND.
(d) Associated CCV 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: TRIP BLANK
Lab Sample ID: FC611-4
Matrix: AQ - Trip Blank Water
Method: SW846 8260D
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 11/15/22
Date Received: 11/16/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1P95635.D	1	11/21/22 12:11	CF	n/a	n/a	V1P3634
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane [b]	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
74-83-9	Methyl Bromide [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	ND	1.0	0.22	ug/l	
108-88-3	Toluene	7.7	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC611-4	**Date Sampled:**	11/15/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/16/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TCL List

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

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

(a) Sample was not preserved to a pH < 2.
(b) Associated CCV outside control limits high, sample is ND.
(c) Associated CCV 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

FC611

AECOM

Chain of Custody and Analytical Request

Page / of /
Project Number: 60656814.1a
Chain of Custody Number (1):
P.O. #

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

Client Name: UTC

Collected by: Randy Morgan

Project Manager: Leslee Alexander

	Sample ID	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	See Comments: COMP	GRAB	Well	Sample Information	TCL VOC,s 8260D	COMMENTS	Cooler ID
1	MW-37	15-Nov-2022	0945			X	Groundwater	X	ALL VOC'S ARE UNPRESERVED	
2	MW-19	15-Nov-2022	1000			X		X	7 DAY HOLDING TIME	
3	MW-20	15-Nov-2022	1015			X		X		
4	Trip Blank	15-Nov-2022			X			X		

Sample Analysis Requested

Quality Assurance Samples

INITIAL ASSESSMENT

..IFICATION

Custody Transfers Prior to Receipt by Laboratory

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1.	Randy Morgan	11-15-22	1500		11/16/22	1000
2.						
3.						

Sample Delivery Details / Laboratory Receipt

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

Shipped: XXXX
Airbill #: 570790503114
Location: Orlando FLA
Date: Time:

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

VOC'S ARE UNPRESERVED 7 DAY HOLDING TIME

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

FC611: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FC611 **Client:** AECOM **Project:** UTC DEVLAN SPRAY TECHNOLOGIES SITE

Date / Time Received: 11/16/2022 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 5707 9050 3114

Therm ID: IR 1; **Therm CF:** 0.6; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☑		☐	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☑		☐	☐

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

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SAMUELM Date: 11/16/2022 10:00:00 Reviewer: _____ Date: _____

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FC611
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3634-MB	1P95634.D	1	11/21/22	CF	n/a	n/a	V1P3634

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

FC611-1, FC611-2, FC611-3, FC611-4

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: FC611
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3634-MB	1P95634.D	1	11/21/22	CF	n/a	n/a	V1P3634

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

FC611-1, FC611-2, FC611-3, FC611-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	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	105%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.01	20	ug/l	JN
124-38-9	Carbon dioxide	1.03	35	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: FC611
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3634-BS	1P95631.D	1	11/21/22	CF	n/a	n/a	V1P3634

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

FC611-1, FC611-2, FC611-3, FC611-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	50-147
71-43-2	Benzene	25	24.6	98	81-122
75-27-4	Bromodichloromethane	25	27.4	110	79-123
75-25-2	Bromoform	25	29.1	116	66-123
78-93-3	2-Butanone (MEK)	125	135	108	56-143
75-15-0	Carbon Disulfide	25	23.0	92	66-148
56-23-5	Carbon Tetrachloride	25	28.0	112	76-136
108-90-7	Chlorobenzene	25	23.6	94	82-124
75-00-3	Chloroethane	25	33.7	135	62-144
67-66-3	Chloroform	25	25.2	101	80-124
124-48-1	Dibromochloromethane	25	26.2	105	78-122
75-34-3	1,1-Dichloroethane	25	26.7	107	81-122
107-06-2	1,2-Dichloroethane	25	24.3	97	75-125
75-35-4	1,1-Dichloroethylene	25	24.9	100	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.1	104	76-127
78-87-5	1,2-Dichloropropane	25	24.5	98	76-124
10061-01-5	cis-1,3-Dichloropropene	25	26.5	106	75-118
10061-02-6	trans-1,3-Dichloropropene	25	28.2	113	80-120
100-41-4	Ethylbenzene	25	23.9	96	81-121
591-78-6	2-Hexanone	125	130	104	61-129
74-83-9	Methyl Bromide	25	21.2	85	59-143
74-87-3	Methyl Chloride	25	29.0	116	50-159
75-09-2	Methylene Chloride	25	23.3	93	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	136	109	66-122
100-42-5	Styrene	25	24.3	97	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	72-120
127-18-4	Tetrachloroethylene	25	25.5	102	76-135
108-88-3	Toluene	25	24.0	96	80-120
71-55-6	1,1,1-Trichloroethane	25	26.2	105	75-130
79-00-5	1,1,2-Trichloroethane	25	23.9	96	76-119
79-01-6	Trichloroethylene	25	24.1	96	81-126
75-01-4	Vinyl Chloride	25	25.1	100	69-159
1330-20-7	Xylene (total)	75	72.7	97	80-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC611
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1P3634-BS	1P95631.D	1	11/21/22	CF	n/a	n/a	V1P3634

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

FC611-1, FC611-2, FC611-3, FC611-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC611
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC568-7MS	1P95655.D	1	11/21/22	CF	n/a	n/a	V1P3634
FC568-7MSD	1P95656.D	1	11/21/22	CF	n/a	n/a	V1P3634
FC568-7	1P95643.D	1	11/21/22	CF	n/a	n/a	V1P3634

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

FC611-1, FC611-2, FC611-3, FC611-4

CAS No.	Compound	FC568-7 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	114	91	125	131	105	14	50-147/21
71-43-2	Benzene	ND		25	24.1	96	25	22.9	92	5	81-122/14
75-27-4	Bromodichloromethane	ND		25	27.2	109	25	25.4	102	7	79-123/19
75-25-2	Bromoform	ND		25	28.1	112	25	27.2	109	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	121	97	125	124	99	2	56-143/18
75-15-0	Carbon Disulfide	ND		25	22.6	90	25	21.7	87	4	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	26.6	106	25	27.5	110	3	76-136/23
108-90-7	Chlorobenzene	ND		25	22.9	92	25	21.9	88	4	82-124/14
75-00-3	Chloroethane	ND		25	36.7	147*	25	34.6	138	6	62-144/20
67-66-3	Chloroform	ND		25	24.5	98	25	23.6	94	4	80-124/15
124-48-1	Dibromochloromethane	ND		25	25.8	103	25	23.9	96	8	78-122/19
75-34-3	1,1-Dichloroethane	ND		25	26.2	105	25	25.1	100	4	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	24.4	98	25	23.9	96	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	25.9	104	25	24.5	98	6	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.2	97	25	23.3	93	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.2	101	25	24.2	97	4	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	24.4	98	25	22.9	92	6	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.8	99	25	23.9	96	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	27.2	109	25	25.8	103	5	80-120/22
100-41-4	Ethylbenzene	ND		25	24.6	98	25	23.2	93	6	81-121/14
591-78-6	2-Hexanone	ND		125	125	100	125	122	98	2	61-129/18
74-83-9	Methyl Bromide	ND		25	44.6	178*	25	43.7	175*	2	59-143/19
74-87-3	Methyl Chloride	ND		25	25.7	103	25	25.4	102	1	50-159/19
75-09-2	Methylene Chloride	ND		25	21.1	84	25	20.6	82	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	127	102	125	124	99	2	66-122/16
100-42-5	Styrene	ND		25	23.9	96	25	23.0	92	4	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.6	90	25	21.9	88	3	72-120/14
127-18-4	Tetrachloroethylene	ND		25	24.8	99	25	22.6	90	9	76-135/16
108-88-3	Toluene	ND		25	23.8	95	25	22.6	90	5	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	25.2	101	25	24.3	97	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	24.0	96	25	22.7	91	6	76-119/14
79-01-6	Trichloroethylene	ND		25	23.8	95	25	23.1	92	3	81-126/15
75-01-4	Vinyl Chloride	ND		25	26.4	106	25	25.9	104	2	69-159/18
1330-20-7	Xylene (total)	ND		75	72.6	97	75	69.1	92	5	80-126/15

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC611
Account: UTC Raytheon Technologies
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC568-7MS	1P95655.D	1	11/21/22	CF	n/a	n/a	V1P3634
FC568-7MSD	1P95656.D	1	11/21/22	CF	n/a	n/a	V1P3634
FC568-7	1P95643.D	1	11/21/22	CF	n/a	n/a	V1P3634

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

FC611-1, FC611-2, FC611-3, FC611-4

CAS No.	Surrogate Recoveries	MS	MSD	FC568-7	Limits
1868-53-7	Dibromofluoromethane	101%	104%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	107%	79-125%
2037-26-5	Toluene-D8	98%	98%	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	103%	102%	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, 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 FC97 were collected on November 15, 2022 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.

Volatile Organic Compounds by Method 8260D

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 D

Historical VOC Data

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MCL			200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-1	6/4/2003	µg/L	<50	<50	<50	NA	NA	NA	NA	<50	NA	140	**15000**	<250	<50	<50	<50	<150
MW-1	12/30/2003	µg/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	**11000**	<800	<800	<800	<800	<800
MW-1	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	10.1	NA	<1.00	**5470**	NA	<1.00	**34.8**	<1.00	NA
MW-1	6/1/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	10.1	NA	<1.00	**5750**	NA	<1.00	**41.3**	<1.00	NA
MW-1	9/20/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	9.6	NA	<1.00	**3150**	NA	<1.00	**38.4**	<1.00	NA
MW-1	12/12/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	11.4	NA	<1.00	**4750**	NA	<1.00	**35.6**	<1.00	NA
MW-1	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	11.9	NA	<1.00	**6580**	NA	<1.00	**48.1**	<1.00	NA
MW-1	6/26/2006	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	13	NA	<1.0	**4100**	NA	<1.0	**32**	<1.0	NA
MW-1	10/21/2006	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	17.9	NA	<1.0	**9550**	NA	<1.0	**65.8**	<1.0	NA
MW-1	1/12/2007	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	23.1	NA	<1.00	**6790**	NA	<1.00	**85.6**	<1.00	NA
MW-1	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	**102**	NA	<1.00	**5390**	NA	<1.00	**83.7**	<1.00	NA
MW-1	11/5/2009	µg/L	<1.00	<1.00	1.74	NA	NA	NA	NA	**382**	NA	<1.00	**7680**	NA	<1.00	**108**	<1.00	NA
MW-1	4/30/2010	µg/L	<5.00	<5.00	<5.00	NA	NA	NA	NA	**184**	NA	<5.00	**5940**	NA	<5.00	**79.6**	<5.00	NA
MW-1	10/25/2010	µg/L	<50.0	<50.0	<50.0	NA	NA	NA	NA	**648**	NA	<50.0	**5690**	NA	<50.0	**99.5**	<50.0	NA
MW-1	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	**210**	NA	<1.0	**3000**	<1.0	<1.0	**28**	<2.0	<10
MW-1	11/9/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	**265**	NA	<1.00	**2320**	NA	<1.00	**35**	<1.00	NA
MW-1	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	**298**	NA	<1.00	**3120**	NA	<1.00	**41.4**	<1.00	NA
MW-1	2/26/2014	µg/L	<6.7	<5.1	<5.1	<4.8	<5.2	<4	<6.2	**110 /J/A**	<7.2	69.3 J	**1280 /J/A**	<4	<6.9	**11.5 J**	<6.5	<13
MW-1	10/27/2014	µg/L	<6.7	<5.1	<5.1	<4.8	<5.2	<4	<6.2	131	<7.2	<40	**785**	<4	<6.9	**18.6 J**	**10.9 J**	<13
MW-1	4/20/2015	µg/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	6.1	<1	<10	**447**	<2	<1	2.6 J	<1.3	<2.6
MW-1	10/28/2015	µg/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	7.1	<1	<10	**383**	<2	<1	2.8 J	<1.3	<2.6
MW-1	4/13/2016	µg/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	19.4	<1.3	<10	**468**	<1	<1.7	**6.2**	<1.6	<2.8
MW-1	10/25/2016	µg/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	7	<1.3	<10	**410**	<1	<1.7	3.5 J	<1.6	<2.8
MW-1	4/12/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	13.9	<0.28	<2	**607**	<0.3	<0.22	**8.4**	<0.41	<0.72
MW-1	10/18/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	**124**	<0.28	<2	**835**	<0.3	<0.22	**23.2**	<0.41	<0.72
MW-1	5/9/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	12.1	<0.28	<2	**298**	<0.3	<0.22	**8.1**	<0.41	<0.72
MW-1	10/30/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	11.6	<1.4	<10	**277**	<1.5	<1.1	4.2	<2	<3.6
MW-1	4/24/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	5	<0.55	<4	**195**	<0.6	<0.44	2.2	<0.82	<1.4
MW-1	10/15/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	48.8	<0.55	<4	**656**	<0.6	<0.44	**15.9**	<0.82	<1.4
MW-1	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	1.9	<0.28	<2	**111**	<0.3	<0.22	1.2	<0.41	<0.72
MW-1	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.4	<0.28	<2	**103**	<0.3	<0.22	2.9	<0.41	<0.72
MW-1	4/13/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	0.94 J	<0.55	<4	**46.1**	<0.6	<0.44	0.85 J	<0.82	<1.4
MW-1	10/19/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	5.2	<0.28	<2	**108**	1.6 /B/T	<0.22	**8.6**	<0.41	<0.72
MW-1	4/14/2022	ug/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	ug/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-2	6/4/2003	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-2	12/30/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	4.5	<2	<2	<2	<2	<4
MW-2	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	4.3	NA	<1.00	<1.00	<1.00	NA
MW-2	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.21	NA	<1.00	<1.00	<1.00	NA
MW-2	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.5	NA	<1.00	<1.00	<1.00	NA
MW-2	11/5/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.17	NA	<1.00	<1.00	<1.00	NA
MW-2	4/30/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.27	NA	<1.00	<1.00	<1.00	NA
MW-2	10/25/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1	NA	<1.00	<1.00	<1.00	NA
MW-2	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-2	11/9/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.86	NA	<1.00	<1.00	<1.00	NA
MW-2	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**6.55**	NA	<1.00	<1.00	<1.00	NA
MW-2	2/25/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.6	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	10/27/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.53 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	10/28/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.85 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	4/13/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.57	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	10/25/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.83 J	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	4/12/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.92 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/17/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	3.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	5/10/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.3	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/31/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.6	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/20/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.4	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.71 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.1	2.1 /B/T	<0.22	<0.35	<0.41	<0.72
MW-2	4/13/2022	ug/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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-3	6/4/2003	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	**74**	<5.0	<1.0	<1.0	<1.0	<3.0
MW-3	12/30/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	**220**	<2	<2	<2	<2	<4
MW-3	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**113**	NA	<1.00	<1.00	<1.00	NA
MW-3	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**305**	NA	<1.00	<1.00	<1.00	NA
MW-3	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**59.8**	NA	<1.00	<1.00	<1.00	NA
MW-3	11/5/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**82.1**	NA	<1.00	<1.00	<1.00	NA
MW-3	4/30/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**238**	NA	<1.00	1.03	<1.00	NA
MW-3	10/25/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**391**	NA	<1.00	2.79	<1.00	NA
MW-3	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	**47**	<1.0	<1.0	<1.0	<2.0	<10
MW-3	11/9/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**140**	NA	<1.00	3.23	<1.00	NA
MW-3	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**64.5**	NA	<1.00	<1.00	<1.00	NA
MW-3	3/5/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	**45.1**	<0.2	<0.34	1.1	<0.33	<0.66
MW-3	10/28/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	**49.9**	<0.2	<0.34	1.4	<0.33	<0.66
MW-3	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.92 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3	10/27/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	0.24 J	<0.2	<2	**57.4**	<0.4	<0.21	0.79 J	<0.25	<0.51
MW-3	4/13/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.68	<0.26	<2	**98**	<0.2	<0.33	1.2	<0.31	<0.56
MW-3	10/26/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.58 J	<0.26	<2	**91.6**	<0.2	<0.33	1.1	<0.31	<0.56
MW-3	4/11/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.6	<0.28	<2	**199**	<0.3	<0.22	3.6	<0.41	<0.72
MW-3	10/17/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.33 J	<0.28	<2	**77.3**	<0.3	<0.22	1.6	<0.41	<0.72
MW-3	5/9/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**95.2**	<0.3	<0.22	1.2	<0.41	<0.72
MW-3	10/31/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.51	<0.28	<2	**86.8**	<0.3	<0.22	1.3	<0.41	<0.72
MW-3	4/23/2019	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	1.9	<0.55	<4	**132**	<0.6	<0.44	1.7	<0.82	<1.4
MW-3	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.44 J	<0.28	<2	**98.8**	<0.3	<0.22	1.3	<0.41	<0.72
MW-3	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2	<0.28	<2	**122 E**	<0.3	<0.22	1.8	<0.41	<0.72
MW-3	10/20/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.2	<0.28	<2	**119**	<0.3	<0.22	3.1	<0.41	<0.72
MW-3	4/13/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	2.8	<0.55	<4	**137**	<0.6	<0.44	2.5	<0.82	<1.4
MW-3	10/19/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	3.1	<0.55	<4	**117**	2 /B/T	<0.44	2.8	<0.82	<1.4
MW-3	4/13/2022	ug/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	ug/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-3D	1/9/2008	µg/L	<1.00	<1.00	**9.68**	NA	NA	NA	NA	5.52	NA	<1.00	**432**	NA	<1.00	3.33	<1.00	NA
MW-3D	11/5/2009	µg/L	<1.00	<1.00	**11.8**	NA	NA	NA	NA	8.92	NA	<1.00	**612**	NA	<1.00	4.11	<1.00	NA
MW-3D	4/30/2010	µg/L	<1.00	<1.00	**9.92**	NA	NA	NA	NA	9.33	NA	<1.00	**764**	NA	<1.00	**6.1**	<1.00	NA
MW-3D	10/26/2010	µg/L	<1.00	<1.00	**11.7**	NA	NA	NA	NA	9.98	NA	<1.00	**544**	NA	<1.00	4.51	<1.00	NA
MW-3D	5/24/2011	µg/L	<1.0	<1.0	**11**	NA	NA	NA	NA	9.4	NA	<1.0	**600**	<1.0	<1.0	4.7	<2.0	<10
MW-3D	11/9/2011	µg/L	<1.00	<1.00	**10.8**	NA	NA	NA	NA	9.93	NA	<1.00	**526**	NA	<1.00	4.01	<1.00	NA
MW-3D	5/9/2012	µg/L	<1.00	<1.00	**10.3**	NA	NA	NA	NA	8.58	NA	<1.00	**520**	NA	<1.00	4.48	<1.00	NA
MW-3D	3/5/2014	µg/L	<0.34	<0.26	**10.4**	<0.24	<0.26	<0.2	<0.31	7	<0.36	<2	**204**	<0.2	<0.34	**6**	<0.33	<0.66
MW-3D	10/28/2014	µg/L	0.58 J	<0.26	**16.2**	<0.24	<0.26	<0.2	<0.31	5.9	<0.36	<2	**384**	<0.2	<0.34	4.2	<0.33	<0.66
MW-3D	4/21/2015	µg/L	<0.26	<0.2	**12.4**	<0.2	<0.22	<0.29	<0.3	8.4	<0.2	<2	**316 /M/M**	<0.4	<0.21	**8.1**	<0.25	<0.51
MW-3D	10/27/2015	µg/L	<1.3	<1	**9.7**	<1	<1.1	<1.5	<1.5	5.6	<1	<10	**353**	<2	<1	**6.7**	<1.3	<2.6
MW-3D	4/13/2016	µg/L	<1	<1.3	**5.7**	<1.4	<1.2	<1.2	<1.5	7.8	<1.3	<10	**285**	<1	<1.7	**8.3**	<1.6	<2.8
MW-3D	10/26/2016	µg/L	0.25 J	<0.26	**8.8**	<0.28	<0.24	<0.23	<0.3	8.3	<0.26	<2	**331**	<0.2	<0.33	**7.6**	<0.31	<0.56
MW-3D	4/11/2017	µg/L	0.27 J	<0.34	**8**	<0.31	<0.24	<0.53	<0.3	8	<0.28	<2	**223**	<0.3	<0.22	**8.1**	<0.41	<0.72
MW-3D	10/17/2017	µg/L	<0.62	<0.85	**8.8**	<0.78	<0.61	<1.3	<0.75	6.4	<0.69	<5	**290**	<0.75	<0.55	4.4	<1	<1.8
MW-3D	5/9/2018	µg/L	<1.2	<1.7	6.7	<1.6	<1.2	<2.7	<1.5	7	<1.4	<10	**299**	<1.5	<1.1	**7.4**	<2	<3.6
MW-3D	10/31/2018	µg/L	<1.2	<1.7	**7.8**	<1.6	<1.2	<2.7	<1.5	9	<1.4	<10	**432**	<1.5	<1.1	**6.4**	<2	<3.6
MW-3D	4/23/2019	µg/L	<1.2	<1.7	5.6	<1.6	<1.2	<2.7	<1.5	7.4	<1.4	<10	**296**	<1.5	<1.1	**9**	<2	<3.6
MW-3D	10/15/2019	µg/L	<1.2	<1.7	6.3	<1.6	<1.2	<2.7	<1.5	6.8	<1.4	<10	**258**	<1.5	<1.1	**5.7**	<2	<3.6
MW-3D	4/15/2020	µg/L	<0.62	<0.85	4.8	<0.78	<0.61	<1.3	<0.75	8.7	<0.69	<5	**220**	<0.75	<0.55	**9.6**	<1	<1.8
MW-3D	10/20/2020	µg/L	<0.62	<0.85	5.9	<0.78	<0.61	<1.3	<0.75	8	<0.69	<5	**347**	<0.75	<0.55	**5.3**	<1	<1.8
MW-3D	4/13/2021	µg/L	<1.2	<1.7	3.7 J	<1.6	<1.2	<2.7	<1.5	7.5	<1.4	<10	**179**	<1.5	<1.1	**7.4**	<2	<3.6
MW-3D	10/19/2021	µg/L	<1.2	<1.7	5.3	<1.6	<1.2	<2.7	<1.5	8.2	<1.4	<10	**235**	<1.5	<1.1	**5.7**	<2	<3.6
MW-3D	4/13/2022	ug/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	ug/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-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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	6/4/2003	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	**160**	<5.0	<1.0	<1.0	<1.0	<3.0
MW-5	12/31/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	**230**	<2	<2	<2	<2	<4
MW-5	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**345**	NA	<1.00	<1.00	<1.00	NA
MW-5	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	3.79	NA	<1.00	<1.00	<1.00	NA
MW-5	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	**97.6**	NA	<1.00	<1.00	<1.00	NA
MW-5	11/5/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.42	NA	<1.00	<1.00	<1.00	NA
MW-5	4/30/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.46	NA	<1.00	<1.00	<1.00	NA
MW-5	10/26/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-5	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-5	11/9/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.55	NA	<1.00	<1.00	<1.00	NA
MW-5	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.57	NA	<1.00	<1.00	<1.00	NA
MW-5	3/5/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	**11.7**	<0.2	<0.34	<0.3	<0.33	<0.66
MW-5	10/28/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.1	<0.2	<0.34	<0.3	<0.33	<0.66
MW-5	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	1	<0.2	<2	**74.3**	<0.4	<0.21	1.3	<0.25	<0.51
MW-5	10/28/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	**16.2**	<0.4	<0.21	<0.22	<0.25	<0.51
MW-5	4/11/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.53	<0.2	<0.33	<0.27	<0.31	<0.56
MW-5	10/26/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	2.5	<0.2	<0.33	<0.27	<0.31	<0.56
MW-5	4/12/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.7	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	10/17/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.87 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	5/9/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**27.7**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	11/1/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.5	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	4/24/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.2	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.69 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.9	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	10/20/2020	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	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-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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-7	12/31/2003	µg/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	5.3
MW-7	3/14/2005	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	3/28/2006	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	11/5/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	4/30/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	5/24/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-7	11/8/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	3/5/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-7	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-7	10/28/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	1.4	<0.4	<0.21	<0.22	<0.25	<0.51
MW-7	4/13/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-7	10/26/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-7	4/12/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.49 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	10/17/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	5/9/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	11/1/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	4/24/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	0.38	<0.22	<0.35	<0.41	<0.72
MW-7	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.82 J	1.6 /B/T	<0.22	<0.35	<0.41	<0.72
MW-7	10/26/2022	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-8	12/31/2003	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	ug/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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-9/MWT-1	12/31/2003	µg/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	**7500**	<800	<800	<800	<800	<2,000
MW-9/MWT-1	3/14/2005	µg/L	<1.00	<1.00	**7.3**	NA	NA	NA	NA	19.1	NA	<1.00	**3520**	NA	<1.00	**76**	<1.00	NA
MW-9/MWT-1	6/1/2005	µg/L	<1.00	<1.00	6.7	NA	NA	NA	NA	**226**	NA	<1.00	**4670**	NA	1.4	**280**	<1.00	NA
MW-9/MWT-1	9/20/2005	µg/L	1.28	<1.00	**13.6**	NA	NA	NA	NA	**158**	NA	<1.00	**5000**	NA	1.9	**295**	<1.00	NA
MW-9/MWT-1	12/12/2005	µg/L	2.05	<1.00	**8.94**	NA	NA	NA	NA	**182**	NA	<1.00	**3920**	NA	1.37	**286**	<1.00	NA
MW-9/MWT-1	3/28/2006	µg/L	<1.00	<1.00	**8.51**	NA	NA	NA	NA	**362**	NA	<1.00	**4560**	NA	1.57	**372**	<1.00	NA
MW-9/MWT-1	6/26/2006	µg/L	<1.0	<1.0	**12**	NA	NA	NA	NA	**520**	NA	<1.0	**1500**	NA	1.7	**330**	<1.0	NA
MW-9/MWT-1	10/21/2006	µg/L	<1.0	<1.0	**23.5**	NA	NA	NA	NA	**540**	NA	<1.0	**7490**	NA	<1.0	**504**	<1.0	NA
MW-9/MWT-1	1/12/2007	µg/L	<1.00	<1.00	**25.3**	NA	NA	NA	NA	**442**	NA	<1.00	**5630**	NA	1.97	**626**	<1.00	NA
MW-9/MWT-1	1/9/2008	µg/L	1.08	<1.00	5.01	NA	NA	NA	NA	**271**	NA	<1.00	**2410**	NA	1.39	**297**	**8.73**	NA
MW-9/MWT-1	11/4/2009	µg/L	<1.00	<1.00	**11.6**	NA	NA	NA	NA	**379**	NA	<1.00	**2950**	NA	2.21	**559**	<1.00	NA
MW-9/MWT-1	4/29/2010	µg/L	<1.00	<1.00	**11.1**	NA	NA	NA	NA	**236**	NA	<1.00	**4170**	NA	3.41	**320**	**4.79**	NA
MW-9/MWT-1	10/25/2010	µg/L	<20.0	<20.0	<20.0	NA	NA	NA	NA	**326**	NA	<20.0	**3660**	NA	<20.0	**579**	<20.0	NA
MW-9/MWT-1	5/24/2011	µg/L	<10	<10	<10	NA	NA	NA	NA	**160**	NA	<10	**1200**	<10	<10	**380**	<20	<100
MW-9/MWT-1	11/9/2011	µg/L	1.2	<1.00	**19.7**	NA	NA	NA	NA	**200**	NA	<1.00	**4000**	NA	1.47	**450**	<1.00	NA
MW-9/MWT-1	5/8/2012	µg/L	<1.00	<1.00	2.92	NA	NA	NA	NA	**127**	NA	<1.00	**755**	NA	1.09	**258**	<1.00	NA
MW-9	3/6/2014	µg/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	31.5	<1.8	<10	**498**	<1	<1.7	**55.3**	<1.6	<3.3
MW-9	10/29/2014	µg/L	<0.34	<0.26	2.2	<0.24	<0.26	<0.2	<0.31	**92.2**	<0.36	<2	**727 /M/m**	<0.2	0.59 J	**159**	<0.33	<0.66
MW-9	4/22/2015	µg/L	<2.6	<2	<2.7	<2	<2.2	<2.9	<3	33.1	<2	<20	**1760**	<4	<2.1	**133**	<2.5	<5.1
MW-9	10/27/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	**116**	<0.2	<2	**1070**	<0.4	1.1	**172 /M/M**	<0.25	<0.51
MW-9	4/12/2016	µg/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	**49.2**	<2.6	<20	**771**	<2	<3.3	**115**	<3.1	<5.6
MW-9	10/26/2016	µg/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	19.2	<2.6	<20	**685**	<2	<3.3	**106**	<3.1	<5.6
MW-9	4/10/2017	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	7.8	<1.4	<10	**326**	<1.5	<1.1	**43.8**	<2	<3.6
MW-9	10/17/2017	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	**109**	<1.4	<10	**646**	<1.5	<1.1	**157**	<2	<3.6
MW-9	5/9/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	5.9	<1.4	<10	**466**	<1.5	<1.1	**46.5**	<2	<3.6
MW-9	10/30/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	**75.6**	<1.4	<10	**2240**	<1.5	<1.1	**441**	<2	<3.6
MW-9	4/23/2019	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	9.6	<1.4	<10	**513**	<1.5	<1.1	**47.1**	<2	<3.6
MW-9	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.2	<0.28	<2	**194 /M/M**	<0.3	<0.22	**24.6**	<0.41	<0.72
MW-9	4/15/2020	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	28.1	<0.69	<5	**402 /M/m**	<0.75	<0.55	**97.4 /M/m**	<1	<1.8
MW-9	10/20/2020	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	17.3	<1.4	<10	**443**	<1.5	<1.1	**116**	<2	<3.6
MW-9	4/13/2021	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	14.4	<1.4	<10	**156**	<1.5	<1.1	**45.6**	<2	<3.6
MW-9	10/18/2021	µg/L	<0.5	<0.68	<0.64	<0.62	<0.48	<1.1	<0.6	8	<0.55	<4	**123**	<0.6	<0.44	**36.9**	<0.82	<1.4
MW-9	4/13/2022	ug/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	ug/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-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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-10/MWT-2	12/31/2003	µg/L	<200	<200	**520**	NA	NA	NA	NA	<200	NA	<200	**5800**	<200	<200	<200	<200	<400
MW-10/MWT-2	3/14/2005	µg/L	26.4	<1.00	**18.6**	NA	NA	NA	NA	40.1	NA	<1.00	**4360**	NA	1	**62.3**	<1.00	NA
MW-10/MWT-2	6/1/2005	µg/L	12.7	1.7	**17.5**	NA	NA	NA	NA	40.8	NA	<1.00	**5680**	NA	<1.00	**52**	<1.00	NA
MW-10/MWT-2	9/20/2005	µg/L	9.03	<1.00	**40**	NA	NA	NA	NA	27.8	NA	<1.00	**4360**	NA	<1.00	**46.2**	<1.00	NA
MW-10/MWT-2	12/12/2005	µg/L	11.7	<1.00	**14.4**	NA	NA	NA	NA	23.2	NA	<1.00	**3050**	NA	<1.00	**45.2**	<1.00	NA
MW-10/MWT-2	3/28/2006	µg/L	6.1	<1.00	**13.4**	NA	NA	NA	NA	16.8	NA	<1.00	**3090**	NA	<1.00	**27.4**	<1.00	NA
MW-10/MWT-2	6/26/2006	µg/L	<20	<20	<20	NA	NA	NA	NA	21	NA	<20	**1800**	NA	<20	**31**	<20	NA
MW-10/MWT-2	10/21/2006	µg/L	<100	<100	<100	NA	NA	NA	NA	**121**	NA	<100	**3380**	NA	<100	<100	**114**	NA
MW-10/MWT-2	1/12/2007	µg/L	1.22	<1.00	2.08	NA	NA	NA	NA	12.4	NA	<1.00	**2980**	NA	<1.00	**32.7**	<1.00	NA
MW-10/MWT-2	1/9/2008	µg/L	10.9	<1.00	**24.1**	NA	NA	NA	NA	**89.1**	NA	<1.00	**3250**	NA	<1.00	**71.9**	<1.00	NA
MW-10/MWT-2	11/4/2009	µg/L	1.49	1.56	**82.2**	NA	NA	NA	NA	**1120**	NA	<1.00	**1600**	NA	1.22	**33.9**	<1.00	NA
MW-10/MWT-2	4/29/2010	µg/L	<1.00	<1.00	2.85	NA	NA	NA	NA	**104**	NA	<1.00	**53.8**	NA	<1.00	3.22	<1.00	NA
MW-10/MWT-2	10/25/2010	µg/L	<10.0	<10.0	**108**	NA	NA	NA	NA	**1270**	NA	<10.0	**1150**	NA	<10.0	**129**	<10.0	NA
MW-10/MWT-2	5/24/2011	µg/L	<20	<20	<20	NA	NA	NA	NA	**390**	NA	<20	**2000**	<20	<20	**88**	<40.0	<200
MW-10/MWT-2	11/9/2011	µg/L	<5.00	8.8	**285**	NA	NA	NA	NA	**4250**	NA	<5.00	**4670**	NA	<5.00	**154**	<5.00	NA
MW-10/MWT-2	5/8/2012	µg/L	3.7	<1.00	**7.83**	NA	NA	NA	NA	**885**	NA	<1.00	**1810**	NA	17.1	**386**	<1.00	NA
MW-10	3/5/2014	µg/L	<0.34	<0.26	0.36 J	<0.24	<0.26	<0.2	<0.31	13.9	<0.36	<2	**93.2**	<0.2	<0.34	**15.1**	<0.33	<0.66
MW-10	10/29/2014	µg/L	<0.34	0.37 J	**32.7**	<0.24	<0.26	<0.2	<0.31	**664**	<0.36	<2	**136**	2.6	0.51 J	**36.9**	<0.33	<0.66
MW-10	4/22/2015	µg/L	<0.26	<0.2	5.2	<0.2	<0.22	<0.29	<0.3	**98.8**	<0.2	<2	**54.1**	<0.4	<0.21	**7.8**	<0.25	<0.51
MW-10	10/26/2015	µg/L	<0.26	0.49 J	**30.3**	0.22 J	<0.22	<0.29	<0.3	**506**	<0.2	<2	**66.4**	1.1	0.25 J	**45.2**	0.5 J	<0.51
MW-10	4/12/2016	µg/L	<0.2	<0.26	6.7	<0.28	<0.24	<0.23	<0.3	**90.8**	<0.26	<2	**43.3**	1.2	<0.33	**22.1**	<0.31	<0.56
MW-10	10/25/2016	µg/L	<0.2	<0.26	**9**	<0.28	<0.24	<0.23	<0.3	**146**	<0.26	<2	**41.4**	7.2	0.49 J	**13.5**	<0.31	<0.56
MW-10	4/10/2017	µg/L	<0.25	<0.34	0.95 J	<0.31	<0.24	<0.53	<0.3	41	<0.28	<2	**51.6**	1.2	0.32 J	**44.3**	<0.41	<0.72
MW-10	10/17/2017	µg/L	<0.25	<0.34	**23.7**	<0.31	<0.24	<0.53	<0.3	**350**	<0.28	<2	**149**	<0.3	0.26 J	**70.9**	<0.41	<0.72
MW-10	5/9/2018	µg/L	0.26 J	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	**136**	<0.28	<2	**180**	<0.3	0.42 J	**98.6**	<0.41	<0.72
MW-10	10/30/2018	µg/L	<2.5	<3.4	**8.2**	<3.1	<2.4	<5.3	<3	**135**	<2.8	<20	**1550**	<3	<2.2	**98.3**	<4.1	<7.2
MW-10	4/23/2019	µg/L	<0.25	<0.34	3	<0.31	<0.24	<0.53	<0.3	**72.6**	<0.28	<2	**82.8**	<0.3	<0.22	**28.3**	<0.41	<0.72
MW-10	10/16/2019	µg/L	0.53 J	1.4	**59.1**	<0.31	<0.24	<0.53	<0.3	**1980**	<0.28	<2	**409**	<0.3	0.64 J	**482**	<0.41	<0.72
MW-10	4/15/2020	µg/L	<0.25	<0.34	**7.4**	<0.31	<0.24	<0.53	<0.3	**78.1**	<0.28	<2	**70.3**	<0.3	<0.22	**32.8**	<0.41	<0.72
MW-10	10/20/2020	µg/L	<0.5	<0.68	**9.4**	<0.62	<0.48	<1.1	<0.6	**180**	<0.55	<4	**494**	1.5 J	<0.44	**99.5**	<0.82	<1.4
MW-10	4/13/2021	µg/L	<2.5	<3.4	5.7 J	<3.1	<2.4	<5.3	<3	**105**	<2.8	<20	**66.8**	<3	<2.2	**25.2**	<4.1	<7.2
MW-10	10/18/2021	µg/L	<0.5	<0.68	**30.1**	<0.62	<0.48	<1.1	<0.6	**396**	<0.55	<4	**90.8**	0.76 J/B/T	0.48 J	**94.2**	<0.82	<1.4
MW-10	4/13/2022	ug/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	ug/l	<12	<17	**120**	<16	<12	<27	<15	**2830**	<14	122 J	**181**	<15	<11	**131**	<20	<36
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	ug/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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-11	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	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-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-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	ug/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	ug/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-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	ug/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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-14	11/5/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	4/30/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	10/25/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	5/23/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-14	11/8/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	5/9/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	2/26/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-14	10/28/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-14	4/20/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.46 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14	10/28/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.72 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14	4/13/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.9	<0.2	<0.33	<0.27	<0.31	<0.56
MW-14	10/26/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.66 J	<0.2	<0.33	<0.27	<0.31	<0.56
MW-14	4/11/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/17/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.9	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	5/10/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.3	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/29/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	4/23/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/15/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.74 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/20/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/19/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.4 /B/T	<0.22	<0.35	<0.41	<0.72
MW-14	10/27/2022	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	ug/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	ug/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-15	5/25/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15	6/28/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15	11/8/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	5/8/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	2/25/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	10/29/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	4/22/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15	10/26/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15	4/11/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15	10/25/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15	4/11/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/16/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.6	<0.22	<0.35	<0.41	<0.72
MW-15	5/7/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/29/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	4/22/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/14/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	4/14/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/19/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/26/2022	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	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-15D	5/25/2011	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15D	6/28/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15D	11/8/2011	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	5/8/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	2/25/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	0.24 J	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	10/29/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	4/22/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	10/26/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	4/11/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	10/25/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	4/11/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/16/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/29/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/14/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/19/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/26/2022	ug/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	ug/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
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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	5/25/2011	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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-17	3/10/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-17	10/29/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-17	4/21/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-17	10/27/2015	µg/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-17	10/26/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-17	10/16/2017	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	10/31/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	10/20/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	10/26/2022	ug/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	ug/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-19	3/6/2014	µg/L	<67	<51	<51	<48	<52	<40	<62	<65	<72	639 J	**14000**	<40	<69	<60	<65	<130
MW-19	10/28/2014	µg/L	16 J	<5.1	**12 J**	<4.8	<5.2	<4	<6.2	<6.5	<7.2	<40	**3470**	<4	<6.9	<6	<6.5	<13
MW-19	4/21/2015	µg/L	19.8 J	<4	**15.6 J**	<4	<4.3	<5.9	<6	12.5 J	<4	<40	**4170**	<8	<4.2	**5.5 J**	<5	<10
MW-19	10/28/2015	µg/L	34.6	<5	**21.6 J**	<5	<5.4	<7.4	<7.5	<5.5	<5	<50	**8040**	<10	<5.2	<5.4	<6.3	<13
MW-19	4/12/2016	µg/L	97.5	<26	39.1	<28	<24	<23	<30	<31	<26	221	**16600**	<20	<33	<27	<31	<56
MW-19	10/24/2016	µg/L	245	<51	<43	<57	<48	<46	<60	<62	<52	<400	**34600**	<40	<66	<54	<63	<110
MW-19	4/11/2017	µg/L	180 J	<85	<81	<78	<61	<130	<75	<69	<69	<500	**24600**	<75	<55	<86	<100	<180
MW-19	10/18/2017	µg/L	74.9 J	<85	<81	<78	<61	<130	**299**	<69	<69	<500	**18700**	<75	<55	<86	<100	<180
MW-19	5/9/2018	µg/L	69.5 J	<85	<81	<78	<61	<130	**92.4 J**	<69	<69	<500	**18700**	<75	<55	<86	<100	<180
MW-19	11/1/2018	µg/L	92.9	<0.34	**36.1**	<0.31	<0.24	<0.53	0.41	6.8	<0.28	<2	**21500**	0.39	<0.22	11.2	<0.41	<0.72
MW-19	4/22/2019	µg/L	95.2	<85	<81	<78	<61	<130	<75	<69	<69	<500	**24400**	<75	<55	<86	<100	<180
MW-19	10/16/2019	µg/L	**230 J**	<85	<81	<78	<61	<130	<75	<69	<69	<500	**37400**	<75	<55	<86	<100	<180
MW-19	7/15/2020	µg/L	<120	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**29800**	<150	<110	<170	<200	<360
MW-19	10/20/2020	µg/L	**263 J**	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**45600**	<150	<110	<170	<200	<360
MW-19	4/12/2021	µg/L	<120	<170	<160	<160	<120	<270	<150	<140	<140	<1000	**53900**	<150	<110	<170	<200	<360
MW-19	10/18/2021	µg/L	**366 J**	<340	<320	<310	<240	<530	<300	<280	<280	<2000	**47500**	<300	<220	<350	<410	<720
MW-19	4/14/2022	ug/l	<250	<340	<320	<310	<240	<530	<300	<280	<280	2680 J	**52400**	<300	<220	<350	<410	<720
MW-19	11/15/2022	ug/l	<250	<340	<320	<310	<240	<530	<300	<280	<280	4750 J	**18900**	<300	<220	<350	<410	<720
MW-20	3/6/2014	µg/L	<3.4	<2.6	<2.5	<2.4	<2.6	<2	<3.1	4 J	<3.6	<20	**648**	<2	<3.4	**5 J**	<3.3	<6.6
MW-20	10/28/2014	µg/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	<1.6	<1.8	<10	**428**	<1	<1.7	2.7 J	<1.6	<3.3
MW-20	4/21/2015	µg/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	2.6 J	<1	<10	**452**	<2	<1	4.2 J	<1.3	<2.6
MW-20	10/28/2015	µg/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	<1.1	<1	11.1 J	**623**	<2	<1	4.6 J	<1.3	<2.6
MW-20	4/12/2016	µg/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.72	<0.26	<2	**480**	<0.2	<0.33	3.2	<0.31	<0.56
MW-20	10/24/2016	µg/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	<3.1	<2.6	<20	**503**	<2	<3.3	<2.7	<3.1	<5.6
MW-20	4/11/2017	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	1.5 J	<1.4	<10	**438**	<1.5	<1.1	3.1 J	<2	<3.6
MW-20	10/18/2017	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	4.8 J	<1.4	<1.4	<10	**312**	<1.5	<1.1	2.2 J	<2	<3.6
MW-20	5/9/2018	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	3.3 J	<1.4	<10	**388**	<1.5	<1.1	3.9 J	<2	<3.6
MW-20	11/1/2018	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	2.2	<0.28	<2	**462**	<0.3	<0.22	3.7	<0.41	<0.72
MW-20	4/22/2019	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	<1.4	<1.4	<10	**466**	<1.5	<1.1	3.6	<2	<3.6
MW-20	10/16/2019	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**194**	<0.75	<0.55	1.9 J	<1	<1.8
MW-20	10/20/2020	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**271**	<0.75	<0.55	3.6	<1	<1.8
MW-20	4/12/2021	µg/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	<1.4	<1.4	<10	**222**	<1.5	<1.1	3.1 J	<2	<3.6
MW-20	10/18/2021	µg/L	<0.62	<0.85	<0.81	<0.78	<0.61	<1.3	<0.75	2.1 J	<0.69	<5	**187**	<0.75	<0.55	3.6	<1	<1.8
MW-20	4/14/2022	ug/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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-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	ug/l	<50	<68	<64	<62	<48	<110	<60	**791**	<55	409 J	**10300**	<60	<44	**296**	**300**	<140
MW-21	10/26/2022	ug/l	<50	<68	<64	<62	<48	<110	<60	**666**	<55	<400	**8320**	<60	<44	**254**	<82	<140
MW-21D	3/11/2014	µg/L	<0.67	<0.51	1.5 J	<0.48	10.4	1.8 J	**131**	0.84 J	1.8 J	13.3	**283**	0.41 J	<0.69	<0.6	<0.65	<1.3
MW-21D	10/28/2014	µg/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-21D	4/20/2015	µg/L	<0.26	<0.2	0.89 J	<0.2	<0.22	<0.29	<0.3	0.3 J	<0.2	<2	**29.4**	<0.4	<0.21	<0.22	<0.25	<0.51
MW-21D	10/27/2015	µg/L	<0.26	<0.2	0.36 J	<0.2	<0.22	<0.29	<0.3	0.23 J	<0.2	2.2 J	**90.8**	<0.4	<0.21	<0.22	<0.25	<0.51
MW-21D	4/12/2016	µg/L	<0.2	<0.26	0.49	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	**8.6**	<0.2	<0.33	<0.27	<0.31	<0.56
MW-21D	10/25/2016	µg/L	<0.5	<0.64	1.2 J	<0.71	<0.6	<0.58	<0.75	<0.78	<0.65	<5	**169**	<0.5	<0.83	<0.68	<0.79	<1.4
MW-21D	4/12/2017	µg/L	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	0.74 J	<0.28	<2	**74.6**	<0.3	<0.22	0.39 J	<0.41	<0.72
MW-21D	10/18/2017	µg/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	0.81 J	<0.28	<2	**72.9**	<0.3	<0.22	0.38 J	<0.41	<0.72
MW-21D	5/9/2018	µg/L	<0.25	<0.34	1.6	<0.31	<0.24	<0.53	<0.3	0.52 J	<0.28	<2	**109**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	11/1/2018	µg/L	<0.5	<0.68	1.1	<0.62	<0.48	<1.1	<0.6	0.89	<0.55	<4	**357**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-21D	4/23/2019	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	0.44	<0.28	<2	**38.7**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	10/16/2019	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**83.8**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	**9.6**	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	10/20/2020	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	ug/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	ug/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-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	ug/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	ug/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-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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
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	ug/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	ug/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-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	ug/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	ug/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-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	ug/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	ug/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-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	ug/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-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	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-30D	4/13/2017	µg/L	<0.25	<0.34	2.3	<0.31	<0.24	<0.53	0.41 J	0.64 J	<0.28	<2	**75.2**	<0.3	<0.22	0.87 J	<0.41	<0.72
MW-30D	10/18/2017	µg/L	<0.25	<0.34	2.1	<0.31	<0.24	<0.53	<0.3	0.43 J	<0.28	<2	**88.1**	<0.3	<0.22	0.49 J	<0.41	<0.72
MW-30D	5/8/2018	µg/L	<0.25	<0.34	3.1	<0.31	<0.24	0.65 J	<0.3	0.97 J	<0.28	<2	**86.7**	<0.3	<0.22	1.1	<0.41	<0.72
MW-30D	10/29/2018	µg/L	<0.25	<0.34	3.3	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**140**	<0.3	<0.22	1	<0.41	<0.72
MW-30D	4/22/2019	µg/L	<0.5	<0.68	2.4	<0.62	<0.48	<1.1	<0.6	1	<0.55	<4	**149**	<0.6	<0.44	<0.69	<0.82	<1.4
MW-30D	10/14/2019	µg/L	<0.5	<0.68	2.3	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**107**	<0.6	<0.44	0.77 J	<0.82	<1.4
MW-30D	4/14/2020	µg/L	<0.25	<0.34	1.2	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	**67.9**	<0.3	<0.22	1.3	<0.41	<0.72
MW-30D	10/19/2020	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	ug/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	ug/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-31D	4/13/2017	µg/L	<0.25	<0.34	3.1	<0.31	0.82 J	<0.53	1.8	<0.28	<0.28	<2	**89.2**	<0.3	<0.22	0.41 J	<0.41	2.6 J
MW-31D	10/18/2017	µg/L	<0.25	<0.34	4.7	<0.31	<0.24	<0.53	<0.3	2	<0.28	<2	**161**	<0.3	<0.22	0.61 J	<0.41	<0.72
MW-31D	5/8/2018	µg/L	<0.25	<0.34	6	<0.31	<0.24	<0.53	<0.3	2.5	<0.28	<2	**181**	<0.3	<0.22	1	<0.41	<0.72
MW-31D	10/29/2018	µg/L	<0.5	<0.68	4.8	<0.62	<0.48	<1.1	<0.6	2.6	<0.55	<4	**230**	<0.6	<0.44	0.87	<0.82	<1.4
MW-31D	4/22/2019	µg/L	<0.62	<0.85	4	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**232**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	10/14/2019	µg/L	<0.62	<0.85	4.4	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**192**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	4/14/2020	µg/L	<0.62	<0.85	3.2	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**130**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	10/19/2020	µg/L	<0.62	<0.85	3	<0.78	<0.61	<1.3	<0.75	<0.69	<0.69	<5	**144**	<0.75	<0.55	<0.86	<1	<1.8
MW-31D	4/12/2021	µg/L	<0.62	<0.85	2.6	<0.78	<0.61	<1.3	<0.75	0.47 J	<0.69	<5	**92.2**	<0.75	<0.55	0.43 J	<1	<1.8
MW-31D	10/19/2021	µg/L	<0.5	<0.68	3.4	<0.62	<0.48	<1.1	<0.6	<0.55	<0.55	<4	**137**	1.1 J/B/T	<0.44	<0.69	<0.82	<1.4
MW-31D	4/13/2022	ug/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	ug/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-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	ug/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	ug/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-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	ug/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	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-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	ug/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	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	ug/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	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina

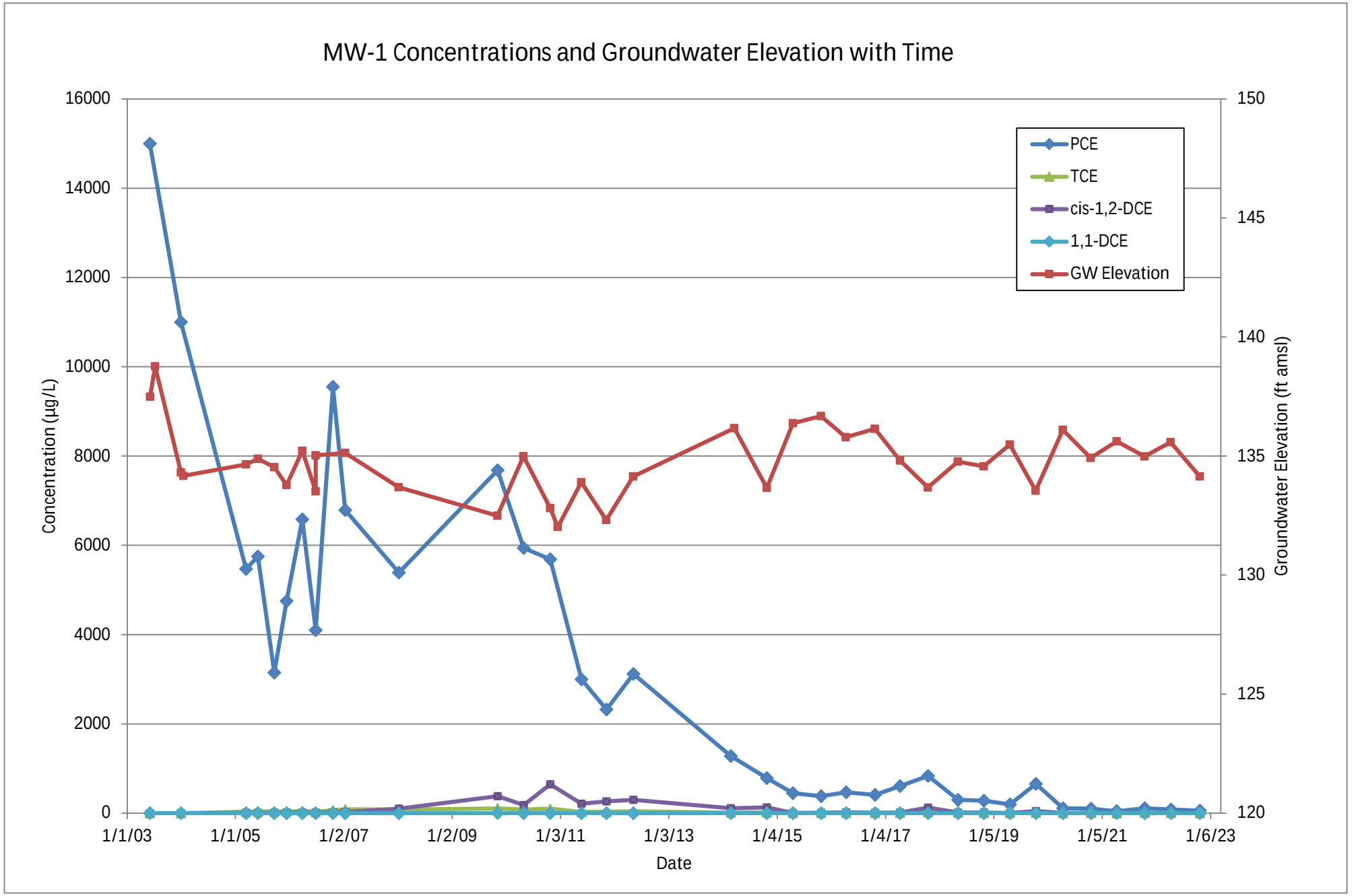
Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
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	ug/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	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-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	ug/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	ug/l	<120	<170	<160	<160	<120	<270	<150	<140	<140	2400 J	**16500**	<150	<110	<170	<200	<360
MWT-4	8/24/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	68.8	NA	<1.00	**136000**	8.79	2.03	**477**	<1.00	37
MWT-5	8/24/2012	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.03	<1.00	<1.00	<1.00	<1.00	<3.00
SW-01-LC	1/5/2018	µg/L	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	NA	2.4	NA	NA	<0.11	<0.11	NA
SW-01-LC	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.53 J	<0.3	<0.22	<0.35	<0.41	<0.72
SW-01-LC	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.44 J	<0.28	<2	2.9	<0.3	<0.22	<0.35	<0.41	<0.72
SW-01-LC	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.1	<0.3	<0.22	<0.35	<0.41	<0.72
SW-01-LC	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.8	<0.3	<0.22	<0.35	<0.41	<0.72
SW-02-LC	1/5/2018	µg/L	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	NA	<0.14	NA	NA	<0.11	<0.11	NA
SW-02-LC	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-02-LC	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-02-LC	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-02-LC	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-03-HMB	1/5/2018	µg/L	NA	NA	NA	NA	NA	NA	NA	<0.08	NA	NA	<0.14	NA	NA	<0.11	<0.11	NA
SW-03-HMB	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-03-HMB	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-03-HMB	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-03-HMB	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	0.84 J	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	4/15/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	10/21/2020	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	4/14/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-04-TLC	10/20/2021	µg/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
SW-1	6/5/2003	µg/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	1	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
SW-1	1/9/2008	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
SW-1	11/4/2009	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
SW-1	4/29/2010	µg/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA

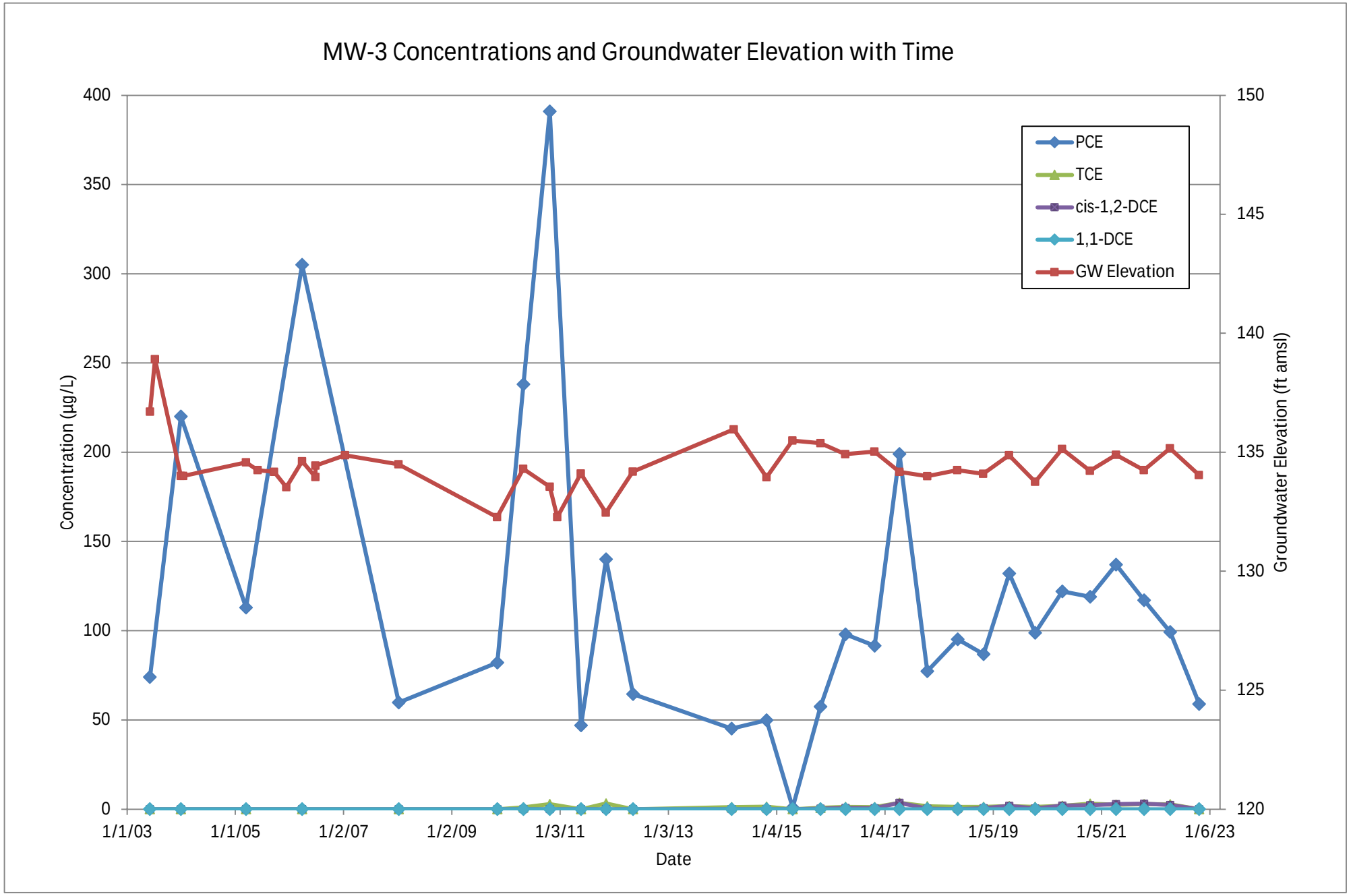
Notes:
µg/L - micrograms per liter NA - Not available/not analyzed NS - No standard

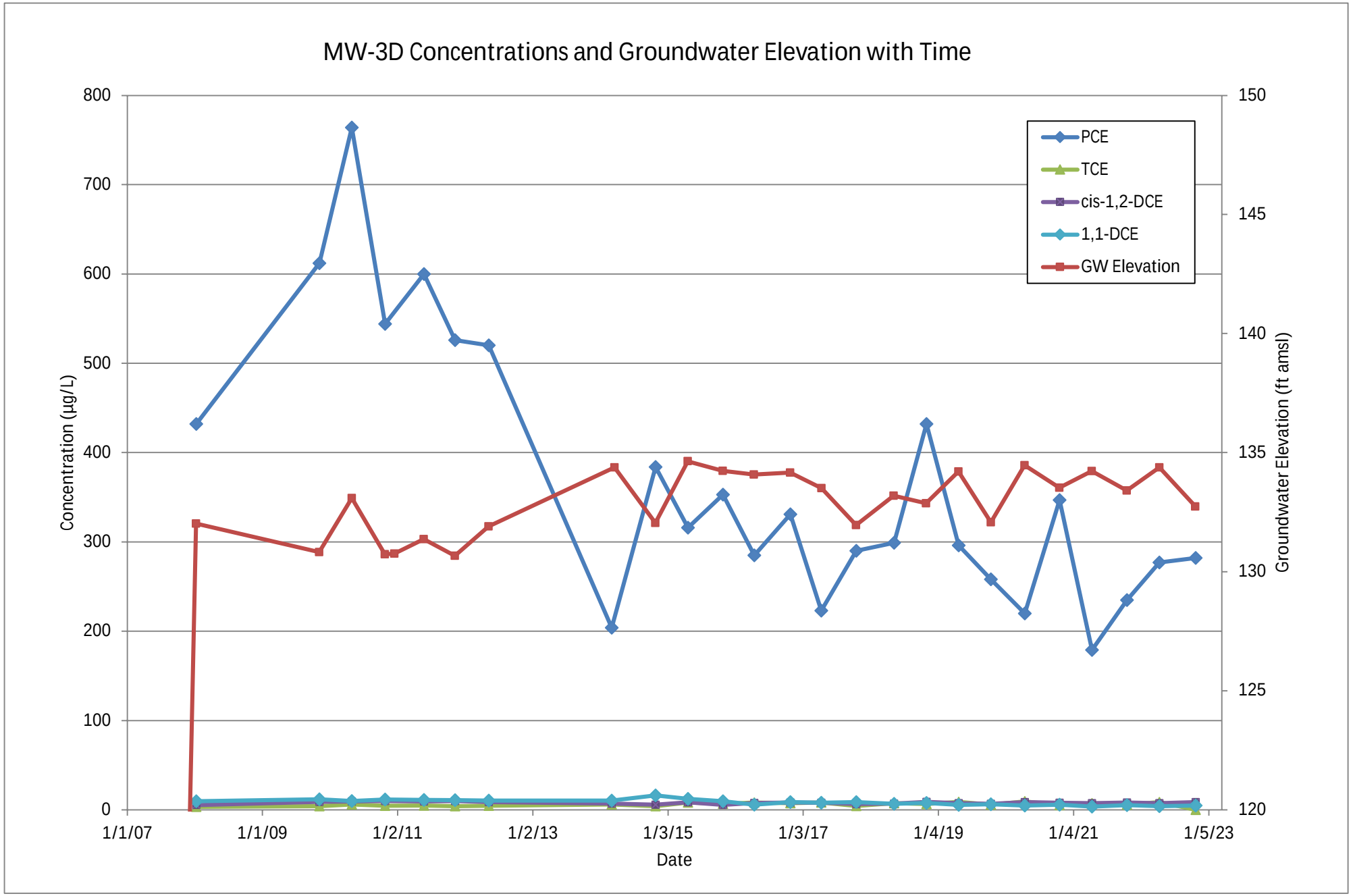
Data Qualifiers:
E - Indicates value exceeds calibration range
J - Estimated concentration above the method detection limit and below the reporting limit.
/J/A - The analyte was positively identified. The quantitation is estimation. Percent difference between the primary and duplicate sample exceeded the establishedcriteria.
/M/M - A matrix effect was present. Matrix spike recovery exceeded established criteria.
/M/m - A matrix effect was present. Matrix spike recovery below established criteria.
//h - Holding time exceeded by less than two times.

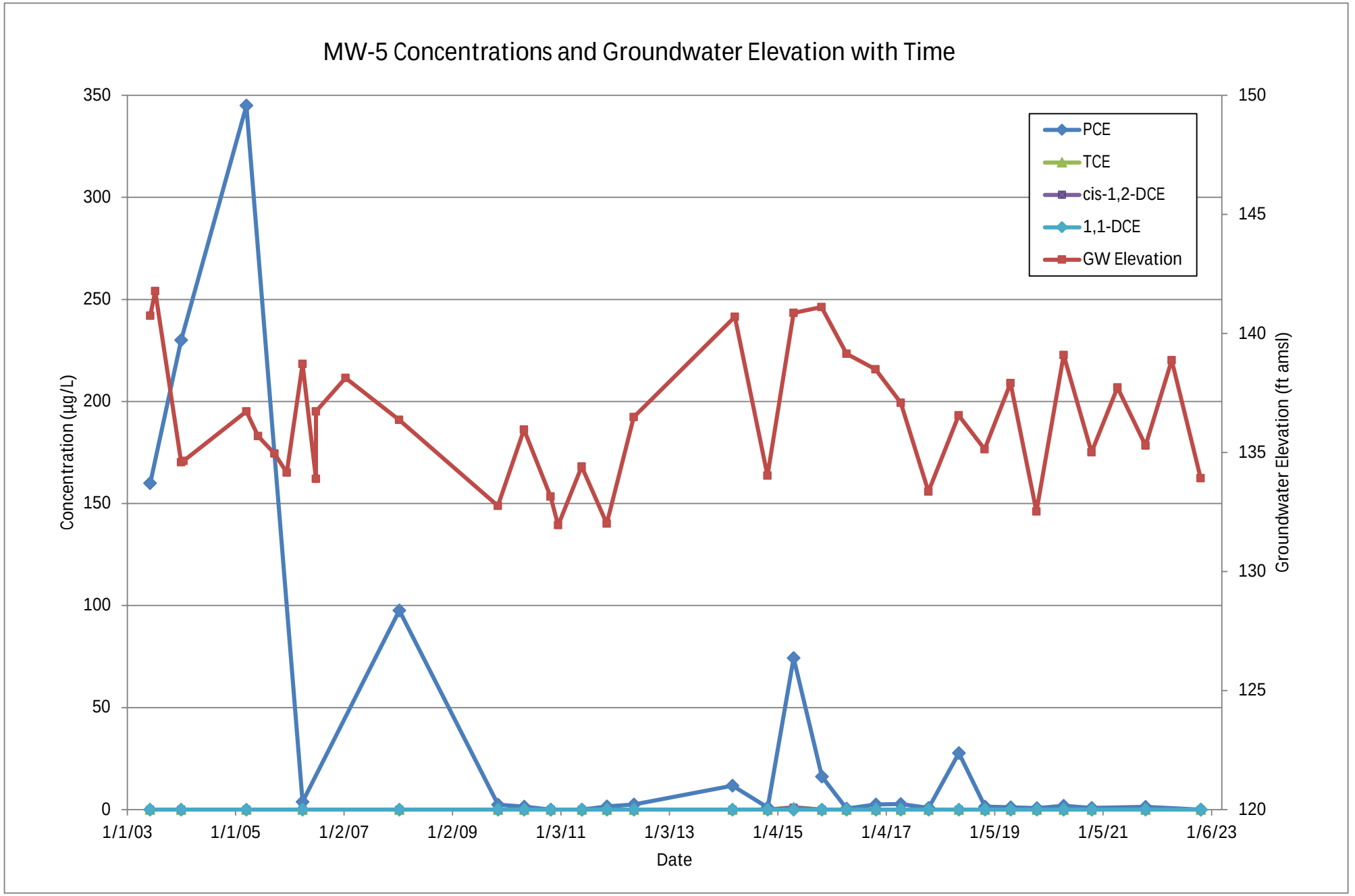
Appendix E

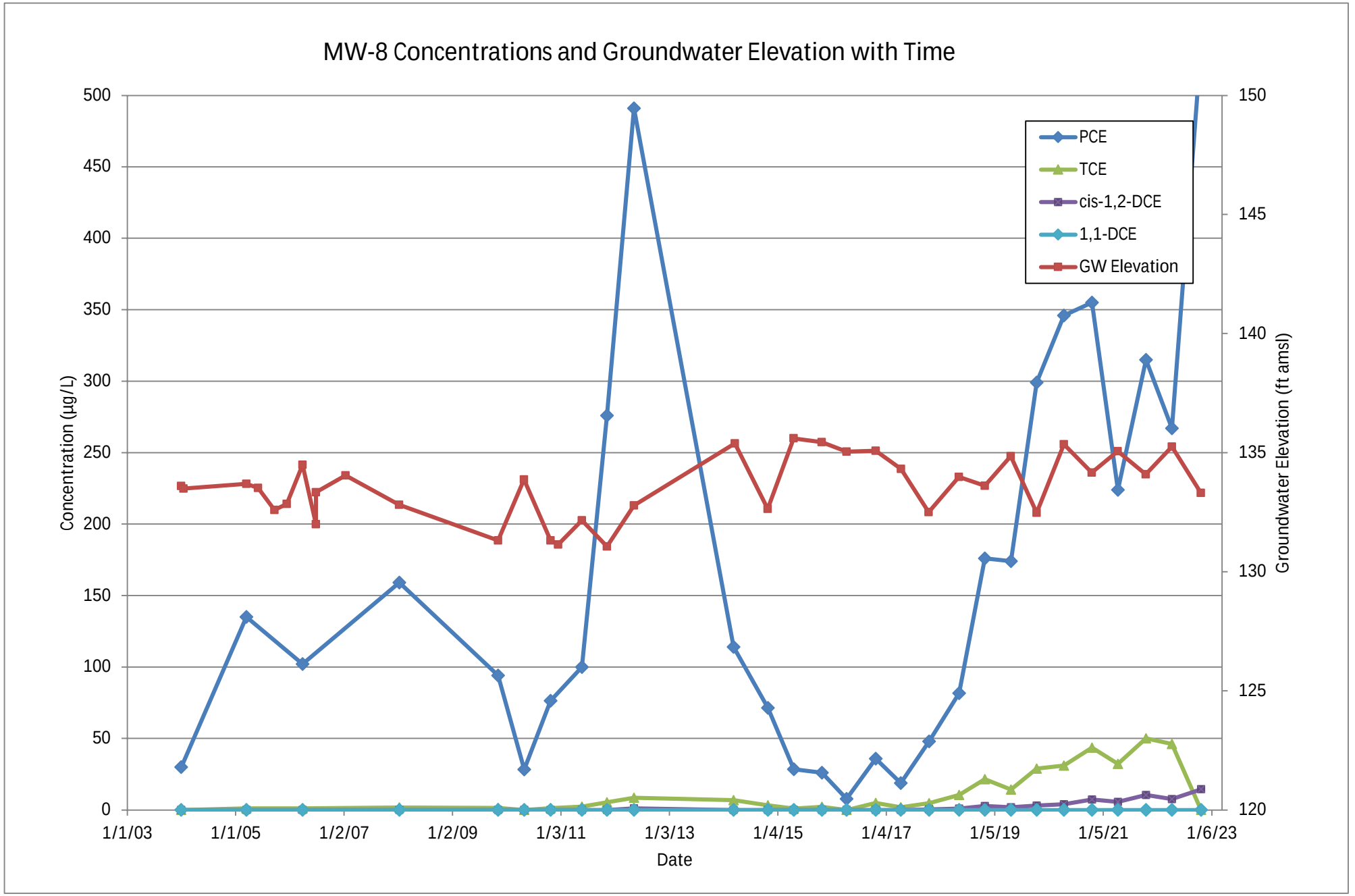
Trend Plots

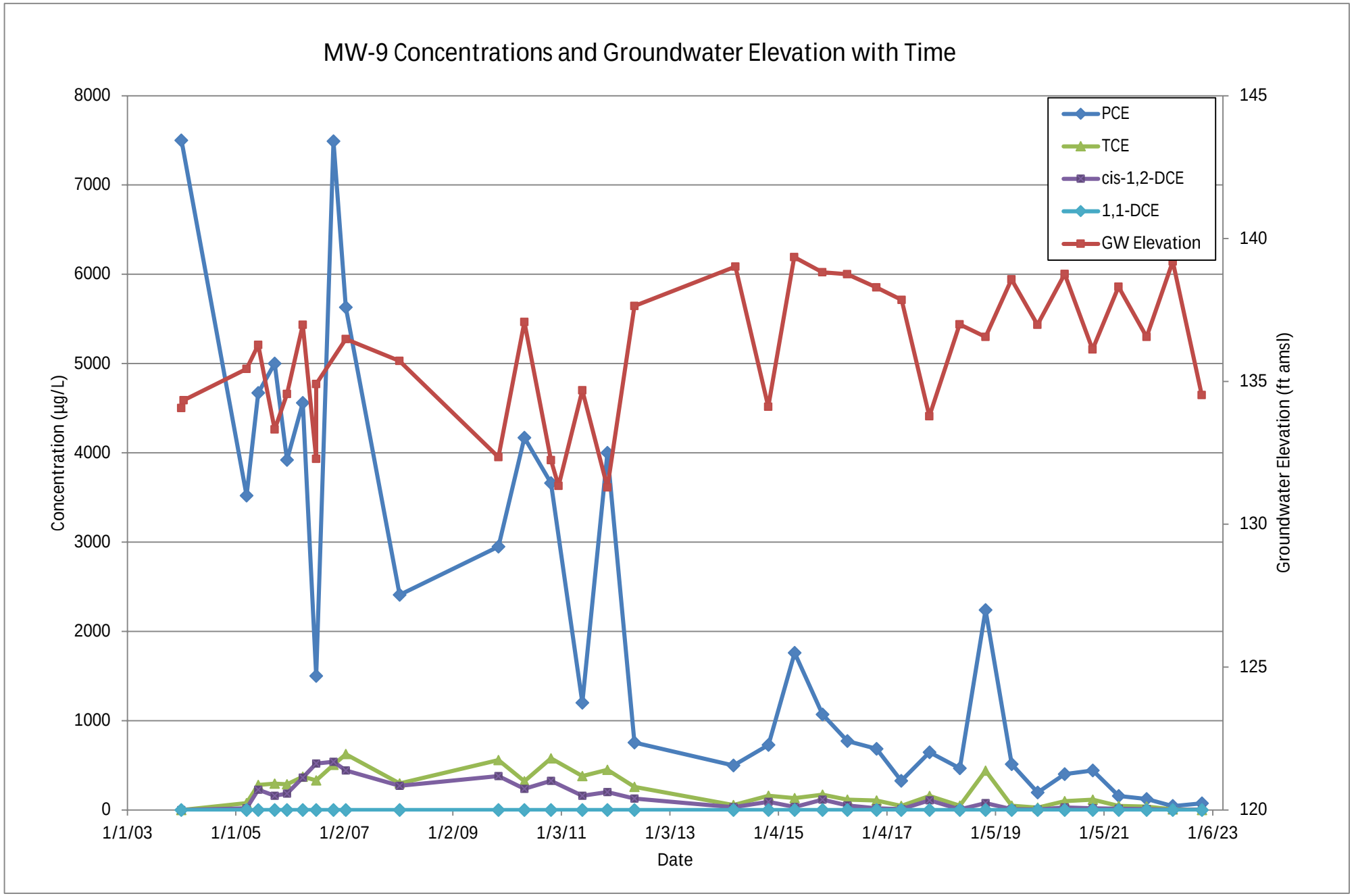

MW-1 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
16000
14000
12000
10000
8000
6000
4000
2000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

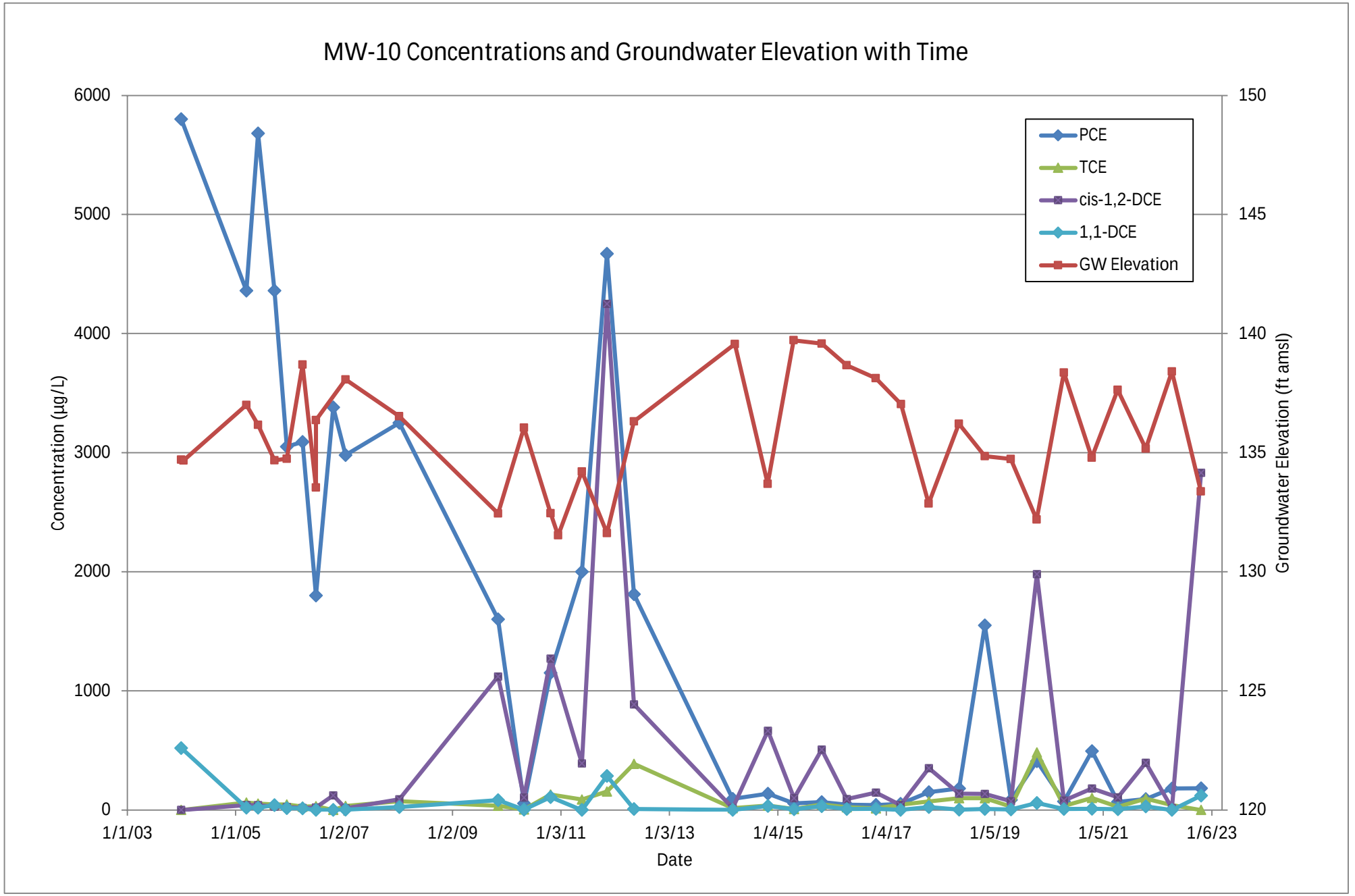

MW-3 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

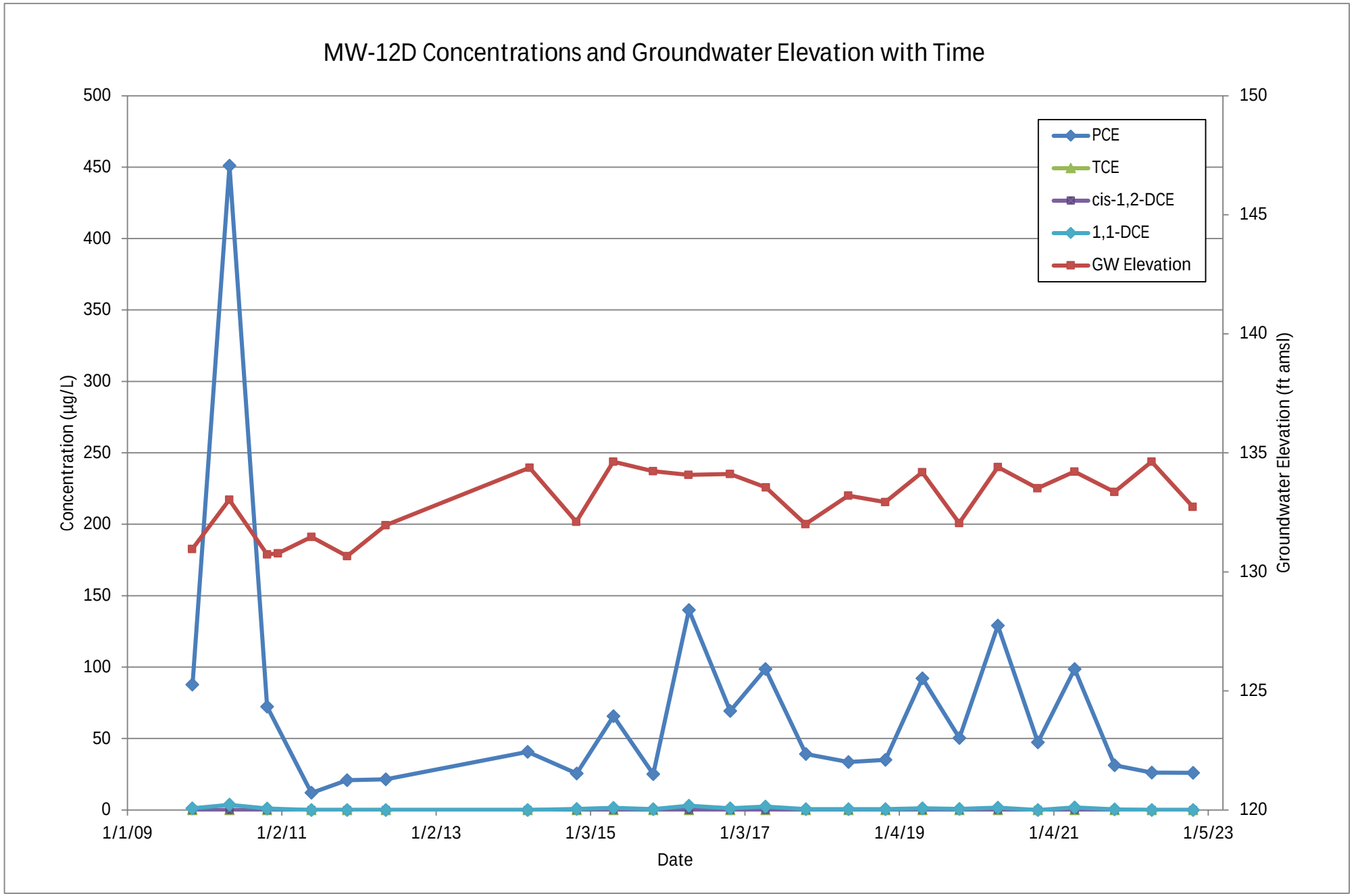

MW-3D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
800
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/07
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

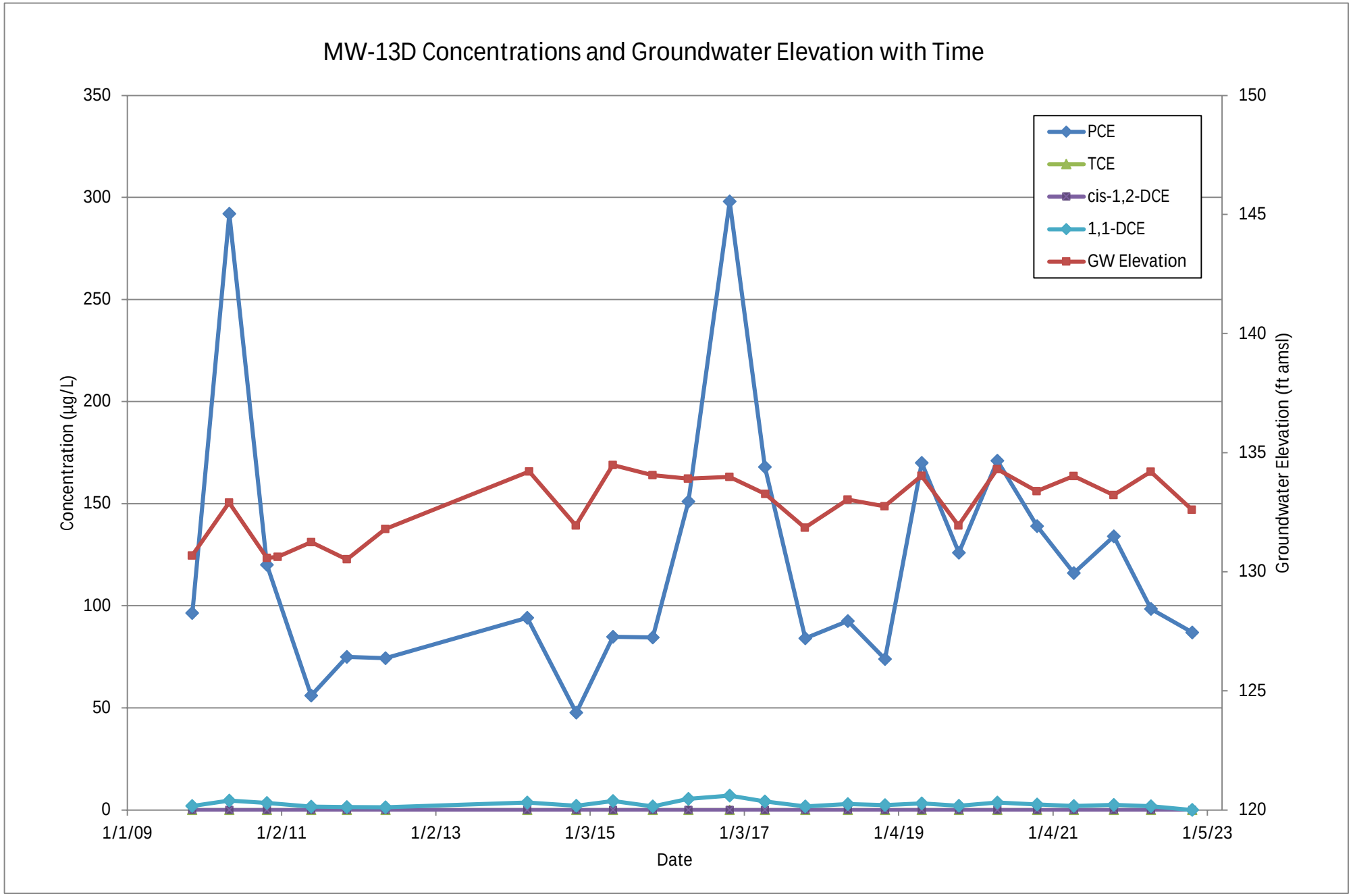

MW-5 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

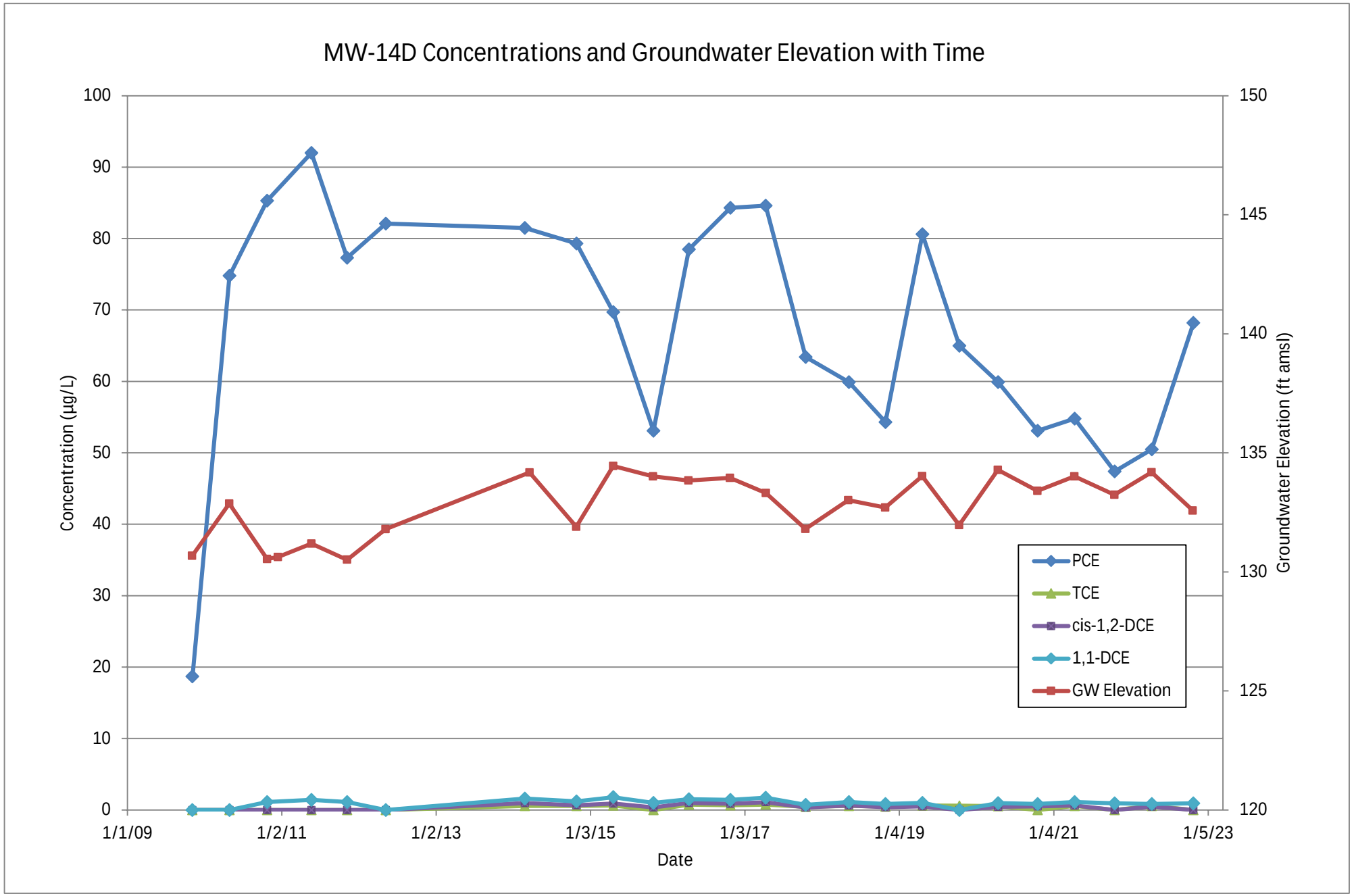

MW-8 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

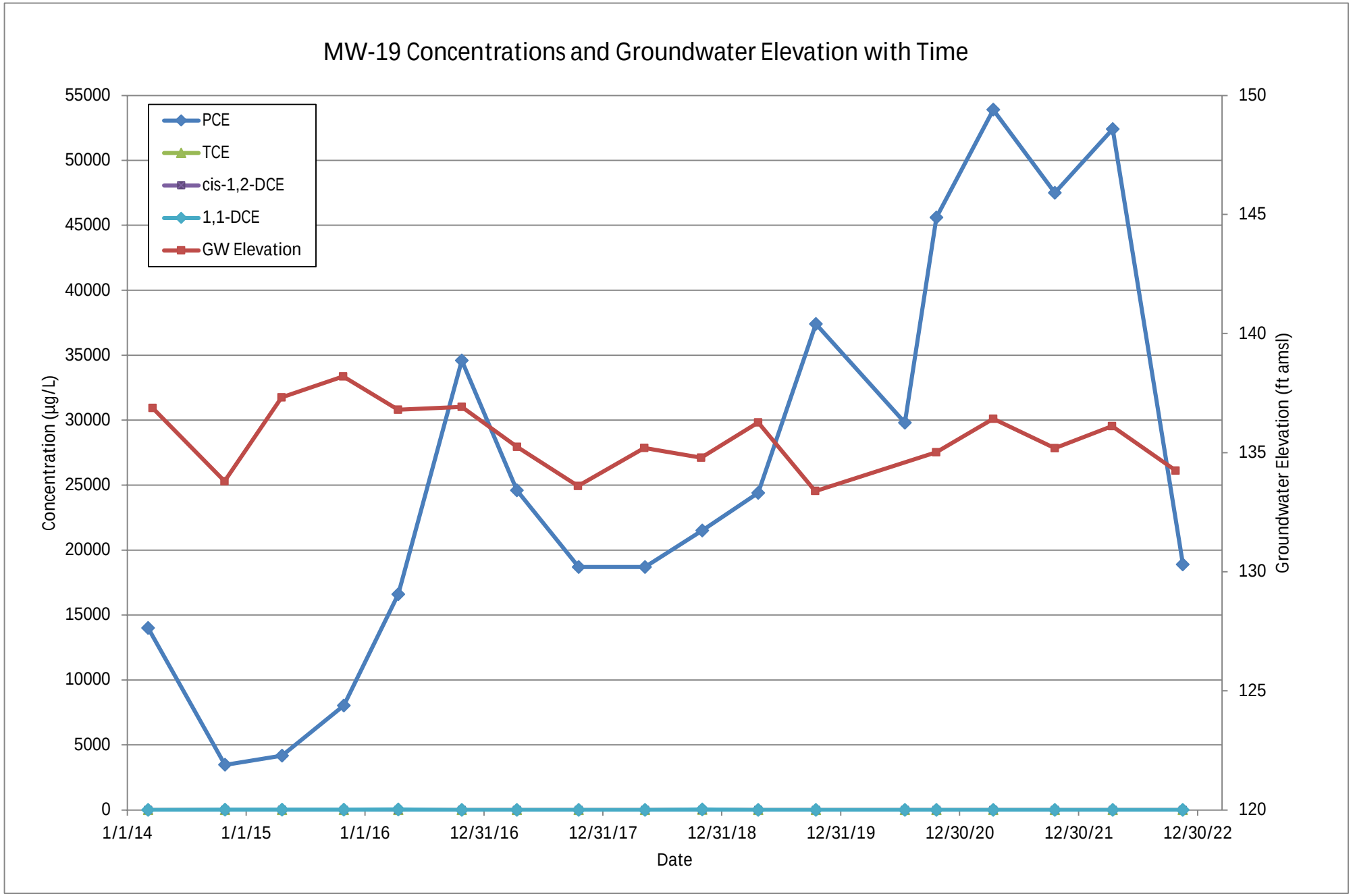

MW-9 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
8000
7000
6000
5000
4000
3000
2000
1000
0
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

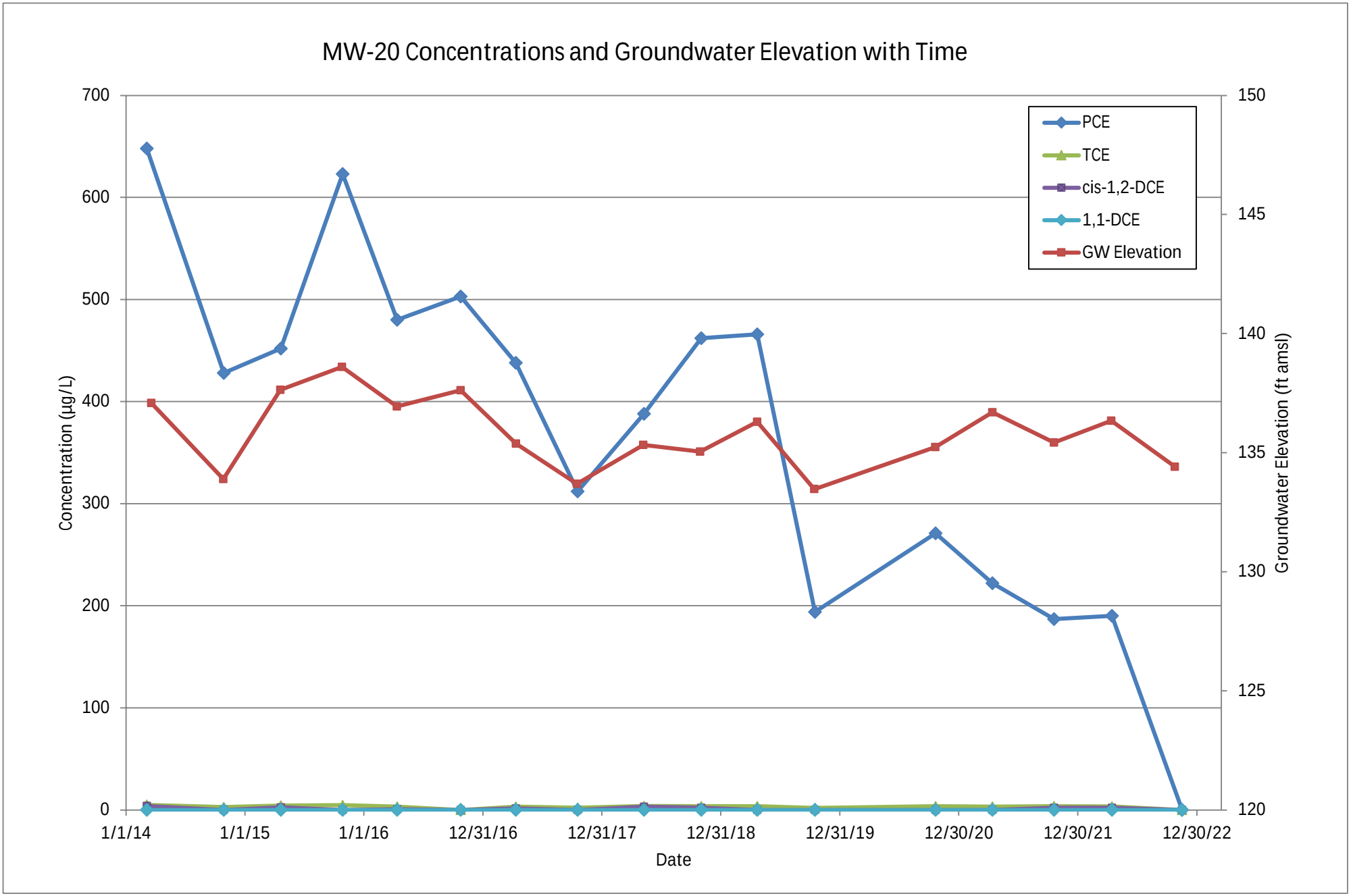

MW-10 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
6000
5000
4000
3000
2000
1000
0
150
145
140
135
130
125
120
1/1/03
1/1/05
1/2/07
1/2/09
1/3/11
1/3/13
1/4/15
1/4/17
1/5/19
1/5/21
1/6/23

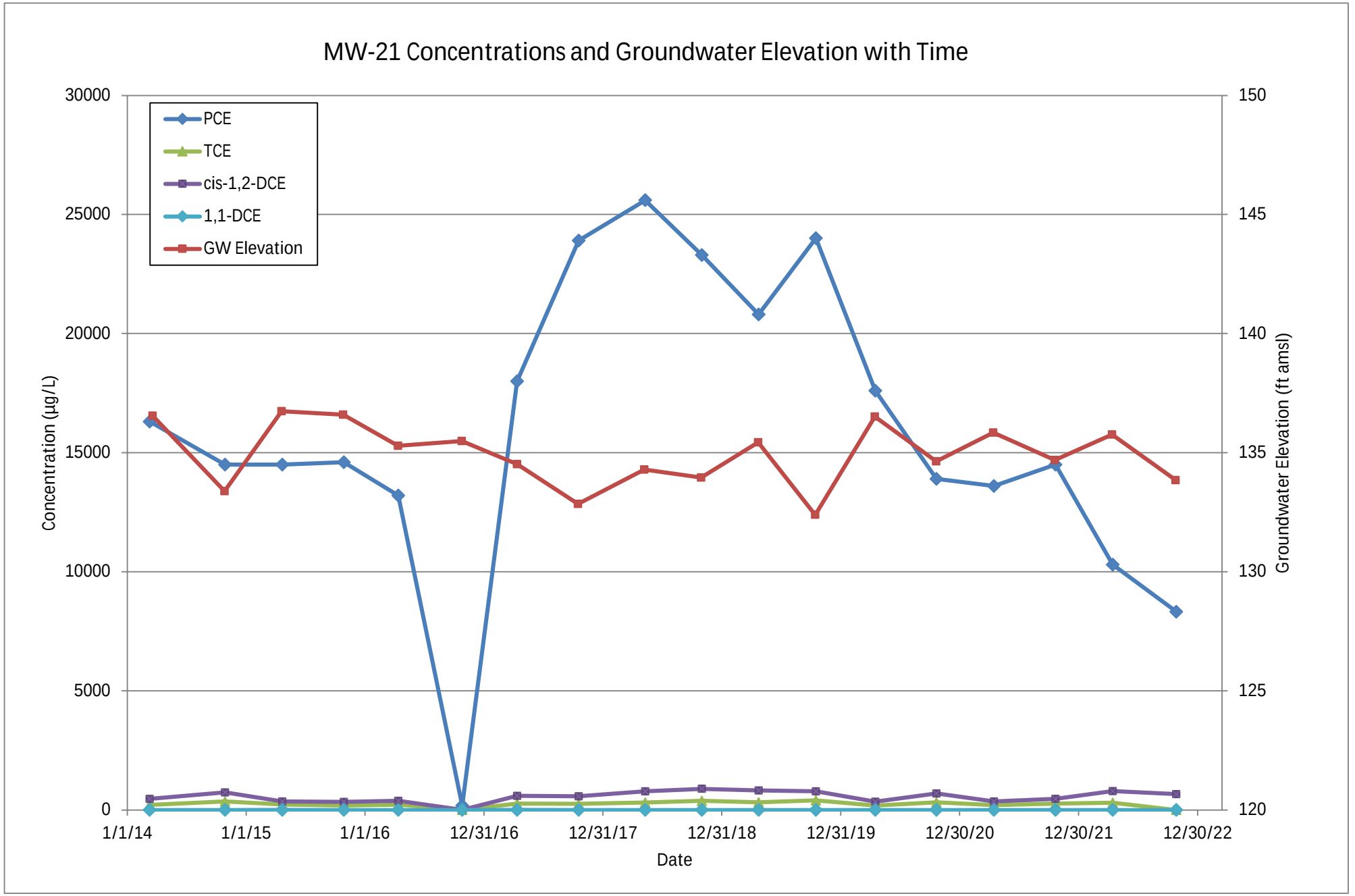

MW-12D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
500
450
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23

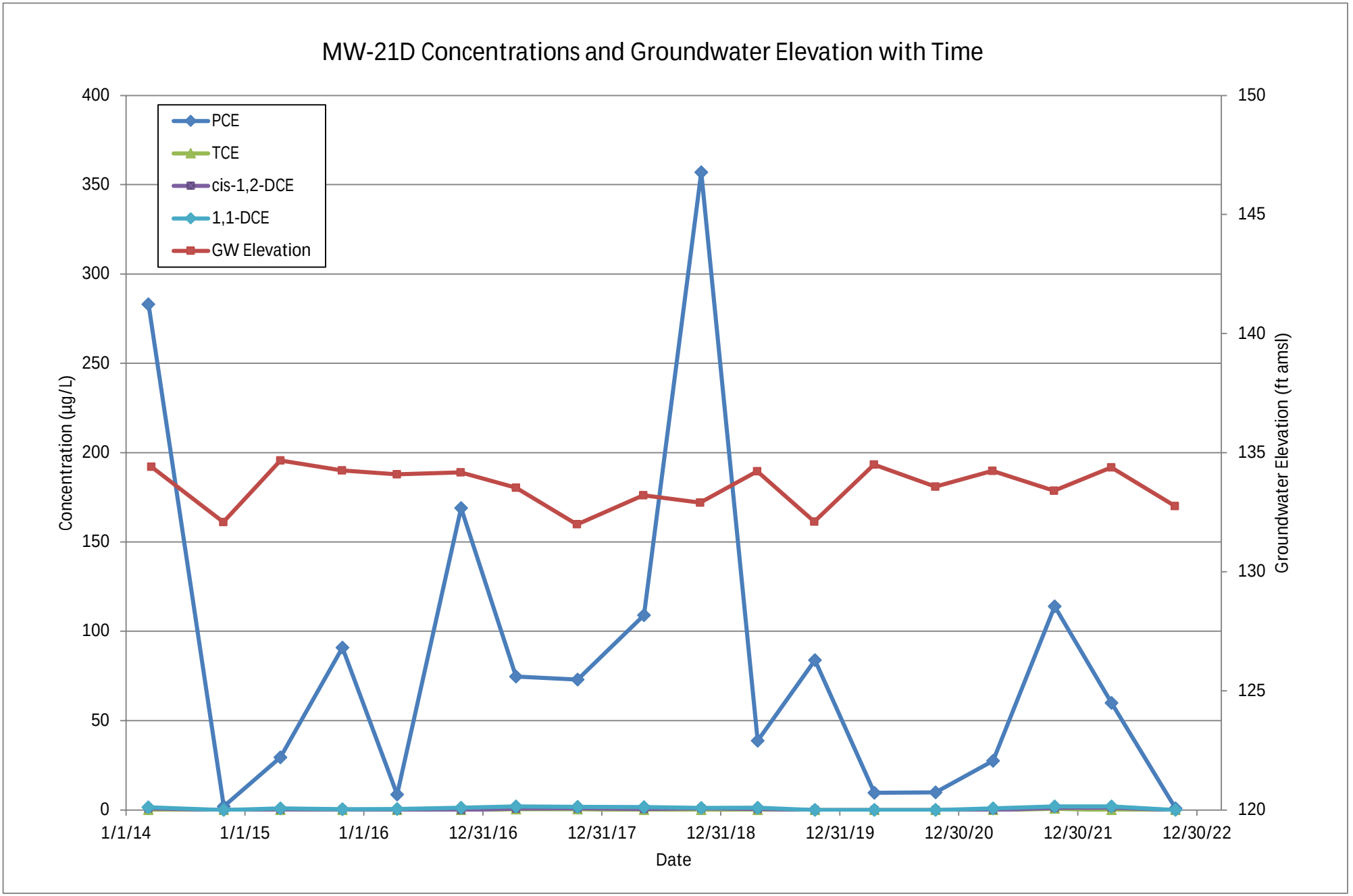

MW-13D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23

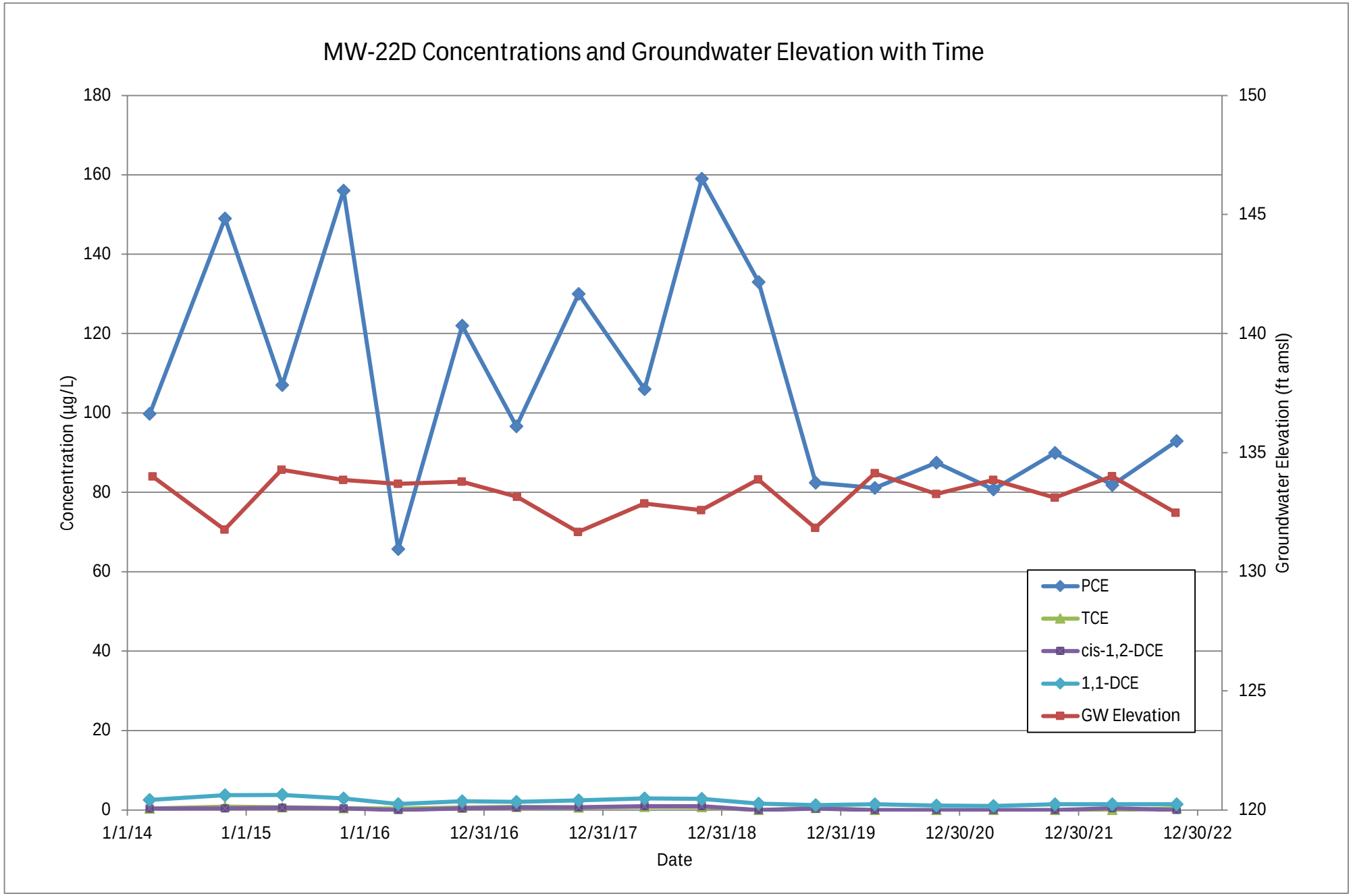

MW-14D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
100
90
80
70
60
50
40
30
20
10
0
150
145
140
135
130
125
120
1/1/09
1/2/11
1/2/13
1/3/15
1/3/17
1/4/19
1/4/21
1/5/23
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

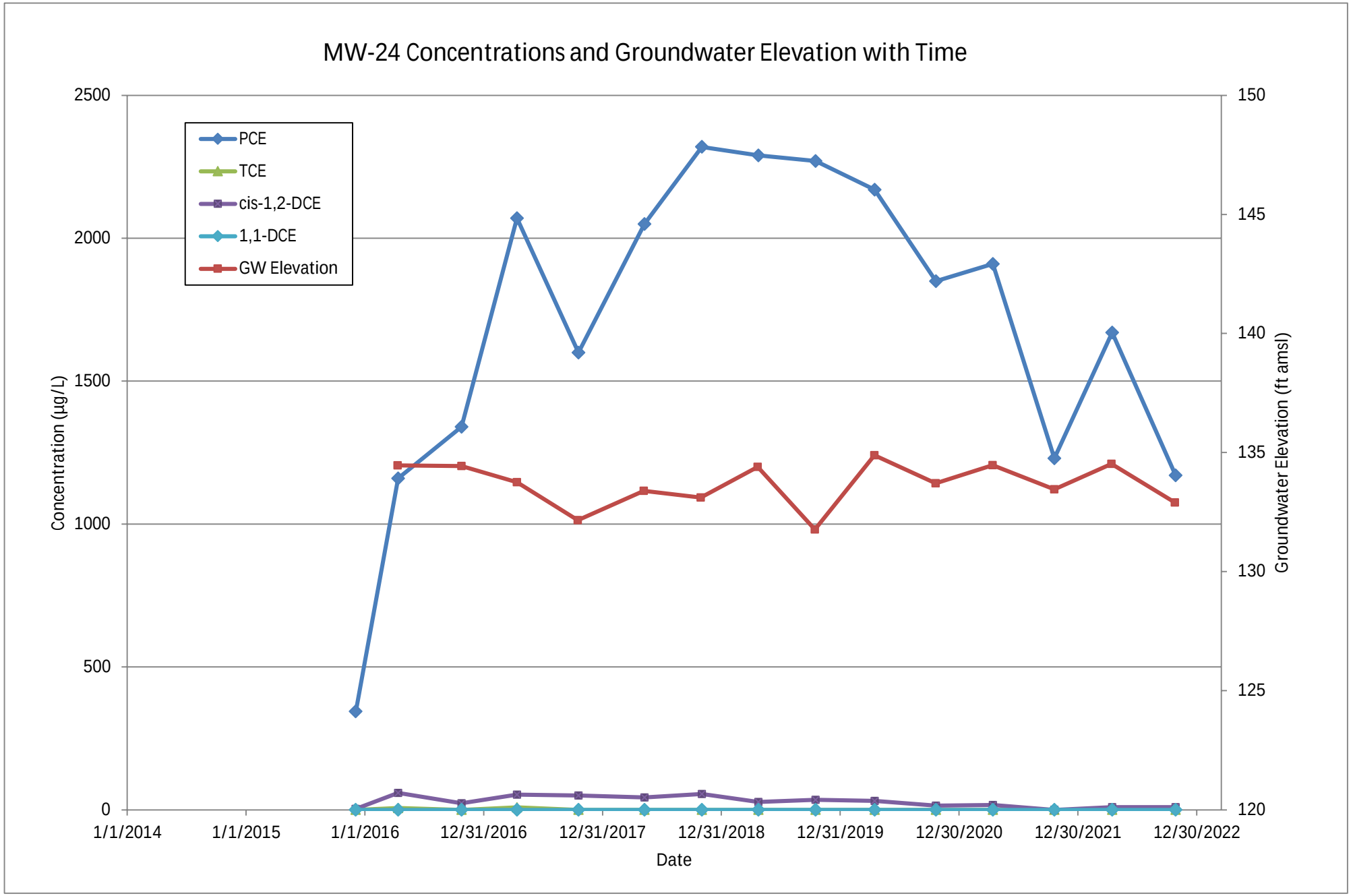

MW-19 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
55000
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22

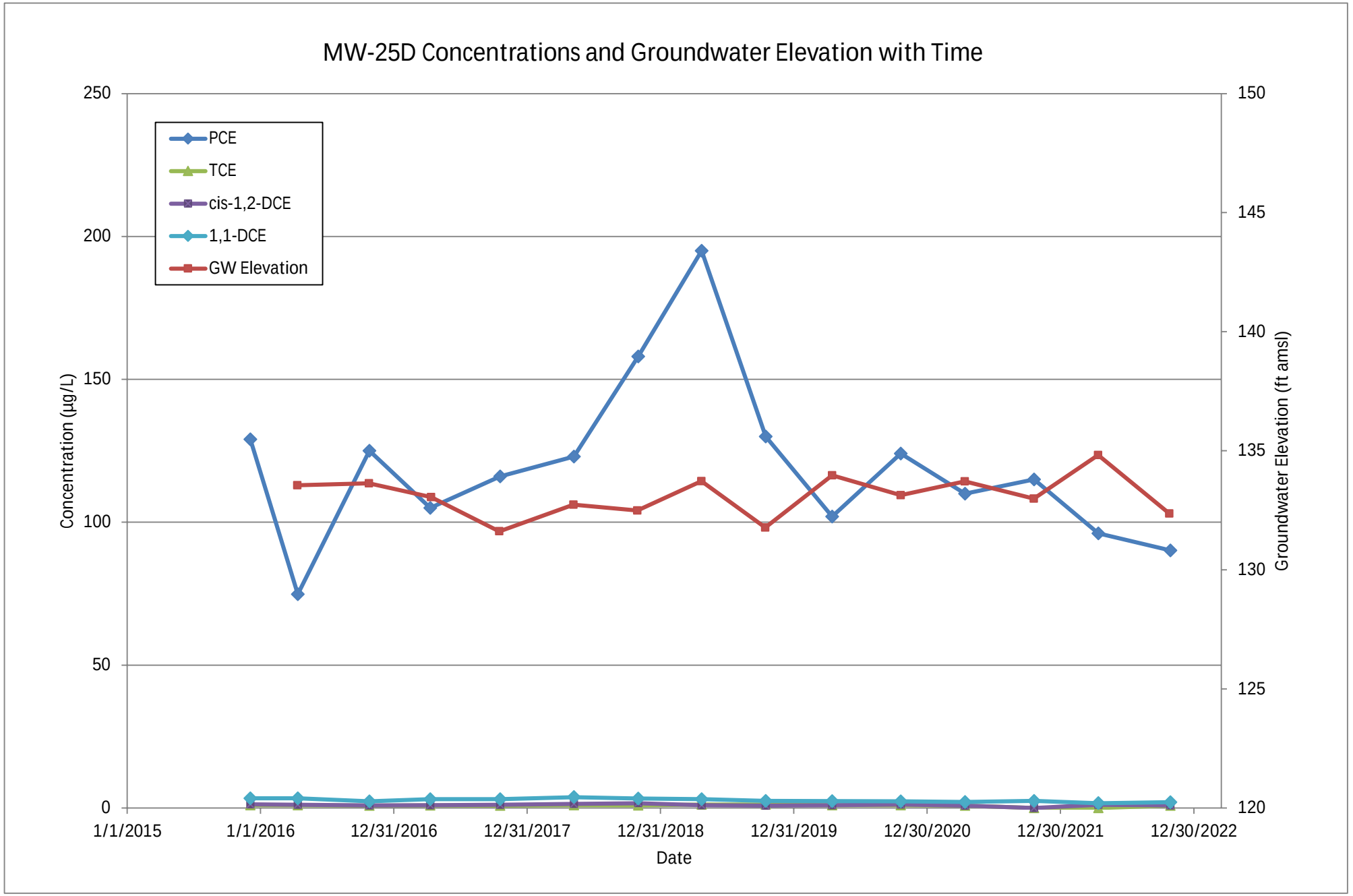

MW-20 Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
700
600
500
400
300
200
100
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22

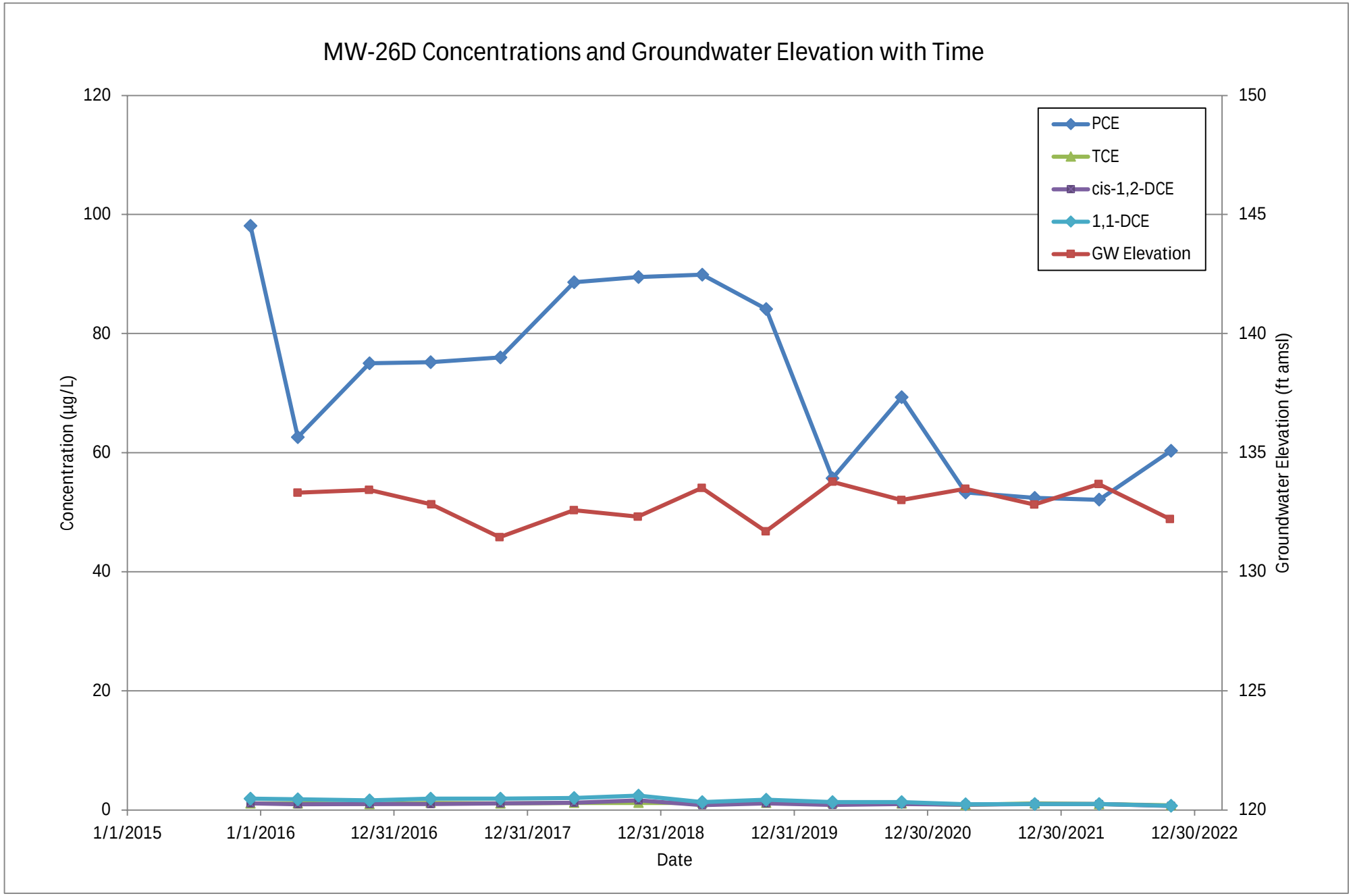

MW-21 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
30000
25000
20000
15000
10000
5000
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22

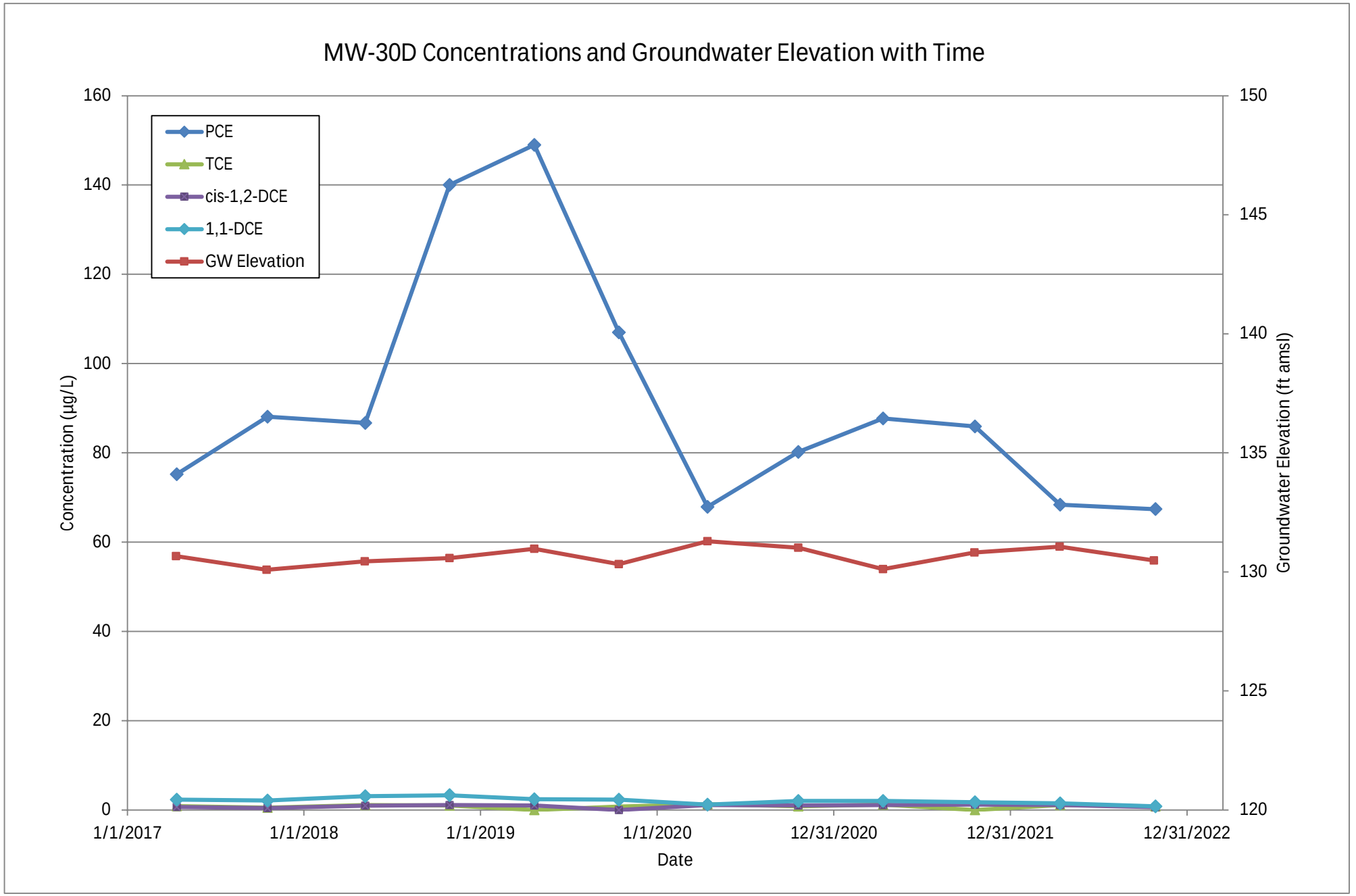

MW-21D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
400
350
300
250
200
150
100
50
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22

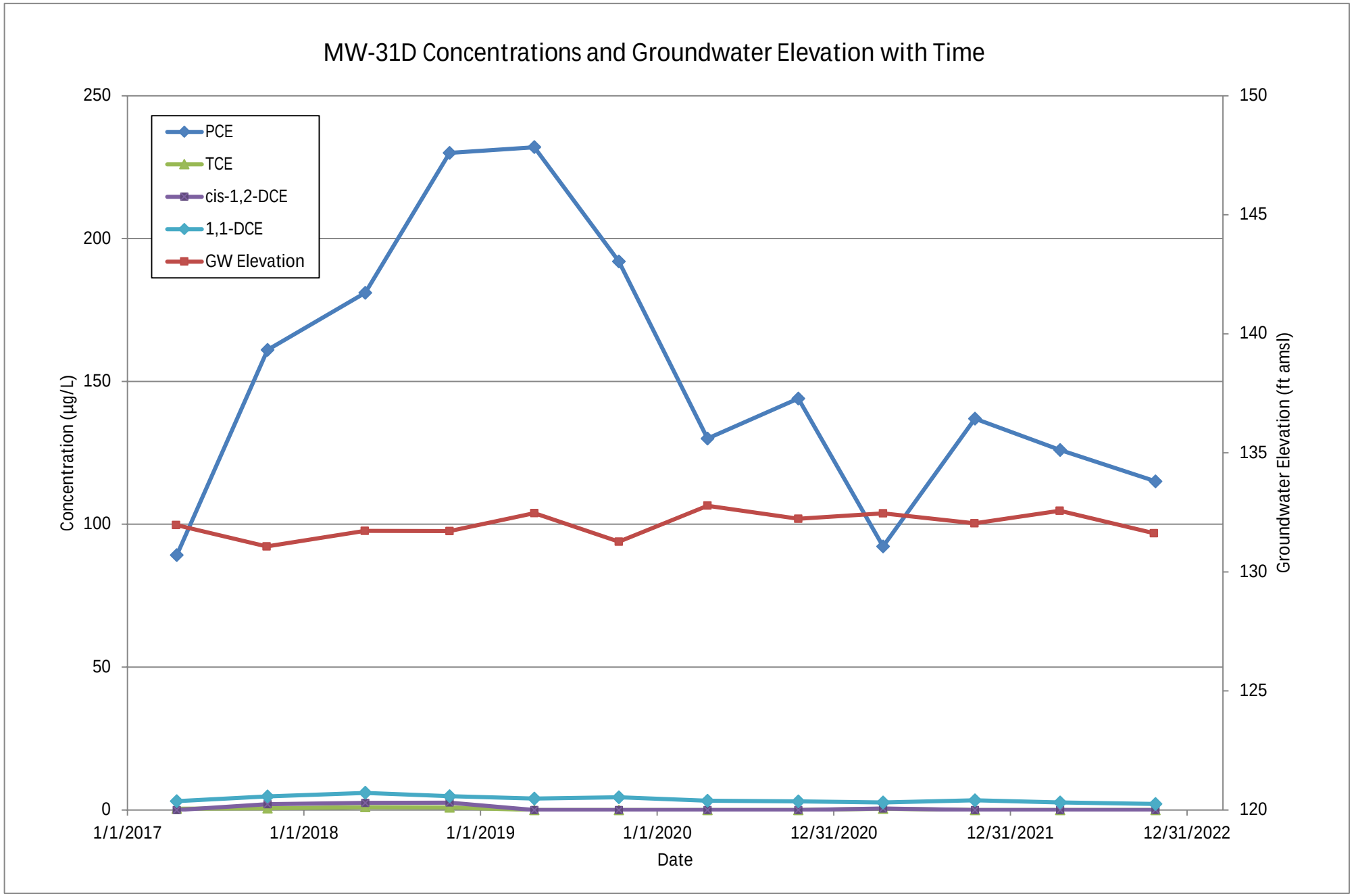

MW-22D Concentrations and Groundwater Elevation with Time
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
180
160
140
120
100
80
60
40
20
0
150
145
140
135
130
125
120
1/1/14
1/1/15
1/1/16
12/31/16
12/31/17
12/31/18
12/31/19
12/30/20
12/30/21
12/30/22
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation

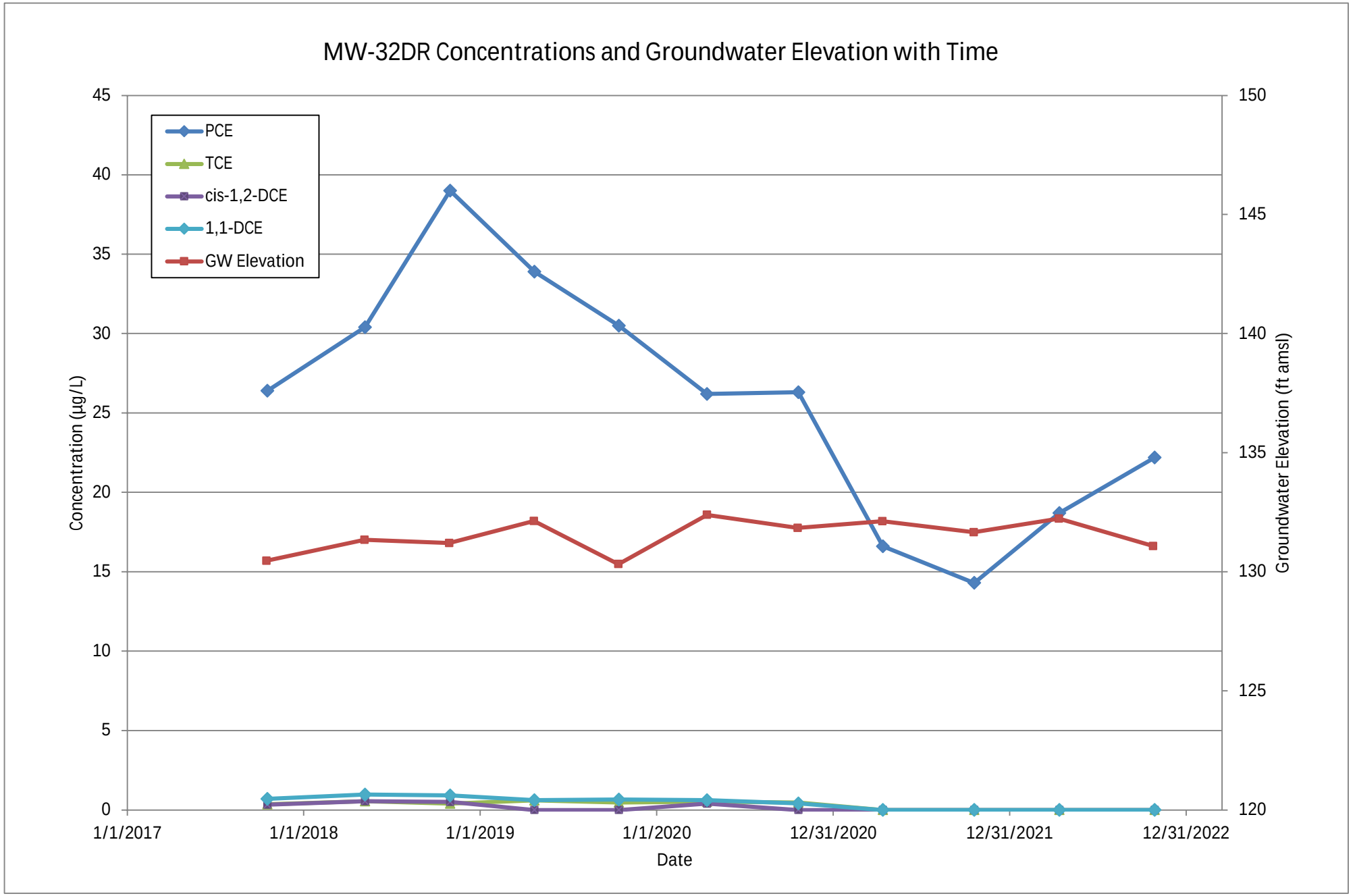

MW-24 Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
2500
2000
1500
1000
500
0
150
145
140
135
130
125
120
1/1/2014
1/1/2015
1/1/2016
12/31/2016
12/31/2017
12/31/2018
12/31/2019
12/30/2020
12/30/2021
12/30/2022


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


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


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


MW-31D Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
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
Date


MW-32DR Concentrations and Groundwater Elevation with Time
PCE
TCE
cis-1,2-DCE
1,1-DCE
GW Elevation
Concentration (µg/L)
Groundwater Elevation (ft amsl)
Date
45
40
35
30
25
20
15
10
5
0
150
145
140
135
130
125
120
1/1/2017
1/1/2018
1/1/2019
1/1/2020
12/31/2020
12/31/2021
12/31/2022

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.

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						Influent				Effluent			Moisture Separation				System Runtime					
Site Visit Date	Days Between Site Visits	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	1733.4	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	2426.4	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	3113.0	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	3618.0	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	3915.7	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	3939.6	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

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	--

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	Hexane	2-Hexanone	Isopropyl Alcohol	Methylene Chloride	Methyl ethyl ketone	Methyl isobutyl ketone	Propylene	Styrene	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	ND	20	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	1.361	1	1
	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	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	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	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	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	39.8	ND	ND	ND	ND	ND	1580	ND	ND	ND	ND	ND	ND	ND	ND	ND	177	ND	ND	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	49.9	7.6	18	ND	ND	ND	7.6	ND	ND	ND	ND	ND	1800	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	1.8	ND	17	ND	8.6	10	ND	ND	4.2	ND	ND	ND	ND	5.5	1230	ND	26	7.0	2.8	15	13	4.3	18	0.088	1.184	17.530

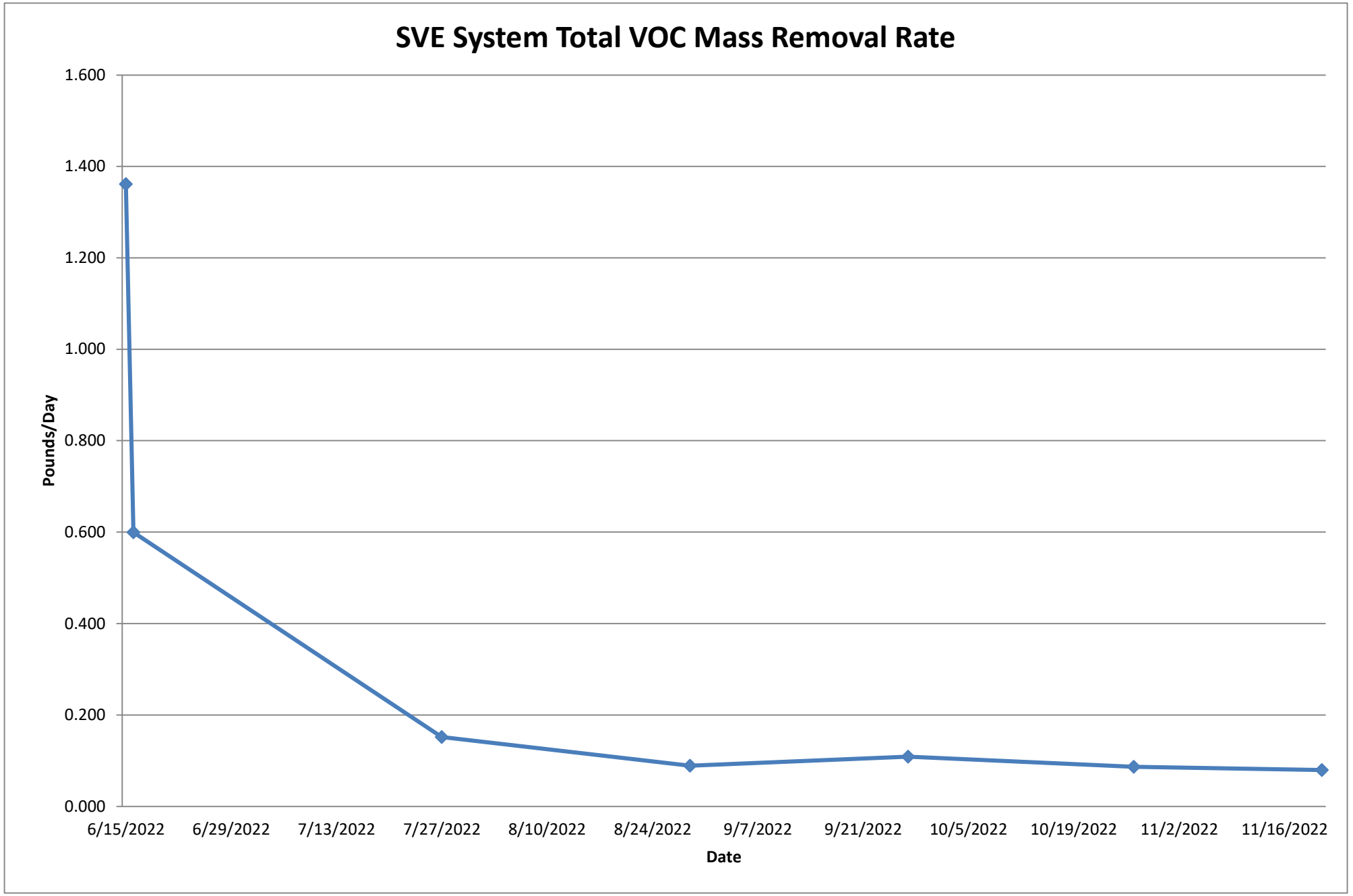
Notes:
ND = Non-detect
Analytical Results = ug/m^3
ug/m^3 = Micrograms per cubic meter
lbs = Pounds
lbs/day = Pounds per day
CFM = cubic feet per minute

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

Notes:
Vacuum = inches of mercury (Hg)
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/Day
6/15/2022
6/29/2022
7/13/2022
7/27/2022
8/10/2022
8/24/2022
9/7/2022
9/21/2022
10/5/2022
10/19/2022
11/2/2022
11/16/2022
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

606 75502

SGS Job Number: JD47017

Sampling Dates: 06/15/22 - 06/16/22



Report to:

AECOM, INC.
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Robert.Davis@aecom.com
ATTN: Ian Ross

Total number of pages in report: 85

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.

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: JD47017

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 606 75502

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD47017-1	06/15/22	16:49	IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-INF(061522)
JD47017-2	06/15/22	17:01	IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-EFF(061522)
JD47017-3	06/16/22	11:34	IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-INF(061622)
JD47017-4	06/16/22	11:40	IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-EFF(061622)

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:** JD47017

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC **Report Date** 7/5/2022 12:58:25 PM

On 06/18/2022, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD47017 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V3W3017

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD47214-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2,4-Trichlorobenzene, Hexachlorobutadiene, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, Propylene are outside control limits.
- RPD(s) for Duplicate for Vinyl Acetate are outside control limits for sample JD47214-1DUP. RPD acceptable due to low DUP and sample concentrations.
- V3W3017-BS for 1,2,4-Trichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- JD47017-1 for m-Dichlorobenzene: Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for m-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 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.
- JD47017-1 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for m-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- V3W3017-BS for Hexachlorobutadiene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for m-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for o-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for p-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for Propylene: Outside in house control limits.
- JD47017-2 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.
- JD47017-2 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 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.
- JD47017-3 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-1 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-3 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for m-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V3W3017

- JD47017-1 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-4 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-1 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.
- JD47017-1 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

Matrix: AIR **Batch ID:** V3W3018

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD47215-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Tetrachloroethylene are outside control limits for sample JD47215-2DUP. RPD acceptable due to low DUP and sample concentrations.

Matrix: AIR **Batch ID:** V3W3020

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47369-1DUP were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD47017
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 06/15/22 thru 06/16/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD47017-1	**SVE-INF(061522)**					
Acetone (2-Propanone)		25.4	0.80	0.58	ppbv	TO-15
Benzene		0.86	0.80	0.25	ppbv	TO-15
Chloromethane		0.61 J	0.80	0.36	ppbv	TO-15
Cyclohexane		1.5	0.80	0.44	ppbv	TO-15
1,1-Dichloroethylene		0.41 J	0.80	0.24	ppbv	TO-15
cis-1,2-Dichloroethylene		0.38 J	0.80	0.31	ppbv	TO-15
m-Dichlorobenzene [a]		3.8	0.80	0.16	ppbv	TO-15
Ethanol		39.5	2.0	1.6	ppbv	TO-15
Ethylbenzene		3.0	0.80	0.24	ppbv	TO-15
Ethyl Acetate		37.0	0.80	0.42	ppbv	TO-15
4-Ethyltoluene		0.46 J	0.80	0.38	ppbv	TO-15
Heptane		0.83	0.80	0.37	ppbv	TO-15
Hexane		0.79 J	0.80	0.45	ppbv	TO-15
Isopropyl Alcohol		20.2	0.80	0.56	ppbv	TO-15
Methylene chloride		5.0	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone		12.5	0.80	0.44	ppbv	TO-15
Methyl Isobutyl Ketone		6.4	0.80	0.29	ppbv	TO-15
Styrene		1.2	0.80	0.47	ppbv	TO-15
1,1,1-Trichloroethane		4.7	0.80	0.15	ppbv	TO-15
1,2,4-Trimethylbenzene		1.3	0.80	0.35	ppbv	TO-15
1,3,5-Trimethylbenzene		0.42 J	0.80	0.32	ppbv	TO-15
Tertiary Butyl Alcohol		7.4	0.80	0.37	ppbv	TO-15
Tetrachloroethylene		291	0.32	0.11	ppbv	TO-15
Tetrahydrofuran		46.0	0.80	0.36	ppbv	TO-15
Toluene		18.0	0.80	0.23	ppbv	TO-15
Trichloroethylene		0.66	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		0.53 J	0.80	0.14	ppbv	TO-15
Vinyl Acetate		3.2	0.80	0.45	ppbv	TO-15
m,p-Xylene		12.5	0.80	0.56	ppbv	TO-15
o-Xylene		3.6	0.80	0.31	ppbv	TO-15
Xylenes (total)		16.1	0.80	0.31	ppbv	TO-15
Acetone (2-Propanone)		60.3	1.9	1.4	ug/m3	TO-15
Benzene		2.7	2.6	0.80	ug/m3	TO-15
Chloromethane		1.3 J	1.7	0.74	ug/m3	TO-15
Cyclohexane		5.2	2.8	1.5	ug/m3	TO-15
1,1-Dichloroethylene		1.6 J	3.2	0.95	ug/m3	TO-15
cis-1,2-Dichloroethylene		1.5 J	3.2	1.2	ug/m3	TO-15
m-Dichlorobenzene [a]		23	4.8	0.96	ug/m3	TO-15
Ethanol		74.4	3.8	3.0	ug/m3	TO-15
Ethylbenzene		13	3.5	1.0	ug/m3	TO-15
Ethyl Acetate		133	2.9	1.5	ug/m3	TO-15
4-Ethyltoluene		2.3 J	3.9	1.9	ug/m3	TO-15
Heptane		3.4	3.3	1.5	ug/m3	TO-15

Summary of Hits

Job Number: JD47017
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 06/15/22 thru 06/16/22

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Hexane	2.8 J	2.8	1.6	ug/m3	TO-15
Isopropyl Alcohol	49.7	2.0	1.4	ug/m3	TO-15
Methylene chloride	17	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	36.9	2.4	1.3	ug/m3	TO-15
Methyl Isobutyl Ketone	26	3.3	1.2	ug/m3	TO-15
Styrene	5.1	3.4	2.0	ug/m3	TO-15
1,1,1-Trichloroethane	26	4.4	0.82	ug/m3	TO-15
1,2,4-Trimethylbenzene	6.4	3.9	1.7	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.1 J	3.9	1.6	ug/m3	TO-15
Tertiary Butyl Alcohol	22	2.4	1.1	ug/m3	TO-15
Tetrachloroethylene	1970	2.2	0.75	ug/m3	TO-15
Tetrahydrofuran	136	2.4	1.1	ug/m3	TO-15
Toluene	67.8	3.0	0.87	ug/m3	TO-15
Trichloroethylene	3.5	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane	3.0 J	4.5	0.79	ug/m3	TO-15
Vinyl Acetate	11	2.8	1.6	ug/m3	TO-15
m,p-Xylene	54.3	3.5	2.4	ug/m3	TO-15
o-Xylene	16	3.5	1.3	ug/m3	TO-15
Xylenes (total)	69.9	3.5	1.3	ug/m3	TO-15
JD47017-2 SVE-EFF(061522)					
Acetone (2-Propanone)	49.5	8.0	5.8	ppbv	TO-15
Ethyl Acetate	5.6 J	8.0	4.2	ppbv	TO-15
Methylene chloride	5.1 J	8.0	2.2	ppbv	TO-15
Methyl ethyl ketone	16.1	8.0	4.4	ppbv	TO-15
1,1,1-Trichloroethane	27.8	8.0	1.5	ppbv	TO-15
Tetrachloroethylene	5060	7.4	2.6	ppbv	TO-15
Tetrahydrofuran	389	8.0	3.6	ppbv	TO-15
Toluene	5.9 J	8.0	2.3	ppbv	TO-15
Trichloroethylene	5.1	1.6	0.76	ppbv	TO-15
Acetone (2-Propanone)	118	19	14	ug/m3	TO-15
Ethyl Acetate	20 J	29	15	ug/m3	TO-15
Methylene chloride	18 J	28	7.6	ug/m3	TO-15
Methyl ethyl ketone	47.5	24	13	ug/m3	TO-15
1,1,1-Trichloroethane	152	44	8.2	ug/m3	TO-15
Tetrachloroethylene	34300	50	18	ug/m3	TO-15
Tetrahydrofuran	1150	24	11	ug/m3	TO-15
Toluene	22 J	30	8.7	ug/m3	TO-15
Trichloroethylene	27	8.6	4.1	ug/m3	TO-15
JD47017-3 SVE-INF(061622)					
Acetone (2-Propanone)	50.1	4.0	2.9	ppbv	TO-15
Benzene	5.4	4.0	1.2	ppbv	TO-15

Summary of Hits

Job Number: JD47017
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 06/15/22 thru 06/16/22

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Cyclohexane	9.3	4.0	2.2	ppbv	TO-15
1,1-Dichloroethylene	2.1 J	4.0	1.2	ppbv	TO-15
cis-1,2-Dichloroethylene	3.4 J	4.0	1.5	ppbv	TO-15
Ethanol	74.1	10	7.9	ppbv	TO-15
Ethylbenzene	11.2	4.0	1.2	ppbv	TO-15
Ethyl Acetate	178	4.0	2.1	ppbv	TO-15
Heptane	3.4 J	4.0	1.8	ppbv	TO-15
Hexane	2.5 J	4.0	2.2	ppbv	TO-15
Isopropyl Alcohol	31.1	4.0	2.8	ppbv	TO-15
Methylene chloride	12.4	4.0	1.1	ppbv	TO-15
Methyl ethyl ketone	33.8	4.0	2.2	ppbv	TO-15
Methyl Isobutyl Ketone	10.3	4.0	1.5	ppbv	TO-15
1,1,1-Trichloroethane	8.3	4.0	0.74	ppbv	TO-15
1,2,4-Trimethylbenzene	2.9 J	4.0	1.7	ppbv	TO-15
Tertiary Butyl Alcohol	8.2	4.0	1.9	ppbv	TO-15
Tetrachloroethylene	1560	1.6	0.56	ppbv	TO-15
Tetrahydrofuran	41.8	4.0	1.8	ppbv	TO-15
Toluene	75.6	4.0	1.1	ppbv	TO-15
Trichloroethylene	3.9	0.80	0.38	ppbv	TO-15
Vinyl Acetate	5.7	4.0	2.2	ppbv	TO-15
m,p-Xylene	42.4	4.0	2.8	ppbv	TO-15
o-Xylene	11.7	4.0	1.5	ppbv	TO-15
Xylenes (total)	54.0	4.0	1.5	ppbv	TO-15
Acetone (2-Propanone)	119	9.5	6.9	ug/m3	TO-15
Benzene	17	13	3.8	ug/m3	TO-15
Cyclohexane	32	14	7.6	ug/m3	TO-15
1,1-Dichloroethylene	8.3 J	16	4.8	ug/m3	TO-15
cis-1,2-Dichloroethylene	13 J	16	5.9	ug/m3	TO-15
Ethanol	140	19	15	ug/m3	TO-15
Ethylbenzene	48.6	17	5.2	ug/m3	TO-15
Ethyl Acetate	641	14	7.6	ug/m3	TO-15
Heptane	14 J	16	7.4	ug/m3	TO-15
Hexane	8.8 J	14	7.8	ug/m3	TO-15
Isopropyl Alcohol	76.4	9.8	6.9	ug/m3	TO-15
Methylene chloride	43.1	14	3.8	ug/m3	TO-15
Methyl ethyl ketone	99.7	12	6.5	ug/m3	TO-15
Methyl Isobutyl Ketone	42.2	16	6.1	ug/m3	TO-15
1,1,1-Trichloroethane	45	22	4.0	ug/m3	TO-15
1,2,4-Trimethylbenzene	14 J	20	8.4	ug/m3	TO-15
Tertiary Butyl Alcohol	25	12	5.8	ug/m3	TO-15
Tetrachloroethylene	10600	11	3.8	ug/m3	TO-15
Tetrahydrofuran	123	12	5.3	ug/m3	TO-15
Toluene	285	15	4.1	ug/m3	TO-15
Trichloroethylene	21	4.3	2.0	ug/m3	TO-15
Vinyl Acetate	20	14	7.7	ug/m3	TO-15

Summary of Hits

Job Number: JD47017
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 06/15/22 thru 06/16/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		184	17	12	ug/m3	TO-15
o-Xylene		50.8	17	6.5	ug/m3	TO-15
Xylenes (total)		235	17	6.5	ug/m3	TO-15
JD47017-4	**SVE-EFF(061622)**					
Acetone (2-Propanone)		53.8	4.0	2.9	ppbv	TO-15
Benzene		98.5	4.0	1.2	ppbv	TO-15
Cyclohexane		2.8 J	4.0	2.2	ppbv	TO-15
1,1-Dichloroethylene		2.1 J	4.0	1.2	ppbv	TO-15
trans-1,2-Dichloroethylene		2.1 J	4.0	1.4	ppbv	TO-15
cis-1,2-Dichloroethylene		3.0 J	4.0	1.5	ppbv	TO-15
Ethanol		30.8	10	7.9	ppbv	TO-15
Ethylbenzene		24.2	4.0	1.2	ppbv	TO-15
Ethyl Acetate		7.9	4.0	2.1	ppbv	TO-15
4-Ethyltoluene		6.0	4.0	1.9	ppbv	TO-15
Heptane		5.1	4.0	1.8	ppbv	TO-15
Hexane		2.2 J	4.0	2.2	ppbv	TO-15
Isopropyl Alcohol		4.8	4.0	2.8	ppbv	TO-15
Methylene chloride		5.3	4.0	1.1	ppbv	TO-15
Methyl ethyl ketone		25.7	4.0	2.2	ppbv	TO-15
Propylene [b]		5.8 J	10	2.8	ppbv	TO-15
1,1,1-Trichloroethane		7.9	4.0	0.74	ppbv	TO-15
1,2,4-Trimethylbenzene		14.4	4.0	1.7	ppbv	TO-15
1,3,5-Trimethylbenzene		5.1	4.0	1.6	ppbv	TO-15
2,2,4-Trimethylpentane		3.0 J	4.0	1.9	ppbv	TO-15
Tetrachloroethylene		1910	1.6	0.56	ppbv	TO-15
Tetrahydrofuran		33.4	4.0	1.8	ppbv	TO-15
Toluene		101	4.0	1.1	ppbv	TO-15
Trichloroethylene		5.9	0.80	0.38	ppbv	TO-15
m,p-Xylene		98.1	4.0	2.8	ppbv	TO-15
o-Xylene		33.2	4.0	1.5	ppbv	TO-15
Xylenes (total)		131	4.0	1.5	ppbv	TO-15
Acetone (2-Propanone)		128	9.5	6.9	ug/m3	TO-15
Benzene		315	13	3.8	ug/m3	TO-15
Cyclohexane		9.6 J	14	7.6	ug/m3	TO-15
1,1-Dichloroethylene		8.3 J	16	4.8	ug/m3	TO-15
trans-1,2-Dichloroethylene		8.3 J	16	5.6	ug/m3	TO-15
cis-1,2-Dichloroethylene		12 J	16	5.9	ug/m3	TO-15
Ethanol		58.0	19	15	ug/m3	TO-15
Ethylbenzene		105	17	5.2	ug/m3	TO-15
Ethyl Acetate		28	14	7.6	ug/m3	TO-15
4-Ethyltoluene		29	20	9.3	ug/m3	TO-15
Heptane		21	16	7.4	ug/m3	TO-15
Hexane		7.8 J	14	7.8	ug/m3	TO-15

Summary of Hits

Job Number: JD47017
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 06/15/22 thru 06/16/22

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Isopropyl Alcohol	12	9.8	6.9	ug/m3	TO-15
Methylene chloride	18	14	3.8	ug/m3	TO-15
Methyl ethyl ketone	75.8	12	6.5	ug/m3	TO-15
Propylene [b]	10 J	17	4.8	ug/m3	TO-15
1,1,1-Trichloroethane	43	22	4.0	ug/m3	TO-15
1,2,4-Trimethylbenzene	70.8	20	8.4	ug/m3	TO-15
1,3,5-Trimethylbenzene	25	20	7.9	ug/m3	TO-15
2,2,4-Trimethylpentane	14 J	19	8.9	ug/m3	TO-15
Tetrachloroethylene	13000	11	3.8	ug/m3	TO-15
Tetrahydrofuran	98.5	12	5.3	ug/m3	TO-15
Toluene	381	15	4.1	ug/m3	TO-15
Trichloroethylene	32	4.3	2.0	ug/m3	TO-15
m,p-Xylene	426	17	12	ug/m3	TO-15
o-Xylene	144	17	6.5	ug/m3	TO-15
Xylenes (total)	569	17	6.5	ug/m3	TO-15

(a) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias high.
(b) This compound in blank spike is outside in house QC limits bias low.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-INF(061522)
Lab Sample ID: JD47017-1 **Date Sampled:** 06/15/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1093 **Date Received:** 06/18/22
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	3W76679.D	1	06/28/22 07:48	BK	n/a	n/a	V3W3017
Run #2	3W76709.D	1	06/29/22 07:10	TCH	n/a	n/a	V3W3018

	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)	25.4	0.80	0.58	ppbv		60.3	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	0.86	0.80	0.25	ppbv		2.7	2.6	0.80	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	0.61	0.80	0.36	ppbv	J	1.3	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	1.5	0.80	0.44	ppbv		5.2	2.8	1.5	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	0.41	0.80	0.24	ppbv	J	1.6	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	3.0	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	0.13	ppbv		ND	4.0	0.64	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	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.38	0.80	0.31	ppbv	J	1.5	3.2	1.2	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 [a]	3.8	0.80	0.16	ppbv		23	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene [b]	ND	0.80	0.62	ppbv		ND	4.8	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene [b]	ND	0.80	0.76	ppbv		ND	4.8	4.6	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-INF(061522)
Lab Sample ID: JD47017-1 **Date Sampled:** 06/15/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1093 **Date Received:** 06/18/22
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	39.5	2.0	1.6	ppbv		74.4	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	3.0	0.80	0.24	ppbv		13	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	37.0	0.80	0.42	ppbv		133	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.46	0.80	0.38	ppbv	J	2.3	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	0.83	0.80	0.37	ppbv		3.4	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene [b]	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	0.79	0.80	0.45	ppbv	J	2.8	2.8	1.6	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	20.2	0.80	0.56	ppbv		49.7	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	5.0	0.80	0.22	ppbv		17	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	12.5	0.80	0.44	ppbv		36.9	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	6.4	0.80	0.29	ppbv		26	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 [c]	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	1.2	0.80	0.47	ppbv		5.1	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	4.7	0.80	0.15	ppbv		26	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	1.3	0.80	0.35	ppbv		6.4	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.42	0.80	0.32	ppbv	J	2.1	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	7.4	0.80	0.37	ppbv		22	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	291 [d]	0.32	0.11	ppbv		1970 [d]	2.2	0.75	ug/m3
109-99-9	72.11	Tetrahydrofuran	46.0	0.80	0.36	ppbv		136	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	18.0	0.80	0.23	ppbv		67.8	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.66	0.16	0.076	ppbv		3.5	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.53	0.80	0.14	ppbv	J	3.0	4.5	0.79	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	3.2	0.80	0.45	ppbv		11	2.8	1.6	ug/m3
	106.2	m,p-Xylene	12.5	0.80	0.56	ppbv		54.3	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	3.6	0.80	0.31	ppbv		16	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	16.1	0.80	0.31	ppbv		69.9	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	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-INF(061522)		
Lab Sample ID:	JD47017-1	**Date Sampled:**	06/15/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1093	**Date Received:**	06/18/22
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. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) This compound in blank spike is outside in house QC limits bias 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: SVE-EFF(061522)
Lab Sample ID: JD47017-2 **Date Sampled:** 06/15/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1119 **Date Received:** 06/18/22
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	3W76676.D	1	06/28/22 05:22	BK	n/a	n/a	V3W3017
Run #2	3W76767.D	2.3	07/01/22 04:59	TCH	n/a	n/a	V3W3020

	Initial Volume
Run #1	10.0 ml
Run #2	5.0 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)	49.5	8.0	5.8	ppbv		118	19	14	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	8.0	3.4	ppbv		ND	18	7.5	ug/m3
71-43-2	78.11	Benzene	ND	8.0	2.5	ppbv		ND	26	8.0	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	8.0	1.2	ppbv		ND	54	8.0	ug/m3
75-25-2	252.8	Bromoform	ND	8.0	2.8	ppbv		ND	83	29	ug/m3
74-83-9	94.94	Bromomethane	ND	8.0	2.8	ppbv		ND	31	11	ug/m3
593-60-2	106.9	Bromoethene	ND	8.0	2.4	ppbv		ND	35	10	ug/m3
100-44-7	126	Benzyl Chloride	ND	8.0	5.0	ppbv		ND	41	26	ug/m3
75-15-0	76.14	Carbon disulfide	ND	8.0	1.8	ppbv		ND	25	5.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	8.0	3.0	ppbv		ND	37	14	ug/m3
75-00-3	64.52	Chloroethane	ND	8.0	2.7	ppbv		ND	21	7.1	ug/m3
67-66-3	119.4	Chloroform	ND	8.0	1.5	ppbv		ND	39	7.3	ug/m3
74-87-3	50.49	Chloromethane	ND	8.0	3.6	ppbv		ND	17	7.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	8.0	3.3	ppbv		ND	25	10	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	8.0	2.9	ppbv		ND	41	15	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	8.0	1.6	ppbv		ND	50	10	ug/m3
110-82-7	84.16	Cyclohexane	ND	8.0	4.4	ppbv		ND	28	15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	8.0	2.3	ppbv		ND	32	9.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	8.0	2.4	ppbv		ND	32	9.5	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	8.0	3.9	ppbv		ND	61	30	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	8.0	2.8	ppbv		ND	32	11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	8.0	2.5	ppbv		ND	37	12	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	8.0	4.7	ppbv		ND	29	17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	8.0	1.3	ppbv		ND	40	6.4	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	8.0	2.1	ppbv		ND	68	18	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	8.0	2.8	ppbv		ND	32	11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	8.0	3.1	ppbv		ND	32	12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	8.0	2.5	ppbv		ND	36	11	ug/m3
541-73-1	147	m-Dichlorobenzene [a]	ND	8.0	1.6	ppbv		ND	48	9.6	ug/m3
95-50-1	147	o-Dichlorobenzene [a]	ND	8.0	6.2	ppbv		ND	48	37	ug/m3
106-46-7	147	p-Dichlorobenzene [a]	ND	8.0	7.6	ppbv		ND	48	46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	8.0	4.0	ppbv		ND	36	18	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(061522)
Lab Sample ID: JD47017-2 **Date Sampled:** 06/15/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1119 **Date Received:** 06/18/22
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	ND	20	16	ppbv		ND	38	30	ug/m3
100-41-4	106.2	Ethylbenzene	ND	8.0	2.4	ppbv		ND	35	10	ug/m3
141-78-6	88	Ethyl Acetate	5.6	8.0	4.2	ppbv	J	20	29	15	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	8.0	3.8	ppbv		ND	39	19	ug/m3
76-13-1	187.4	Freon 113	ND	8.0	1.2	ppbv		ND	61	9.2	ug/m3
76-14-2	170.9	Freon 114	ND	8.0	2.0	ppbv		ND	56	14	ug/m3
142-82-5	100.2	Heptane	ND	8.0	3.7	ppbv		ND	33	15	ug/m3
87-68-3	260.8	Hexachlorobutadiene [a]	ND	8.0	2.5	ppbv		ND	85	27	ug/m3
110-54-3	86.18	Hexane	ND	8.0	4.5	ppbv		ND	28	16	ug/m3
591-78-6	100	2-Hexanone	ND	8.0	5.8	ppbv		ND	33	24	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	8.0	5.6	ppbv		ND	20	14	ug/m3
75-09-2	84.94	Methylene chloride	5.1	8.0	2.2	ppbv	J	18	28	7.6	ug/m3
78-93-3	72.11	Methyl ethyl ketone	16.1	8.0	4.4	ppbv		47.5	24	13	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	8.0	2.9	ppbv		ND	33	12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	8.0	3.2	ppbv		ND	29	12	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	8.0	2.8	ppbv		ND	33	11	ug/m3
115-07-1	42	Propylene [b]	ND	20	5.7	ppbv		ND	34	9.8	ug/m3
100-42-5	104.1	Styrene	ND	8.0	4.7	ppbv		ND	34	20	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	27.8	8.0	1.5	ppbv		152	44	8.2	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	8.0	1.9	ppbv		ND	55	13	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	8.0	1.5	ppbv		ND	44	8.2	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [a]	ND	8.0	4.8	ppbv		ND	59	36	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	8.0	3.5	ppbv		ND	39	17	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	8.0	3.2	ppbv		ND	39	16	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	8.0	3.8	ppbv		ND	37	18	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	8.0	3.7	ppbv		ND	24	11	ug/m3
127-18-4	165.8	Tetrachloroethylene	5060 [c]	7.4	2.6	ppbv		34300 [c]	50	18	ug/m3
109-99-9	72.11	Tetrahydrofuran	389	8.0	3.6	ppbv		1150	24	11	ug/m3
108-88-3	92.14	Toluene	5.9	8.0	2.3	ppbv	J	22	30	8.7	ug/m3
79-01-6	131.4	Trichloroethylene	5.1	1.6	0.76	ppbv		27	8.6	4.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	8.0	1.4	ppbv		ND	45	7.9	ug/m3
75-01-4	62.5	Vinyl chloride	ND	8.0	2.8	ppbv		ND	20	7.2	ug/m3
108-05-4	86	Vinyl Acetate	ND	8.0	4.5	ppbv		ND	28	16	ug/m3
	106.2	m,p-Xylene	ND	8.0	5.6	ppbv		ND	35	24	ug/m3
95-47-6	106.2	o-Xylene	ND	8.0	3.1	ppbv		ND	35	13	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	8.0	3.1	ppbv		ND	35	13	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%	107%	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(061522)		
Lab Sample ID:	JD47017-2	**Date Sampled:**	06/15/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1119	**Date Received:**	06/18/22
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.
(b) This compound in blank spike is outside in house QC limits bias low.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID: SVE-INF(061622)
Lab Sample ID: JD47017-3 **Date Sampled:** 06/16/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A798 **Date Received:** 06/18/22
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	3W76677.D	1	06/28/22 06:11	BK	n/a	n/a	V3W3017
Run #2	3W76707.D	1	06/29/22 05:53	TCH	n/a	n/a	V3W3018

	Initial Volume
Run #1	20.0 ml
Run #2	10.0 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)	50.1	4.0	2.9	ppbv		119	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	1.7	ppbv		ND	8.8	3.8	ug/m3
71-43-2	78.11	Benzene	5.4	4.0	1.2	ppbv		17	13	3.8	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.60	ppbv		ND	27	4.0	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	1.4	ppbv		ND	41	14	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	1.4	ppbv		ND	16	5.4	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	1.2	ppbv		ND	17	5.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	2.5	ppbv		ND	21	13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	4.0	0.90	ppbv		ND	12	2.8	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	1.5	ppbv		ND	18	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	4.0	1.4	ppbv		ND	11	3.7	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.74	ppbv		ND	20	3.6	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	1.8	ppbv		ND	8.3	3.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	1.7	ppbv		ND	13	5.3	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	1.4	ppbv		ND	21	7.2	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.80	ppbv		ND	25	5.0	ug/m3
110-82-7	84.16	Cyclohexane	9.3	4.0	2.2	ppbv		32	14	7.6	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.0	1.1	ppbv		ND	16	4.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	2.1	4.0	1.2	ppbv	J	8.3	16	4.8	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	4.0	1.9	ppbv		ND	31	15	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	1.2	ppbv		ND	18	5.5	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	2.3	ppbv		ND	14	8.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.64	ppbv		ND	20	3.2	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	1.0	ppbv		ND	34	8.5	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	4.0	1.4	ppbv		ND	16	5.6	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	3.4	4.0	1.5	ppbv	J	13	16	5.9	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	1.2	ppbv		ND	18	5.4	ug/m3
541-73-1	147	m-Dichlorobenzene [a]	ND	4.0	0.80	ppbv		ND	24	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene [a]	ND	4.0	3.1	ppbv		ND	24	19	ug/m3
106-46-7	147	p-Dichlorobenzene [a]	ND	4.0	3.8	ppbv		ND	24	23	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	2.0	ppbv		ND	18	9.1	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-INF(061622)
Lab Sample ID: JD47017-3 **Date Sampled:** 06/16/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A798 **Date Received:** 06/18/22
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	74.1	10	7.9	ppbv		140	19	15	ug/m3
100-41-4	106.2	Ethylbenzene	11.2	4.0	1.2	ppbv		48.6	17	5.2	ug/m3
141-78-6	88	Ethyl Acetate	178	4.0	2.1	ppbv		641	14	7.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	4.0	1.9	ppbv		ND	20	9.3	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.62	ppbv		ND	31	4.8	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	1.0	ppbv		ND	28	7.0	ug/m3
142-82-5	100.2	Heptane	3.4	4.0	1.8	ppbv	J	14	16	7.4	ug/m3
87-68-3	260.8	Hexachlorobutadiene [a]	ND	4.0	1.2	ppbv		ND	43	13	ug/m3
110-54-3	86.18	Hexane	2.5	4.0	2.2	ppbv	J	8.8	14	7.8	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	2.9	ppbv		ND	16	12	ug/m3
67-63-0	60.1	Isopropyl Alcohol	31.1	4.0	2.8	ppbv		76.4	9.8	6.9	ug/m3
75-09-2	84.94	Methylene chloride	12.4	4.0	1.1	ppbv		43.1	14	3.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	33.8	4.0	2.2	ppbv		99.7	12	6.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	10.3	4.0	1.5	ppbv		42.2	16	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	1.6	ppbv		ND	14	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
115-07-1	42	Propylene [b]	ND	10	2.8	ppbv		ND	17	4.8	ug/m3
100-42-5	104.1	Styrene	ND	4.0	2.4	ppbv		ND	17	10	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	8.3	4.0	0.74	ppbv		45	22	4.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	4.0	0.96	ppbv		ND	27	6.6	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.76	ppbv		ND	22	4.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [a]	ND	4.0	2.4	ppbv		ND	30	18	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	2.9	4.0	1.7	ppbv	J	14	20	8.4	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	4.0	1.6	ppbv		ND	20	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.0	1.9	ppbv		ND	19	8.9	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	8.2	4.0	1.9	ppbv		25	12	5.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	1560 [c]	1.6	0.56	ppbv		10600 [c]	11	3.8	ug/m3
109-99-9	72.11	Tetrahydrofuran	41.8	4.0	1.8	ppbv		123	12	5.3	ug/m3
108-88-3	92.14	Toluene	75.6	4.0	1.1	ppbv		285	15	4.1	ug/m3
79-01-6	131.4	Trichloroethylene	3.9	0.80	0.38	ppbv		21	4.3	2.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.72	ppbv		ND	22	4.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	1.4	ppbv		ND	10	3.6	ug/m3
108-05-4	86	Vinyl Acetate	5.7	4.0	2.2	ppbv		20	14	7.7	ug/m3
	106.2	m,p-Xylene	42.4	4.0	2.8	ppbv		184	17	12	ug/m3
95-47-6	106.2	o-Xylene	11.7	4.0	1.5	ppbv		50.8	17	6.5	ug/m3
1330-20-7	106.2	Xylenes (total)	54.0	4.0	1.5	ppbv		235	17	6.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	97%	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-INF(061622)		
Lab Sample ID:	JD47017-3	**Date Sampled:**	06/16/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A798	**Date Received:**	06/18/22
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.
(b) This compound in blank spike is outside in house QC limits bias low.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	SVE-EFF(061622)		
Lab Sample ID:	JD47017-4	**Date Sampled:**	06/16/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A604	**Date Received:**	06/18/22
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	3W76678.D	1	06/28/22 06:59	BK	n/a	n/a	V3W3017
Run #2	3W76708.D	1	06/29/22 06:31	TCH	n/a	n/a	V3W3018

	Initial Volume
Run #1	20.0 ml
Run #2	10.0 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)	53.8	4.0	2.9	ppbv		128	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	1.7	ppbv		ND	8.8	3.8	ug/m3
71-43-2	78.11	Benzene	98.5	4.0	1.2	ppbv		315	13	3.8	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.60	ppbv		ND	27	4.0	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	1.4	ppbv		ND	41	14	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	1.4	ppbv		ND	16	5.4	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	1.2	ppbv		ND	17	5.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	2.5	ppbv		ND	21	13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	4.0	0.90	ppbv		ND	12	2.8	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	1.5	ppbv		ND	18	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	4.0	1.4	ppbv		ND	11	3.7	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.74	ppbv		ND	20	3.6	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	1.8	ppbv		ND	8.3	3.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	1.7	ppbv		ND	13	5.3	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	1.4	ppbv		ND	21	7.2	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.80	ppbv		ND	25	5.0	ug/m3
110-82-7	84.16	Cyclohexane	2.8	4.0	2.2	ppbv	J	9.6	14	7.6	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.0	1.1	ppbv		ND	16	4.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	2.1	4.0	1.2	ppbv	J	8.3	16	4.8	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	4.0	1.9	ppbv		ND	31	15	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	1.2	ppbv		ND	18	5.5	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	2.3	ppbv		ND	14	8.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.64	ppbv		ND	20	3.2	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	1.0	ppbv		ND	34	8.5	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	2.1	4.0	1.4	ppbv	J	8.3	16	5.6	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	3.0	4.0	1.5	ppbv	J	12	16	5.9	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	1.2	ppbv		ND	18	5.4	ug/m3
541-73-1	147	m-Dichlorobenzene [a]	ND	4.0	0.80	ppbv		ND	24	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene [a]	ND	4.0	3.1	ppbv		ND	24	19	ug/m3
106-46-7	147	p-Dichlorobenzene [a]	ND	4.0	3.8	ppbv		ND	24	23	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	2.0	ppbv		ND	18	9.1	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(061622)		
Lab Sample ID:	JD47017-4	**Date Sampled:**	06/16/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A604	**Date Received:**	06/18/22
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	30.8	10	7.9	ppbv		58.0	19	15	ug/m3
100-41-4	106.2	Ethylbenzene	24.2	4.0	1.2	ppbv		105	17	5.2	ug/m3
141-78-6	88	Ethyl Acetate	7.9	4.0	2.1	ppbv		28	14	7.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	6.0	4.0	1.9	ppbv		29	20	9.3	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.62	ppbv		ND	31	4.8	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	1.0	ppbv		ND	28	7.0	ug/m3
142-82-5	100.2	Heptane	5.1	4.0	1.8	ppbv		21	16	7.4	ug/m3
87-68-3	260.8	Hexachlorobutadiene [a]	ND	4.0	1.2	ppbv		ND	43	13	ug/m3
110-54-3	86.18	Hexane	2.2	4.0	2.2	ppbv	J	7.8	14	7.8	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	2.9	ppbv		ND	16	12	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.8	4.0	2.8	ppbv		12	9.8	6.9	ug/m3
75-09-2	84.94	Methylene chloride	5.3	4.0	1.1	ppbv		18	14	3.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	25.7	4.0	2.2	ppbv		75.8	12	6.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	1.5	ppbv		ND	16	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	1.6	ppbv		ND	14	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
115-07-1	42	Propylene [b]	5.8	10	2.8	ppbv	J	10	17	4.8	ug/m3
100-42-5	104.1	Styrene	ND	4.0	2.4	ppbv		ND	17	10	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	7.9	4.0	0.74	ppbv		43	22	4.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	4.0	0.96	ppbv		ND	27	6.6	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.76	ppbv		ND	22	4.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [a]	ND	4.0	2.4	ppbv		ND	30	18	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	14.4	4.0	1.7	ppbv		70.8	20	8.4	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	5.1	4.0	1.6	ppbv		25	20	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	3.0	4.0	1.9	ppbv	J	14	19	8.9	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	1.9	ppbv		ND	12	5.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	1910 [c]	1.6	0.56	ppbv		13000 [c]	11	3.8	ug/m3
109-99-9	72.11	Tetrahydrofuran	33.4	4.0	1.8	ppbv		98.5	12	5.3	ug/m3
108-88-3	92.14	Toluene	101	4.0	1.1	ppbv		381	15	4.1	ug/m3
79-01-6	131.4	Trichloroethylene	5.9	0.80	0.38	ppbv		32	4.3	2.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.72	ppbv		ND	22	4.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	1.4	ppbv		ND	10	3.6	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	2.2	ppbv		ND	14	7.7	ug/m3
	106.2	m,p-Xylene	98.1	4.0	2.8	ppbv		426	17	12	ug/m3
95-47-6	106.2	o-Xylene	33.2	4.0	1.5	ppbv		144	17	6.5	ug/m3
1330-20-7	106.2	Xylenes (total)	131	4.0	1.5	ppbv		569	17	6.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	97%	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(061622)		
Lab Sample ID:	JD47017-4	**Date Sampled:**	06/16/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A604	**Date Received:**	06/18/22
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.
(b) This compound in blank spike is outside in house QC limits bias low.
(c) Result is from Run# 2

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

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 # 5772-6642-2650
Bottle Order Control # 500-86622-214
SGS Quote #
SGS Job # JD47017

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd, Suite 200
City: Raleigh State: NC Zip: 27607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: (919) 461-1100 ian.ros@aecom.com
Sampler(s) Name(s): Ian Ros

Project Information

Project Name: Delavan SVE
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60675502
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 100 Maximum: 100
Stop: 88 Minimum: 88
Atmoshpheric Pressure (inches of Hg)
Start: 29.76 Maximum: 29.90
Stop: 29.90 Minimum: 29.76
Other weather comment:

Requested Analysis

TO-15 limited list (see email)

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.	TO-15 limited list (see email)
1	SVE-INF (061522)	SV	NR	A502	1L	FC162	6/15/22	1637	-30	100	IJR	6/15/22	1649	-4	99	IJR	✓
2	SVE-EFF (061522)	SV	NR	A1119	1L	FC784	6/15/22	1655	-28	99	IJR	6/15/22	1701	-3	99	IJR	✓
3	SVE-INF (061622)	SV	NR	A798	1L	FC573	6/16/22	1130	-28	88	IJR	6/16/22	1134	-5	88	IJR	✓
4	SVE-EFF (061622)	SV	NR	A604	1L	FC1014	6/16/22	1135	-27	8	IJR	6/16/22	1140	-5	88	IJR	✓

Turnaround Time (Business days)

- 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		6/16 8:20		1	2	6/17/22 1400	2 Fed Ex
3	Fedex	6/18/22	11:00	3 ~~Fedex~~	4 ~~Fedex~~	06/20/22	4
5	Relinquished by:	Date / Time:		Received By:	Custody Seal #		

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

Initial Assessment NA (4B)
Label Verification

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

5.1 5

JD47017: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD47017 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 6/18/2022 11:00:00 AM **Delivery Method:** **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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 06/18/22

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
A1093	6	29.4	08/10/18	RC	CP9918	5W32103.D	JD47017-1	06/22/22	ML				1
A1119	1	29.4	06/08/22	CB	CP11653	2W59102.D	JD47017-2	06/22/22	ML	2			1
A798	1	29.4	06/08/22	CB	CP11718	2W59261.D	JD47017-3	06/22/22	ML	4.5			1
A604	1	29.4	06/08/22	CB	CP11760	2W59688.D	JD47017-4	06/22/22	ML	7			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
FC162	06/08/22	CB	183	.08	06/29/22	ML	190	3.8	Flow Controller
FC573	06/08/22	CB	185	.08	06/29/22	ML	193	4.2	Flow Controller
FC784	06/08/22	CB	185	.08	06/29/22	ML	188	1.6	Flow Controller
FC1014	06/08/22	CB	187	.08	06/29/22	ML	180	3.8	Flow Controller

SGS Bottle Order(s):
BW-06622-214
MJ-081018-56

Prep Date	Room Temp(F)	Bar Pres "Hg
08/10/18	70	29.92
06/08/22	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-MB	3W76659.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-MB	3W76659.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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	114%	65-128%

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-MB	3W76659.D	1	06/27/22	BK	n/a	n/a	V3W3017

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

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.23	17	ppbv	JN
	system artifact	23.86	.33	ppbv	J
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3018-MB	3W76688.D	1	06/28/22	TCH	n/a	n/a	V3W3018

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-3, JD47017-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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	106%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.23	22	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-MB	3W76747.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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	109%	65-128%

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-MB	6W24835.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: **Method:** TO-15

V6W1064-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-MB	6W24835.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: **Method:** TO-15

V6W1064-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-MB	6W24835.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: **Method:** TO-15

V6W1064-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-MB	2W59241.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: **Method:** TO-15

V2W2635-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-MB	2W59241.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: **Method:** TO-15

V2W2635-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-MB	2W59241.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: **Method:** TO-15

V2W2635-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-MB	2W59677.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: **Method:** TO-15

V2W2652-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-MB	2W59677.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: **Method:** TO-15

V2W2652-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-MB	2W59677.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: **Method:** TO-15

V2W2652-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-BS	3W76655.D	1	06/27/22	BK	n/a	n/a	V3W3017
V3W3017-BSD	3W76656.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.6	76	7.7	77	1	70-130/30
106-99-0	1,3-Butadiene	10	8.9	89	8.9	89	0	70-130/30
71-43-2	Benzene	10	9.4	94	9.5	95	1	70-130/30
75-27-4	Bromodichloromethane	10	9.6	96	9.6	96	0	70-130/30
75-25-2	Bromoform	10	12.6	126	12.5	125	1	70-130/30
74-83-9	Bromomethane	10	10.4	104	10.4	104	0	70-130/30
593-60-2	Bromoethene	10	11.1	111	11.1	111	0	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	8.9	89	9.0	90	1	70-130/30
108-90-7	Chlorobenzene	10	11.7	117	11.8	118	1	70-130/30
75-00-3	Chloroethane	10	10.6	106	10.6	106	0	70-130/30
67-66-3	Chloroform	10	8.7	87	8.8	88	1	70-130/30
74-87-3	Chloromethane	10	8.3	83	8.3	83	0	70-130/30
107-05-1	3-Chloropropene	10	8.8	88	8.8	88	0	70-130/30
95-49-8	2-Chlorotoluene	10	12.6	126	12.6	126	0	70-130/30
56-23-5	Carbon tetrachloride	10	8.6	86	8.6	86	0	70-130/30
110-82-7	Cyclohexane	10	8.8	88	8.9	89	1	70-130/30
75-34-3	1,1-Dichloroethane	10	8.1	81	8.1	81	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.3	93	9.4	94	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.1	111	11.1	111	0	70-130/30
107-06-2	1,2-Dichloroethane	10	8.7	87	8.7	87	0	70-130/30
78-87-5	1,2-Dichloropropane	10	8.1	81	8.2	82	1	70-130/30
123-91-1	1,4-Dioxane	10	10.7	107	10.8	108	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.7	87	8.6	86	1	70-130/30
124-48-1	Dibromochloromethane	10	11.2	112	11.2	112	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.2	92	9.3	93	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.1	91	9.3	93	2	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	14.7	147* [a]	14.7	147* [a]	0	70-130/30
95-50-1	o-Dichlorobenzene	10	15.1	151* [a]	15.1	151* [a]	0	70-130/30
106-46-7	p-Dichlorobenzene	10	14.8	148* [a]	14.7	147* [a]	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.2	92	9.2	92	0	70-130/30
64-17-5	Ethanol	10	9.4	94	9.4	94	0	70-130/30
100-41-4	Ethylbenzene	10	10.8	108	10.9	109	1	70-130/30
141-78-6	Ethyl Acetate	10	8.0	80	8.0	80	0	70-130/30
622-96-8	4-Ethyltoluene	10	12.4	124	12.2	122	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-BS	3W76655.D	1	06/27/22	BK	n/a	n/a	V3W3017
V3W3017-BSD	3W76656.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.4	104	10.3	103	1	70-130/30
76-14-2	Freon 114	10	10.2	102	10.2	102	0	70-130/30
142-82-5	Heptane	10	7.4	74	7.4	74	0	70-130/30
87-68-3	Hexachlorobutadiene	10	16.0	160* [a]	15.9	159* [a]	1	70-130/30
110-54-3	Hexane	10	7.5	75	7.6	76	1	70-130/30
591-78-6	2-Hexanone	10	9.7	97	9.7	97	0	70-130/30
67-63-0	Isopropyl Alcohol	10	8.4	84	8.4	84	0	70-130/30
75-09-2	Methylene chloride	10	8.6	86	8.7	87	1	70-130/30
78-93-3	Methyl ethyl ketone	10	8.7	87	8.8	88	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.5	85	8.6	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.8	88	8.9	89	1	70-130/30
80-62-6	Methylmethacrylate	10	9.2	92	9.3	93	1	70-130/30
115-07-1	Propylene	10	6.9	69* [b]	6.9	69* [b]	0	70-130/30
100-42-5	Styrene	10	12.2	122	12.1	121	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.5	85	8.6	86	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.3	113	11.2	112	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	9.8	98	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	19.9	199* [a]	19.9	199* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.5	125	12.5	125	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.7	117	11.6	116	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.0	80	8.1	81	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.1	101	10.2	102	1	70-130/30
109-99-9	Tetrahydrofuran	10	8.6	86	8.7	87	1	70-130/30
108-88-3	Toluene	10	10.0	100	10.1	101	1	70-130/30
79-01-6	Trichloroethylene	10	9.9	99	9.9	99	0	70-130/30
75-69-4	Trichlorofluoromethane	10	8.8	88	8.8	88	0	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	10.2	102	0	70-130/30
108-05-4	Vinyl Acetate	10	10.8	108	10.9	109	1	70-130/30
	m,p-Xylene	20	23.5	118	23.6	118	0	70-130/30
95-47-6	o-Xylene	10	11.7	117	11.7	117	0	70-130/30
1330-20-7	Xylenes (total)	30	35.3	118	35.3	118	0	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	111%	112%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-BS	3W76655.D	1	06/27/22	BK	n/a	n/a	V3W3017
V3W3017-BSD	3W76656.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

(a) High percent recovery and no associated positive reported in the QC batch.
(b) Outside in house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3018-BS	3W76685.D	1	06/28/22	TCH	n/a	n/a	V3W3018
V3W3018-BSD	3W76686.D	1	06/28/22	TCH	n/a	n/a	V3W3018

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-3, JD47017-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	10	10.7	107	10.6	106	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-BS	3W76742.D	1	06/30/22	TCH	n/a	n/a	V3W3020
V3W3020-BSD	3W76745.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	10	11.7	117	11.2	112	4	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	114%	107%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-BS	6W24832.D	1	04/11/22	TCH	n/a	n/a	V6W1064
V6W1064-BSD	6W24833.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: **Method:** TO-15

V6W1064-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.2	72	7.3	73	1	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	10.1	101	5	70-130/30
71-43-2	Benzene	10	10.7	107	10.6	106	1	70-130/30
75-27-4	Bromodichloromethane	10	11.4	114	11.6	116	2	70-130/30
75-25-2	Bromoform	10	13.5	135* [a]	14.2	142* [a]	5	70-130/30
74-83-9	Bromomethane	10	9.7	97	10.2	102	5	70-130/30
593-60-2	Bromoethene	10	10.2	102	10.8	108	6	70-130/30
100-44-7	Benzyl Chloride	10	9.8	98	10.5	105	7	70-130/30
75-15-0	Carbon disulfide	10	9.7	97	9.5	95	2	70-130/30
108-90-7	Chlorobenzene	10	9.0	90	9.1	91	1	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.9	99	4	70-130/30
67-66-3	Chloroform	10	11.4	114	11.4	114	0	70-130/30
74-87-3	Chloromethane	10	8.2	82	8.6	86	5	70-130/30
107-05-1	3-Chloropropene	10	10.8	108	10.6	106	2	70-130/30
95-49-8	2-Chlorotoluene	10	11.1	111	11.6	116	4	70-130/30
56-23-5	Carbon tetrachloride	10	13.9	139* [a]	14.3	143* [a]	3	70-130/30
110-82-7	Cyclohexane	10	12.3	123	12.0	120	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10.7	107	10.5	105	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	12.4	124	12.3	123	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.9	109	11.3	113	4	70-130/30
107-06-2	1,2-Dichloroethane	10	14.1	141* [a]	14.4	144* [a]	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	9.9	99	2	70-130/30
123-91-1	1,4-Dioxane	10	8.3	83	8.3	83	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.8	118	12.5	125	6	70-130/30
124-48-1	Dibromochloromethane	10	12.6	126	13.2	132* [a]	5	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	11.7	117	11.4	114	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	12.3	123	12.1	121	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.9	119	12.0	120	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.6	116	12.3	123	6	70-130/30
95-50-1	o-Dichlorobenzene	10	11.6	116	12.3	123	6	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	13.0	130	13.2	132* [a]	2	70-130/30
64-17-5	Ethanol	10	7.5	75	8.0	80	6	70-130/30
100-41-4	Ethylbenzene	10	11.3	113	11.4	114	1	70-130/30
141-78-6	Ethyl Acetate	10	10.5	105	10.3	103	2	70-130/30
622-96-8	4-Ethyltoluene	10	10.6	106	11.2	112	6	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-BS	6W24832.D	1	04/11/22	TCH	n/a	n/a	V6W1064
V6W1064-BSD	6W24833.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: **Method:** TO-15

V6W1064-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	10.3	103	1	70-130/30
76-14-2	Freon 114	10	11.1	111	11.6	116	4	70-130/30
142-82-5	Heptane	10	11.5	115	11.7	117	2	70-130/30
87-68-3	Hexachlorobutadiene	10	12.8	128	14.1	141* [a]	10	70-130/30
110-54-3	Hexane	10	10.9	109	10.8	108	1	70-130/30
591-78-6	2-Hexanone	10	10.5	105	10.6	106	1	70-130/30
67-63-0	Isopropyl Alcohol	10	7.9	79	8.3	83	5	70-130/30
75-09-2	Methylene chloride	10	8.7	87	8.6	86	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10.4	104	10.1	101	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.3	113	11.3	113	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	13.5	135* [a]	13.4	134* [a]	1	70-130/30
80-62-6	Methylmethacrylate	10	12.2	122	12.1	121	1	70-130/30
115-07-1	Propylene	10	13.1	131* [a]	13.7	137* [a]	4	70-130/30
100-42-5	Styrene	10	10.9	109	11.1	111	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	12.6	126	12.7	127	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	8.6	86	8.8	88	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10	100	10.1	101	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93	10.2	102	9	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.1	101	10.7	107	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.9	119	12.4	124	4	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.9	109	10.9	109	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	12.6	126	12.8	128	2	70-130/30
127-18-4	Tetrachloroethylene	10	13.6	136* [a]	14.4	144* [a]	6	70-130/30
109-99-9	Tetrahydrofuran	10	11.6	116	11.3	113	3	70-130/30
108-88-3	Toluene	10	11.7	117	12.0	120	3	70-130/30
79-01-6	Trichloroethylene	10	10.7	107	10.9	109	2	70-130/30
75-69-4	Trichlorofluoromethane	10	12.0	120	12.9	129	7	70-130/30
75-01-4	Vinyl chloride	10	9.6	96	10.0	100	4	70-130/30
108-05-4	Vinyl Acetate	10	13.2	132* [a]	13.1	131* [a]	1	70-130/30
	m,p-Xylene	20	21.7	109	23.9	120	10	70-130/30
95-47-6	o-Xylene	10	11.1	111	11.5	115	4	70-130/30
1330-20-7	Xylenes (total)	30	32.8	109	35.4	118	8	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-BS	6W24832.D	1	04/11/22	TCH	n/a	n/a	V6W1064
V6W1064-BSD	6W24833.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: **Method:** TO-15

V6W1064-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	100%	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: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-BS	2W59238.D	1	05/12/22	TCH	n/a	n/a	V2W2635
V2W2635-BSD	2W59239.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: **Method:** TO-15

V2W2635-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	8.7	87	4	70-130/30
106-99-0	1,3-Butadiene	10	9.4	94	9.9	99	5	70-130/30
71-43-2	Benzene	10	10.6	106	10.5	105	1	70-130/30
75-27-4	Bromodichloromethane	10	10.5	105	10.6	106	1	70-130/30
75-25-2	Bromoform	10	11.4	114	11.5	115	1	70-130/30
74-83-9	Bromomethane	10	9.4	94	9.6	96	2	70-130/30
593-60-2	Bromoethene	10	9.8	98	9.9	99	1	70-130/30
100-44-7	Benzyl Chloride	10	9.7	97	9.9	99	2	70-130/30
75-15-0	Carbon disulfide	10	9.7	97	9.8	98	1	70-130/30
108-90-7	Chlorobenzene	10	9.9	99	10	100	1	70-130/30
75-00-3	Chloroethane	10	9.3	93	9.5	95	2	70-130/30
67-66-3	Chloroform	10	10.2	102	10.5	105	3	70-130/30
74-87-3	Chloromethane	10	8.5	85	8.9	89	5	70-130/30
107-05-1	3-Chloropropene	10	9.2	92	9.2	92	0	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.7	107	2	70-130/30
56-23-5	Carbon tetrachloride	10	11.6	116	11.8	118	2	70-130/30
110-82-7	Cyclohexane	10	9.9	99	9.8	98	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.1	101	10.3	103	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.8	98	9.9	99	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.9	99	10.1	101	2	70-130/30
107-06-2	1,2-Dichloroethane	10	11.3	113	11.6	116	3	70-130/30
78-87-5	1,2-Dichloropropane	10	9.5	95	9.6	96	1	70-130/30
123-91-1	1,4-Dioxane	10	9.3	93	9.4	94	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.3	93	9.7	97	4	70-130/30
124-48-1	Dibromochloromethane	10	10.5	105	10.6	106	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	9.7	97	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.7	97	9.8	98	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.7	97	9.7	97	0	70-130/30
541-73-1	m-Dichlorobenzene	10	11.0	110	11.2	112	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.3	113	11.5	115	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.7	107	10.9	109	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.6	96	9.7	97	1	70-130/30
64-17-5	Ethanol	10	9.1	91	9.5	95	4	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.3	103	1	70-130/30
141-78-6	Ethyl Acetate	10	9.1	91	9.5	95	4	70-130/30
622-96-8	4-Ethyltoluene	10	11.1	111	11.4	114	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-BS	2W59238.D	1	05/12/22	TCH	n/a	n/a	V2W2635
V2W2635-BSD	2W59239.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: **Method:** TO-15

V2W2635-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	10.5	105	3	70-130/30
76-14-2	Freon 114	10	10.0	100	10	100	0	70-130/30
142-82-5	Heptane	10	10.5	105	10.8	108	3	70-130/30
87-68-3	Hexachlorobutadiene	10	12.1	121	12.4	124	2	70-130/30
110-54-3	Hexane	10	9.5	95	9.8	98	3	70-130/30
591-78-6	2-Hexanone	10	9.7	97	9.9	99	2	70-130/30
67-63-0	Isopropyl Alcohol	10	9.2	92	9.7	97	5	70-130/30
75-09-2	Methylene chloride	10	8.0	80	8.1	81	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.3	93	9.3	93	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.9	99	10.0	100	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	10.3	103	2	70-130/30
80-62-6	Methylmethacrylate	10	9.4	94	9.5	95	1	70-130/30
115-07-1	Propylene	10	9.5	95	10	100	5	70-130/30
100-42-5	Styrene	10	10.3	103	10.3	103	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.8	108	11.2	112	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.9	109	11.0	110	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.9	99	10.1	101	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.7	97	9.9	99	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.7	117	11.8	118	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.4	114	11.7	117	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.1	101	10.3	103	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.7	107	11.2	112	5	70-130/30
127-18-4	Tetrachloroethylene	10	10.8	108	10.9	109	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.2	92	9.4	94	2	70-130/30
108-88-3	Toluene	10	9.8	98	9.9	99	1	70-130/30
79-01-6	Trichloroethylene	10	10.2	102	10.3	103	1	70-130/30
75-69-4	Trichlorofluoromethane	10	11.1	111	11.4	114	3	70-130/30
75-01-4	Vinyl chloride	10	9.4	94	9.7	97	3	70-130/30
108-05-4	Vinyl Acetate	10	9.7	97	9.9	99	2	70-130/30
	m,p-Xylene	20	21.6	108	21.9	110	1	70-130/30
95-47-6	o-Xylene	10	10.9	109	11.0	110	1	70-130/30
1330-20-7	Xylenes (total)	30	32.5	108	32.9	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-BS	2W59238.D	1	05/12/22	TCH	n/a	n/a	V2W2635
V2W2635-BSD	2W59239.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: **Method:** TO-15

V2W2635-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	105%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-BS	2W59674.D	1	05/31/22	TCH	n/a	n/a	V2W2652
V2W2652-BSD	2W59675.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: **Method:** TO-15

V2W2652-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	9.2	92	4	70-130/30
106-99-0	1,3-Butadiene	10	10.4	104	10.4	104	0	70-130/30
71-43-2	Benzene	10	9.2	92	9.5	95	3	70-130/30
75-27-4	Bromodichloromethane	10	11.0	110	11.0	110	0	70-130/30
75-25-2	Bromoform	10	12.4	124	12.7	127	2	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.7	97	1	70-130/30
593-60-2	Bromoethene	10	10.0	100	10.1	101	1	70-130/30
100-44-7	Benzyl Chloride	10	13.5	135* [a]	13.7	137* [a]	1	70-130/30
75-15-0	Carbon disulfide	10	10.2	102	10.2	102	0	70-130/30
108-90-7	Chlorobenzene	10	11.0	110	11.1	111	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10	10.4	104	10.5	105	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	10.5	105	10.4	104	1	70-130/30
95-49-8	2-Chlorotoluene	10	11.3	113	11.5	115	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.3	103	10.7	107	4	70-130/30
110-82-7	Cyclohexane	10	10.2	102	10.6	106	4	70-130/30
75-34-3	1,1-Dichloroethane	10	10.6	106	10.8	108	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	11.2	112	11.0	110	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.2	102	1	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	10.2	102	1	70-130/30
123-91-1	1,4-Dioxane	10	10.2	102	10	100	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.7	87	8.6	86	1	70-130/30
124-48-1	Dibromochloromethane	10	12.0	120	11.8	118	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.1	101	10.2	102	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.2	102	10.3	103	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.7	107	10.7	107	0	70-130/30
541-73-1	m-Dichlorobenzene	10	12.1	121	12.4	124	2	70-130/30
95-50-1	o-Dichlorobenzene	10	12.5	125	12.7	127	2	70-130/30
106-46-7	p-Dichlorobenzene	10	12.0	120	12.2	122	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.1	111	11.3	113	2	70-130/30
64-17-5	Ethanol	10	9.2	92	9.2	92	0	70-130/30
100-41-4	Ethylbenzene	10	11.1	111	11.2	112	1	70-130/30
141-78-6	Ethyl Acetate	10	11.3	113	11.5	115	2	70-130/30
622-96-8	4-Ethyltoluene	10	12.2	122	12.5	125	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-BS	2W59674.D	1	05/31/22	TCH	n/a	n/a	V2W2652
V2W2652-BSD	2W59675.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: **Method:** TO-15

V2W2652-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	10.3	103	1	70-130/30
76-14-2	Freon 114	10	9.9	99	10.1	101	2	70-130/30
142-82-5	Heptane	10	11.5	115	11.6	116	1	70-130/30
87-68-3	Hexachlorobutadiene	10	13.6	136* [a]	13.6	136* [a]	0	70-130/30
110-54-3	Hexane	10	10.8	108	11.1	111	3	70-130/30
591-78-6	2-Hexanone	10	11.2	112	11.0	110	2	70-130/30
67-63-0	Isopropyl Alcohol	10	11.3	113	11.1	111	2	70-130/30
75-09-2	Methylene chloride	10	9.2	92	9.3	93	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.7	97	9.8	98	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.4	114	11.4	114	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	10.2	102	1	70-130/30
80-62-6	Methylmethacrylate	10	10.8	108	10.9	109	1	70-130/30
115-07-1	Propylene	10	9.6	96	9.8	98	2	70-130/30
100-42-5	Styrene	10	11.5	115	11.6	116	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.6	106	10.7	107	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	12.4	124	12.5	125	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.7	107	10.3	103	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	12.4	124	12.2	122	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	13.1	131* [b]	13.3	133* [b]	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	12.5	125	12.7	127	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.8	108	10.8	108	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.4	114	11.3	113	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.5	105	10.8	108	3	70-130/30
109-99-9	Tetrahydrofuran	10	10	100	10.1	101	1	70-130/30
108-88-3	Toluene	10	10.7	107	10.8	108	1	70-130/30
79-01-6	Trichloroethylene	10	10.6	106	10.8	108	2	70-130/30
75-69-4	Trichlorofluoromethane	10	10.5	105	10.5	105	0	70-130/30
75-01-4	Vinyl chloride	10	10.0	100	10.1	101	1	70-130/30
108-05-4	Vinyl Acetate	10	10.3	103	10.2	102	1	70-130/30
	m,p-Xylene	20	23.3	117	23.7	119	2	70-130/30
95-47-6	o-Xylene	10	11.9	119	12.0	120	1	70-130/30
1330-20-7	Xylenes (total)	30	35.2	117	35.8	119	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-BS	2W59674.D	1	05/31/22	TCH	n/a	n/a	V2W2652
V2W2652-BSD	2W59675.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: **Method:** TO-15

V2W2652-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	106%	105%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.
(b) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47214-1DUP	3W76661.D	1	06/27/22	BK	n/a	n/a	V3W3017
JD47214-1	3W76660.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	JD47214-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	4.2		4.3		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	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	6.6		6.5		2	25
100-41-4	Ethylbenzene	0.46		0.49	J	6	25
141-78-6	Ethyl Acetate	19.5		19.7		1	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47214-1DUP	3W76661.D	1	06/27/22	BK	n/a	n/a	V3W3017
JD47214-1	3W76660.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	JD47214-1 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	1.0		0.98		2	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	1.5		1.6		6	25
75-09-2	Methylene chloride	0.94		0.98		4	25
78-93-3	Methyl ethyl ketone	1.6		1.5		6	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	10.9		11.2		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	0.87		0.92		6	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	3.3		3.3		0	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.38		0.37	J	3	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		0.63	J	200* [a]	25
	m,p-Xylene	2.1		2.1		0	25
95-47-6	o-Xylene	0.79		0.86		8	25
1330-20-7	Xylenes (total)	2.9		3.0		3	25

CAS No.	Surrogate Recoveries	DUP	JD47214-1	Limits
460-00-4	4-Bromofluorobenzene	113%	114%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47214-1DUP	3W76661.D	1	06/27/22	BK	n/a	n/a	V3W3017
JD47214-1	3W76660.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47215-2DUP	3W76690.D	1.52	06/28/22	TCH	n/a	n/a	V3W3018
JD47215-2	3W76689.D	1.52	06/28/22	TCH	n/a	n/a	V3W3018

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-1, JD47017-3, JD47017-4

CAS No.	Compound	JD47215-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
127-18-4	Tetrachloroethylene	2.0		0.32		145* [a]	25

CAS No.	Surrogate Recoveries	DUP	JD47215-2	Limits
460-00-4	4-Bromofluorobenzene	105%	108%	65-128%

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47369-1DUP	3W76752.D	1	06/30/22	TCH	n/a	n/a	V3W3020
JD47369-1	3W76751.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

JD47017-2

CAS No.	Compound	JD47369-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
127-18-4	Tetrachloroethylene	0.11		0.11		0	25

CAS No.	Surrogate Recoveries	DUP	JD47369-1	Limits
460-00-4	4-Bromofluorobenzene	112%	111%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-SCC	6W24839.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here (Summa A490) applies to the following samples: **Method:** TO-15

Batch CP11653 cleaned 04/10/22: JD47017-2(A1119)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-SCC	6W24839.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here (Summa A490) applies to the following samples: **Method:** TO-15

Batch CP11653 cleaned 04/10/22: JD47017-2(A1119)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-SCC	6W24839.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here (Summa A490) applies to the following samples: **Method:** TO-15

Batch CP11653 cleaned 04/10/22: JD47017-2(A1119)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	65-128%

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-SCC	2W59259.D	1	05/13/22	TCH	n/a	n/a	V2W2635

The QC reported here (Summa A503) applies to the following samples: **Method:** TO-15

Batch CP11718 cleaned 04/29/22: JD47017-3(A798)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-SCC	2W59259.D	1	05/13/22	TCH	n/a	n/a	V2W2635

The QC reported here (Summa A503) applies to the following samples: **Method:** TO-15

Batch CP11718 cleaned 04/29/22: JD47017-3(A798)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-SCC	2W59259.D	1	05/13/22	TCH	n/a	n/a	V2W2635

The QC reported here (Summa A503) applies to the following samples: **Method:** TO-15

Batch CP11718 cleaned 04/29/22: JD47017-3(A798)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-SCC	2W59686.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here (Summa M191) applies to the following samples: **Method:** TO-15

Batch CP11760 cleaned 05/25/22: JD47017-4(A604)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-SCC	2W59686.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here (Summa M191) applies to the following samples: **Method:** TO-15

Batch CP11760 cleaned 05/25/22: JD47017-4(A604)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-SCC	2W59686.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here (Summa M191) applies to the following samples: **Method:** TO-15

Batch CP11760 cleaned 05/25/22: JD47017-4(A604)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	90%	65-128%

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2619-BFB
Lab File ID: 2W58805.D
Instrument ID: GCMS2W
Injection Date: 04/26/22
Injection Time: 12:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	89760	25.4		Pass
75	30.0 - 66.0% of mass 95	172117	48.8		Pass
95	Base peak, 100% relative abundance	352832	100.0		Pass
96	5.0 - 9.0% of mass 95	23155	6.56		Pass
173	Less than 2.0% of mass 174	2236	0.63	(0.90) [a]	Pass
174	50.0 - 120.0% of mass 95	249621	70.7		Pass
175	4.0 - 9.01% of mass 174	17403	4.93	(6.97) [a]	Pass
176	93.0 - 101.0% of mass 174	242859	68.8	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	15610	4.42	(6.43) [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
V2W2619-IC2619	2W58806.D	04/26/22	13:14	00:36	Initial cal 0.04
V2W2619-IC2619	2W58807.D	04/26/22	13:50	01:12	Initial cal 0.1
V2W2619-IC2619	2W58808.D	04/26/22	14:27	01:49	Initial cal 0.2
V2W2619-IC2619	2W58809.D	04/26/22	15:05	02:27	Initial cal 0.5
V2W2619-IC2619	2W58810.D	04/26/22	15:42	03:04	Initial cal 5
V2W2619-ICC2619	2W58811.D	04/26/22	16:18	03:40	Initial cal 10
V2W2619-IC2619	2W58812.D	04/26/22	16:55	04:17	Initial cal 20
V2W2619-IC2619	2W58813.D	04/26/22	17:37	04:59	Initial cal 40
V2W2619-IC2619	2W58814.D	04/26/22	18:20	05:42	Initial cal 50
V2W2619-ICV2619	2W58819.D	04/27/22	10:06	21:28	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2635-BFB
Lab File ID: 2W59236.D
Instrument ID: GCMS2W
Injection Date: 05/12/22
Injection Time: 07:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	125256	30.6		Pass
75	30.0 - 66.0% of mass 95	214912	52.4		Pass
95	Base peak, 100% relative abundance	409920	100.0		Pass
96	5.0 - 9.0% of mass 95	26051	6.36		Pass
173	Less than 2.0% of mass 174	1900	0.46	(0.65) [a]	Pass
174	50.0 - 120.0% of mass 95	292501	71.4		Pass
175	4.0 - 9.01% of mass 174	21104	5.15	(7.22) [a]	Pass
176	93.0 - 101.0% of mass 174	278827	68.0	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	17816	4.35	(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
V2W2635-CC2619	2W59237.D	05/12/22	07:38	00:38	Continuing cal 10
V2W2635-BS	2W59238.D	05/12/22	09:09	02:09	Blank Spike
V2W2635-BSD	2W59239.D	05/12/22	09:47	02:47	Blank Spike Duplicate
V2W2635-MB	2W59241.D	05/12/22	11:54	04:54	Method Blank
ZZZZZZ	2W59242.D	05/12/22	13:23	06:23	(unrelated sample)
ZZZZZZ	2W59243.D	05/12/22	14:01	07:01	(unrelated sample)
JD44448-10	2W59244.D	05/12/22	14:38	07:38	(used for QC only; not part of job JD47017)
JD44448-10DUP	2W59245.D	05/12/22	15:15	08:15	Duplicate
V2W2635-SCC	2W59246.D	05/12/22	15:58	08:58	Summa Cleaning Certification
V2W2635-SCC	2W59247.D	05/12/22	16:41	09:41	Summa Cleaning Certification
V2W2635-SCC	2W59248.D	05/12/22	17:23	10:23	Summa Cleaning Certification
ZZZZZZ	2W59249.D	05/12/22	18:01	11:01	(unrelated sample)
ZZZZZZ	2W59250.D	05/12/22	18:38	11:38	(unrelated sample)
ZZZZZZ	2W59251.D	05/12/22	19:14	12:14	(unrelated sample)
ZZZZZZ	2W59252.D	05/12/22	19:51	12:51	(unrelated sample)
ZZZZZZ	2W59253.D	05/12/22	20:29	13:29	(unrelated sample)
ZZZZZZ	2W59254.D	05/12/22	21:07	14:07	(unrelated sample)
ZZZZZZ	2W59255.D	05/12/22	21:45	14:45	(unrelated sample)
ZZZZZZ	2W59256.D	05/12/22	22:23	15:23	(unrelated sample)
ZZZZZZ	2W59257.D	05/12/22	23:00	16:00	(unrelated sample)
ZZZZZZ	2W59258.D	05/12/22	23:38	16:38	(unrelated sample)
V2W2635-SCC	2W59259.D	05/13/22	00:14	17:14	Summa Cleaning Certification
V2W2635-SCC	2W59260.D	05/13/22	00:51	17:51	Summa Cleaning Certification
V2W2635-SCC	2W59261.D	05/13/22	01:28	18:28	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2635-BFB	**Injection Date:**	05/12/22
Lab File ID:	2W59236.D	**Injection Time:**	07:00
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2635-SCC	2W59262.D	05/13/22	02:10	19:10	Summa Cleaning Certification
V2W2635-SCC	2W59263.D	05/13/22	02:53	19:53	Summa Cleaning Certification
V2W2635-SCC	2W59264.D	05/13/22	03:36	20:36	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2640-BFB	**Injection Date:**	05/17/22
Lab File ID:	2W59350.D	**Injection Time:**	15:59
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	67301	20.7		Pass
75	30.0 - 66.0% of mass 95	161493	49.8		Pass
95	Base peak, 100% relative abundance	324459	100.0		Pass
96	5.0 - 9.0% of mass 95	20840	6.42		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	266091	82.0		Pass
175	4.0 - 9.01% of mass 174	18581	5.73	(6.98) [a]	Pass
176	93.0 - 101.0% of mass 174	251008	77.4	(94.3) [a]	Pass
177	5.0 - 9.0% of mass 176	16071	4.95	(6.40) [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
V2W2640-IC2640	2W59351.D	05/17/22	16:34	00:35	Initial cal 0.04
V2W2640-IC2640	2W59352.D	05/17/22	17:10	01:11	Initial cal 0.1
V2W2640-IC2640	2W59353.D	05/17/22	17:47	01:48	Initial cal 0.2
V2W2640-IC2640	2W59354.D	05/17/22	18:26	02:27	Initial cal 0.5
V2W2640-IC2640	2W59355.D	05/17/22	19:02	03:03	Initial cal 5
V2W2640-ICC2640	2W59356.D	05/17/22	19:39	03:40	Initial cal 10
V2W2640-IC2640	2W59357.D	05/17/22	20:17	04:18	Initial cal 20
V2W2640-IC2640	2W59358.D	05/17/22	21:00	05:01	Initial cal 40
V2W2640-IC2640	2W59359.D	05/17/22	21:44	05:45	Initial cal 50
V2W2640-ICV2640	2W59370.D	05/18/22	15:24	23:25	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2652-BFB
Lab File ID: 2W59672.D
Instrument ID: GCMS2W
Injection Date: 05/31/22
Injection Time: 08:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	64437	23.7		Pass
75	30.0 - 66.0% of mass 95	144533	53.2		Pass
95	Base peak, 100% relative abundance	271467	100.0		Pass
96	5.0 - 9.0% of mass 95	17168	6.32		Pass
173	Less than 2.0% of mass 174	1152	0.42	(0.51) [a]	Pass
174	50.0 - 120.0% of mass 95	227029	83.6		Pass
175	4.0 - 9.01% of mass 174	15565	5.73	(6.86) [a]	Pass
176	93.0 - 101.0% of mass 174	219264	80.8	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	14135	5.21	(6.45) [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
V2W2652-CC2640	2W59673.D	05/31/22	09:21	00:36	Continuing cal 10
V2W2652-BS	2W59674.D	05/31/22	10:06	01:21	Blank Spike
V2W2652-BSD	2W59675.D	05/31/22	10:42	01:57	Blank Spike Duplicate
V2W2652-MB	2W59677.D	05/31/22	12:32	03:47	Method Blank
V2W2652-SCC	2W59678.D	05/31/22	13:14	04:29	Summa Cleaning Certification
V2W2652-SCC	2W59680.D	05/31/22	14:38	05:53	Summa Cleaning Certification
V2W2652-SCC	2W59681.D	05/31/22	15:20	06:35	Summa Cleaning Certification
V2W2652-SCC	2W59683.D	05/31/22	16:44	07:59	Summa Cleaning Certification
V2W2652-SCC	2W59684.D	05/31/22	17:25	08:40	Summa Cleaning Certification
V2W2652-SCC	2W59685.D	05/31/22	18:07	09:22	Summa Cleaning Certification
V2W2652-SCC	2W59686.D	05/31/22	18:44	09:59	Summa Cleaning Certification
V2W2652-SCC	2W59687.D	05/31/22	19:20	10:35	Summa Cleaning Certification
V2W2652-SCC	2W59688.D	05/31/22	19:57	11:12	Summa Cleaning Certification
JD45626-1	2W59689.D	05/31/22	20:40	11:55	(used for QC only; not part of job JD47017)
JD45626-1DUP	2W59690.D	05/31/22	21:24	12:39	Duplicate
ZZZZZZ	2W59691.D	05/31/22	22:07	13:22	(unrelated sample)
ZZZZZZ	2W59692.D	05/31/22	22:50	14:05	(unrelated sample)
ZZZZZZ	2W59693.D	05/31/22	23:34	14:49	(unrelated sample)
ZZZZZZ	2W59694.D	06/01/22	00:17	15:32	(unrelated sample)
ZZZZZZ	2W59695.D	06/01/22	01:02	16:17	(unrelated sample)
ZZZZZZ	2W59696.D	06/01/22	01:45	17:00	(unrelated sample)
ZZZZZZ	2W59697.D	06/01/22	02:29	17:44	(unrelated sample)
ZZZZZZ	2W59699.D	06/01/22	03:43	18:58	(unrelated sample)
ZZZZZZ	2W59700.D	06/01/22	04:20	19:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2652-BFB	**Injection Date:**	05/31/22
Lab File ID:	2W59672.D	**Injection Time:**	08:45
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2W59701.D	06/01/22	05:04	20:19	(unrelated sample)
ZZZZZZ	2W59702.D	06/01/22	05:48	21:03	(unrelated sample)
ZZZZZZ	2W59703.D	06/01/22	06:31	21:46	(unrelated sample)
ZZZZZZ	2W59704.D	06/01/22	07:15	22:30	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W2981-BFB
Lab File ID: 3W75770.D
Instrument ID: GCMS3W
Injection Date: 04/23/22
Injection Time: 00:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	15236	19.6		Pass
75	30.0 - 66.0% of mass 95	39237	50.5		Pass
95	Base peak, 100% relative abundance	77733	100.0		Pass
96	5.0 - 9.0% of mass 95	5108	6.57		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	73443	94.5		Pass
175	4.0 - 9.01% of mass 174	5665	7.29	(7.71) [a]	Pass
176	93.0 - 101.0% of mass 174	72512	93.3	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4712	6.06	(6.50) [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
V3W2981-IC2981	3W75772.D	04/23/22	02:17	01:53	Initial cal 0.04
V3W2981-IC2981	3W75773.D	04/23/22	03:04	02:40	Initial cal 0.1
V3W2981-IC2981	3W75774.D	04/23/22	03:51	03:27	Initial cal 0.2
V3W2981-IC2981	3W75775.D	04/23/22	04:39	04:15	Initial cal 0.5
V3W2981-IC2981	3W75776.D	04/23/22	05:26	05:02	Initial cal 5
V3W2981-ICC2981	3W75777.D	04/23/22	06:12	05:48	Initial cal 10
V3W2981-IC2981	3W75778.D	04/23/22	07:00	06:36	Initial cal 20
V3W2981-IC2981	3W75779.D	04/23/22	07:52	07:28	Initial cal 40
V3W2981-IC2981	3W75780.D	04/23/22	08:46	08:22	Initial cal 50
V3W2981-ICV2981	3W75784.D	04/23/22	11:54	11:30	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3017-BFB	**Injection Date:**	06/27/22
Lab File ID:	3W76652.D	**Injection Time:**	09:24
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	59688	19.3		Pass
75	30.0 - 66.0% of mass 95	157653	50.9		Pass
95	Base peak, 100% relative abundance	310016	100.0		Pass
96	5.0 - 9.0% of mass 95	20677	6.67		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	342869	110.6		Pass
175	4.0 - 9.01% of mass 174	28376	9.15	(8.28) [a]	Pass
176	93.0 - 101.0% of mass 174	339157	109.4	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	23363	7.54	(6.89) [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
V3W3017-CC2981	3W76654.D	06/27/22	11:03	01:39	Continuing cal 10
V3W3017-BS	3W76655.D	06/27/22	11:53	02:29	Blank Spike
V3W3017-BSD	3W76656.D	06/27/22	12:43	03:19	Blank Spike Duplicate
V3W3017-MB	3W76659.D	06/27/22	15:22	05:58	Method Blank
JD47214-1	3W76660.D	06/27/22	16:13	06:49	(used for QC only; not part of job JD47017)
JD47214-1DUP	3W76661.D	06/27/22	17:02	07:38	Duplicate
ZZZZZZ	3W76662.D	06/27/22	17:51	08:27	(unrelated sample)
ZZZZZZ	3W76663.D	06/27/22	18:39	09:15	(unrelated sample)
ZZZZZZ	3W76664.D	06/27/22	19:29	10:05	(unrelated sample)
ZZZZZZ	3W76665.D	06/27/22	20:18	10:54	(unrelated sample)
ZZZZZZ	3W76666.D	06/27/22	21:06	11:42	(unrelated sample)
ZZZZZZ	3W76667.D	06/27/22	21:53	12:29	(unrelated sample)
ZZZZZZ	3W76668.D	06/27/22	22:42	13:18	(unrelated sample)
ZZZZZZ	3W76669.D	06/27/22	23:32	14:08	(unrelated sample)
ZZZZZZ	3W76670.D	06/28/22	00:19	14:55	(unrelated sample)
ZZZZZZ	3W76671.D	06/28/22	01:06	15:42	(unrelated sample)
ZZZZZZ	3W76672.D	06/28/22	01:56	16:32	(unrelated sample)
ZZZZZZ	3W76673.D	06/28/22	02:44	17:20	(unrelated sample)
ZZZZZZ	3W76674.D	06/28/22	03:37	18:13	(unrelated sample)
ZZZZZZ	3W76675.D	06/28/22	04:34	19:10	(unrelated sample)
JD47017-2	3W76676.D	06/28/22	05:22	19:58	SVE-EFF(061522)
JD47017-3	3W76677.D	06/28/22	06:11	20:47	SVE-INF(061622)
JD47017-4	3W76678.D	06/28/22	06:59	21:35	SVE-EFF(061622)
JD47017-1	3W76679.D	06/28/22	07:48	22:24	SVE-INF(061522)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3017-BFB	**Injection Date:**	06/27/22
Lab File ID:	3W76652.D	**Injection Time:**	09:24
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W76680.D	06/28/22	08:37	23:13	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3018-BFB
Lab File ID: 3W76683.D
Instrument ID: GCMS3W
Injection Date: 06/28/22
Injection Time: 11:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	23571	21.9		Pass
75	30.0 - 66.0% of mass 95	58555	54.3		Pass
95	Base peak, 100% relative abundance	107819	100.0		Pass
96	5.0 - 9.0% of mass 95	6858	6.36		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	115792	107.4		Pass
175	4.0 - 9.01% of mass 174	9907	9.19	(8.56) [a]	Pass
176	93.0 - 101.0% of mass 174	115368	107.0	(99.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7402	6.87	(6.42) [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
V3W3018-CC2981	3W76684.D	06/28/22	12:24	00:48	Continuing cal 10
V3W3018-BS	3W76685.D	06/28/22	13:24	01:48	Blank Spike
V3W3018-BSD	3W76686.D	06/28/22	14:13	02:37	Blank Spike Duplicate
V3W3018-MB	3W76688.D	06/28/22	15:55	04:19	Method Blank
JD47215-2	3W76689.D	06/28/22	16:52	05:16	(used for QC only; not part of job JD47017)
JD47215-2DUP	3W76690.D	06/28/22	17:41	06:05	Duplicate
ZZZZZZ	3W76691.D	06/28/22	18:29	06:53	(unrelated sample)
ZZZZZZ	3W76692.D	06/28/22	19:12	07:36	(unrelated sample)
ZZZZZZ	3W76693.D	06/28/22	19:52	08:16	(unrelated sample)
ZZZZZZ	3W76694.D	06/28/22	20:34	08:58	(unrelated sample)
ZZZZZZ	3W76695.D	06/28/22	21:13	09:37	(unrelated sample)
ZZZZZZ	3W76696.D	06/28/22	21:51	10:15	(unrelated sample)
ZZZZZZ	3W76697.D	06/28/22	22:33	10:57	(unrelated sample)
ZZZZZZ	3W76698.D	06/28/22	23:19	11:43	(unrelated sample)
ZZZZZZ	3W76699.D	06/29/22	00:04	12:28	(unrelated sample)
ZZZZZZ	3W76700.D	06/29/22	00:49	13:13	(unrelated sample)
ZZZZZZ	3W76701.D	06/29/22	01:33	13:57	(unrelated sample)
ZZZZZZ	3W76702.D	06/29/22	02:18	14:42	(unrelated sample)
ZZZZZZ	3W76703.D	06/29/22	03:03	15:27	(unrelated sample)
ZZZZZZ	3W76704.D	06/29/22	03:49	16:13	(unrelated sample)
ZZZZZZ	3W76705.D	06/29/22	04:34	16:58	(unrelated sample)
JD47017-3	3W76707.D	06/29/22	05:53	18:17	SVE-INF(061622)
JD47017-4	3W76708.D	06/29/22	06:31	18:55	SVE-EFF(061622)
JD47017-1	3W76709.D	06/29/22	07:10	19:34	SVE-INF(061522)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3020-BFB
Lab File ID: 3W76740.D
Instrument ID: GCMS3W
Injection Date: 06/30/22
Injection Time: 08:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	20771	21.2		Pass
75	30.0 - 66.0% of mass 95	52584	53.6		Pass
95	Base peak, 100% relative abundance	98040	100.0		Pass
96	5.0 - 9.0% of mass 95	6533	6.66		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	114477	116.8		Pass
175	4.0 - 9.01% of mass 174	9202	9.39	(8.04) [a]	Pass
176	93.0 - 101.0% of mass 174	112035	114.3	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	7456	7.61	(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
V3W3020-CC2981	3W76741.D	06/30/22	08:59	00:46	Continuing cal 10
V3W3020-BS	3W76742.D	06/30/22	09:39	01:26	Blank Spike
V3W3020-BSD	3W76745.D	06/30/22	12:55	04:42	Blank Spike Duplicate
V3W3020-MB	3W76747.D	06/30/22	14:25	06:12	Method Blank
V3W3020-SCC	3W76748.D	06/30/22	15:13	07:00	Summa Cleaning Certification
V3W3020-SCC	3W76749.D	06/30/22	15:53	07:40	Summa Cleaning Certification
V3W3020-SCC	3W76750.D	06/30/22	16:34	08:21	Summa Cleaning Certification
JD47369-1	3W76751.D	06/30/22	17:20	09:07	(used for QC only; not part of job JD47017)
JD47369-1DUP	3W76752.D	06/30/22	18:07	09:54	Duplicate
ZZZZZZ	3W76755.D	06/30/22	20:19	12:06	(unrelated sample)
ZZZZZZ	3W76756.D	06/30/22	21:05	12:52	(unrelated sample)
ZZZZZZ	3W76757.D	06/30/22	21:52	13:39	(unrelated sample)
ZZZZZZ	3W76758.D	06/30/22	22:38	14:25	(unrelated sample)
ZZZZZZ	3W76759.D	06/30/22	23:23	15:10	(unrelated sample)
ZZZZZZ	3W76760.D	07/01/22	00:08	15:55	(unrelated sample)
ZZZZZZ	3W76761.D	07/01/22	00:53	16:40	(unrelated sample)
ZZZZZZ	3W76762.D	07/01/22	01:37	17:24	(unrelated sample)
ZZZZZZ	3W76763.D	07/01/22	02:22	18:09	(unrelated sample)
ZZZZZZ	3W76764.D	07/01/22	03:01	18:48	(unrelated sample)
ZZZZZZ	3W76765.D	07/01/22	03:40	19:27	(unrelated sample)
ZZZZZZ	3W76766.D	07/01/22	04:21	20:08	(unrelated sample)
JD47017-2	3W76767.D	07/01/22	04:59	20:46	SVE-EFF(061522)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1062-BFB	**Injection Date:**	04/07/22
Lab File ID:	6W24755.D	**Injection Time:**	02:13
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	41987	21.4		Pass
75	30.0 - 66.0% of mass 95	98677	50.4		Pass
95	Base peak, 100% relative abundance	195755	100.0		Pass
96	5.0 - 9.0% of mass 95	12766	6.52		Pass
173	Less than 2.0% of mass 174	1994	1.02	(1.14) [a]	Pass
174	50.0 - 120.0% of mass 95	175168	89.5		Pass
175	4.0 - 9.0% of mass 174	12868	6.57	(7.35) [a]	Pass
176	93.0 - 101.0% of mass 174	170987	87.3	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	11494	5.87	(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
V6W1062-IC1062	6W24756.D	04/07/22	02:59	00:46	Initial cal 0.04
V6W1062-IC1062	6W24757.D	04/07/22	03:46	01:33	Initial cal 0.1
V6W1062-IC1062	6W24758.D	04/07/22	04:33	02:20	Initial cal 0.2
V6W1062-IC1062	6W24759.D	04/07/22	05:22	03:09	Initial cal 0.5
V6W1062-IC1062	6W24760.D	04/07/22	06:07	03:54	Initial cal 5
V6W1062-ICC1062	6W24761.D	04/07/22	06:54	04:41	Initial cal 10
V6W1062-IC1062	6W24762.D	04/07/22	07:43	05:30	Initial cal 20
V6W1062-IC1062	6W24763.D	04/07/22	08:35	06:22	Initial cal 40

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1062-BFB	**Injection Date:**	04/07/22
Lab File ID:	6W24775.D	**Injection Time:**	22:42
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	41379	22.6		Pass
75	30.0 - 66.0% of mass 95	94485	51.6		Pass
95	Base peak, 100% relative abundance	183147	100.0		Pass
96	5.0 - 9.0% of mass 95	12283	6.71		Pass
173	Less than 2.0% of mass 174	1729	0.94	(1.10) [a]	Pass
174	50.0 - 120.0% of mass 95	157461	86.0		Pass
175	4.0 - 9.0% of mass 174	11980	6.54	(7.61) [a]	Pass
176	93.0 - 101.0% of mass 174	151989	83.0	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	10068	5.50	(6.62) [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
V6W1062-ICV1062	6W24778.D	04/08/22	03:49	05:07	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V6W1064-BFB
Lab File ID: 6W24830.D
Instrument ID: GCMS6W
Injection Date: 04/11/22
Injection Time: 06:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	55165	23.1		Pass
75	30.0 - 66.0% of mass 95	122000	51.1		Pass
95	Base peak, 100% relative abundance	238677	100.0		Pass
96	5.0 - 9.0% of mass 95	15320	6.42		Pass
173	Less than 2.0% of mass 174	2976	1.25	(1.25) [a]	Pass
174	50.0 - 120.0% of mass 95	238635	100.0		Pass
175	4.0 - 9.0% of mass 174	17936	7.51	(7.52) [a]	Pass
176	93.0 - 101.0% of mass 174	230720	96.7	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	15523	6.50	(6.73) [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
V6W1064-CC1062	6W24831.D	04/11/22	09:05	02:25	Continuing cal 10
V6W1064-BS	6W24832.D	04/11/22	09:53	03:13	Blank Spike
V6W1064-BSD	6W24833.D	04/11/22	10:41	04:01	Blank Spike Duplicate
V6W1064-MB	6W24835.D	04/11/22	12:27	05:47	Method Blank
V6W1064-SCC	6W24836.D	04/11/22	13:59	07:19	Summa Cleaning Certification
V6W1064-SCC	6W24837.D	04/11/22	14:47	08:07	Summa Cleaning Certification
V6W1064-SCC	6W24838.D	04/11/22	15:35	08:55	Summa Cleaning Certification
V6W1064-SCC	6W24839.D	04/11/22	16:21	09:41	Summa Cleaning Certification
V6W1064-SCC	6W24842.D	04/11/22	18:54	12:14	Summa Cleaning Certification
V6W1064-SCC	6W24844.D	04/11/22	20:40	14:00	Summa Cleaning Certification
V6W1064-SCC	6W24845.D	04/11/22	21:32	14:52	Summa Cleaning Certification
V6W1064-SCC	6W24846.D	04/11/22	22:25	15:45	Summa Cleaning Certification
V6W1064-SCC	6W24848.D	04/12/22	00:09	17:29	Summa Cleaning Certification
V6W1064-SCC	6W24849.D	04/12/22	01:02	18:22	Summa Cleaning Certification
V6W1064-SCC	6W24850.D	04/12/22	01:55	19:15	Summa Cleaning Certification
V6W1064-SCC	6W24851.D	04/12/22	02:48	20:08	Summa Cleaning Certification
V6W1064-SCC	6W24852.D	04/12/22	03:40	21:00	Summa Cleaning Certification
V6W1064-SCC	6W24853.D	04/12/22	04:33	21:53	Summa Cleaning Certification
V6W1064-SCC	6W24854.D	04/12/22	05:26	22:46	Summa Cleaning Certification
V6W1064-SCC	6W24855.D	04/12/22	06:18	23:38	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD47017
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
JD47017-1	3W76709.D	100
JD47017-1	3W76679.D	105
JD47017-2	3W76767.D	107
JD47017-2	3W76676.D	113
JD47017-3	3W76707.D	97
JD47017-3	3W76677.D	110
JD47017-4	3W76708.D	97
JD47017-4	3W76678.D	110
JD47214-1DUP	3W76661.D	113
JD47215-2DUP	3W76690.D	105
JD47369-1DUP	3W76752.D	112
V2W2635-SCC	2W59259.D	94
V2W2652-SCC	2W59686.D	90
V3W3017-BS	3W76655.D	111
V3W3017-BSD	3W76656.D	112
V3W3017-MB	3W76659.D	114
V3W3018-BS	3W76685.D	104
V3W3018-BSD	3W76686.D	103
V3W3018-MB	3W76688.D	106
V3W3020-BS	3W76742.D	114
V3W3020-BSD	3W76745.D	107
V3W3020-MB	3W76747.D	109
V6W1064-SCC	6W24839.D	101
V2W2635-BS	2W59238.D	104
V2W2635-BSD	2W59239.D	105
V2W2635-MB	2W59241.D	95
V2W2652-BS	2W59674.D	106
V2W2652-BSD	2W59675.D	105
V2W2652-MB	2W59677.D	96
V6W1064-BS	6W24832.D	98
V6W1064-BSD	6W24833.D	100
V6W1064-MB	6W24835.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

60663618

SGS Job Number: JD49031

Sampling Date: 07/27/22



Report to:

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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.

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: JD49031

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD49031-1	07/27/22	11:16	TD	07/28/22	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:**	JD49031
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	8/10/2022 9:18:18 AM

On 07/28/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD49031 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V3W3046

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD49028-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike / Blank Spike Duplicate Recovery(s) for 1,2,4-Trichlorobenzene are outside control limits. High percent recovery and no associated positive reported in the QC batch.
- RPD(s) for Duplicate for Chloroform, Hexane, Isopropyl Alcohol, Methylene chloride are outside control limits for sample JD49028-2DUP.
- JD49031-1 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.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD49031
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 07/27/22

Lab Sample ID / Analyte	Client Sample ID / Result/ Qual	RL	MDL	Units	Method
JD49031-1	**SVE-EFF**				
Acetone (2-Propanone)	48.2	2.0	1.5	ppbv	TO-15
Benzene	169	2.0	0.62	ppbv	TO-15
Chloromethane	1.3 J	2.0	0.90	ppbv	TO-15
cis-1,2-Dichloroethylene	0.96 J	2.0	0.77	ppbv	TO-15
Ethanol	7.9	5.0	3.9	ppbv	TO-15
Isopropyl Alcohol	47.8	2.0	1.4	ppbv	TO-15
Methylene chloride	1.7 J	2.0	0.56	ppbv	TO-15
Methyl ethyl ketone	3.6	2.0	1.1	ppbv	TO-15
1,1,1-Trichloroethane	1.3 J	2.0	0.37	ppbv	TO-15
Tetrachloroethylene	400	0.40	0.14	ppbv	TO-15
Tetrahydrofuran	1.5 J	2.0	0.90	ppbv	TO-15
Toluene	1.4 J	2.0	0.57	ppbv	TO-15
Trichloroethylene	0.95	0.40	0.19	ppbv	TO-15
Trichlorofluoromethane	1.2 J	2.0	0.36	ppbv	TO-15
Acetone (2-Propanone)	114	4.8	3.6	ug/m3	TO-15
Benzene	540	6.4	2.0	ug/m3	TO-15
Chloromethane	2.7 J	4.1	1.9	ug/m3	TO-15
cis-1,2-Dichloroethylene	3.8 J	7.9	3.1	ug/m3	TO-15
Ethanol	15	9.4	7.3	ug/m3	TO-15
Isopropyl Alcohol	117	4.9	3.4	ug/m3	TO-15
Methylene chloride	5.9 J	6.9	1.9	ug/m3	TO-15
Methyl ethyl ketone	11	5.9	3.2	ug/m3	TO-15
1,1,1-Trichloroethane	7.1 J	11	2.0	ug/m3	TO-15
Tetrachloroethylene	2710	2.7	0.95	ug/m3	TO-15
Tetrahydrofuran	4.4 J	5.9	2.7	ug/m3	TO-15
Toluene	5.3 J	7.5	2.1	ug/m3	TO-15
Trichloroethylene	5.1	2.1	1.0	ug/m3	TO-15
Trichlorofluoromethane	6.7 J	11	2.0	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD49031-1 **Date Sampled:** 07/27/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1534 **Date Received:** 07/28/22
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	3W77421.D	1	08/05/22 17:22	TCH	n/a	n/a	V3W3046
Run #2							

	Initial Volume
Run #1	40.0 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)	48.2	2.0	1.5	ppbv		114	4.8	3.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	2.0	0.84	ppbv		ND	4.4	1.9	ug/m3
71-43-2	78.11	Benzene	169	2.0	0.62	ppbv		540	6.4	2.0	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	2.0	0.30	ppbv		ND	13	2.0	ug/m3
75-25-2	252.8	Bromoform	ND	2.0	0.71	ppbv		ND	21	7.3	ug/m3
74-83-9	94.94	Bromomethane	ND	2.0	0.69	ppbv		ND	7.8	2.7	ug/m3
593-60-2	106.9	Bromoethene	ND	2.0	0.61	ppbv		ND	8.7	2.7	ug/m3
100-44-7	126	Benzyl Chloride	ND	2.0	1.3	ppbv		ND	10	6.7	ug/m3
75-15-0	76.14	Carbon disulfide	ND	2.0	0.45	ppbv		ND	6.2	1.4	ug/m3
108-90-7	112.6	Chlorobenzene	ND	2.0	0.74	ppbv		ND	9.2	3.4	ug/m3
75-00-3	64.52	Chloroethane	ND	2.0	0.68	ppbv		ND	5.3	1.8	ug/m3
67-66-3	119.4	Chloroform	ND	2.0	0.37	ppbv		ND	9.8	1.8	ug/m3
74-87-3	50.49	Chloromethane	1.3	2.0	0.90	ppbv	J	2.7	4.1	1.9	ug/m3
107-05-1	76.53	3-Chloropropene	ND	2.0	0.83	ppbv		ND	6.3	2.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	2.0	0.72	ppbv		ND	10	3.7	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	2.0	0.40	ppbv		ND	13	2.5	ug/m3
110-82-7	84.16	Cyclohexane	ND	2.0	1.1	ppbv		ND	6.9	3.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	2.0	0.57	ppbv		ND	8.1	2.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	2.0	0.59	ppbv		ND	7.9	2.3	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	2.0	0.97	ppbv		ND	15	7.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	2.0	0.70	ppbv		ND	8.1	2.8	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	2.0	0.62	ppbv		ND	9.2	2.9	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	2.0	1.2	ppbv		ND	7.2	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	2.0	0.32	ppbv		ND	9.9	1.6	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	2.0	0.52	ppbv		ND	17	4.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	2.0	0.69	ppbv		ND	7.9	2.7	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.96	2.0	0.77	ppbv	J	3.8	7.9	3.1	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	2.0	0.62	ppbv		ND	9.1	2.8	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	2.0	0.40	ppbv		ND	12	2.4	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	2.0	1.5	ppbv		ND	12	9.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	2.0	1.9	ppbv		ND	12	11	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	2.0	1.0	ppbv		ND	9.1	4.5	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: JD49031-1 **Date Sampled:** 07/27/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1534 **Date Received:** 07/28/22
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	7.9	5.0	3.9	ppbv		15	9.4	7.3	ug/m3
100-41-4	106.2	Ethylbenzene	ND	2.0	0.61	ppbv		ND	8.7	2.6	ug/m3
141-78-6	88	Ethyl Acetate	ND	2.0	1.0	ppbv		ND	7.2	3.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	2.0	0.95	ppbv		ND	9.8	4.7	ug/m3
76-13-1	187.4	Freon 113	ND	2.0	0.31	ppbv		ND	15	2.4	ug/m3
76-14-2	170.9	Freon 114	ND	2.0	0.50	ppbv		ND	14	3.5	ug/m3
142-82-5	100.2	Heptane	ND	2.0	0.92	ppbv		ND	8.2	3.8	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	2.0	0.62	ppbv		ND	21	6.6	ug/m3
110-54-3	86.18	Hexane	ND	2.0	1.1	ppbv		ND	7.0	3.9	ug/m3
591-78-6	100	2-Hexanone	ND	2.0	1.5	ppbv		ND	8.2	6.1	ug/m3
67-63-0	60.1	Isopropyl Alcohol	47.8	2.0	1.4	ppbv		117	4.9	3.4	ug/m3
75-09-2	84.94	Methylene chloride	1.7	2.0	0.56	ppbv	J	5.9	6.9	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.6	2.0	1.1	ppbv		11	5.9	3.2	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	2.0	0.73	ppbv		ND	8.2	3.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	2.0	0.80	ppbv		ND	7.2	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	2.0	0.70	ppbv		ND	8.2	2.9	ug/m3
115-07-1	42	Propylene	ND	5.0	1.4	ppbv		ND	8.6	2.4	ug/m3
100-42-5	104.1	Styrene	ND	2.0	1.2	ppbv		ND	8.5	5.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.3	2.0	0.37	ppbv	J	7.1	11	2.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	2.0	0.48	ppbv		ND	14	3.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	2.0	0.38	ppbv		ND	11	2.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [a]	ND	2.0	1.2	ppbv		ND	15	8.9	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	2.0	0.87	ppbv		ND	9.8	4.3	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	2.0	0.80	ppbv		ND	9.8	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	2.0	0.95	ppbv		ND	9.3	4.4	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	2.0	0.93	ppbv		ND	6.1	2.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	400	0.40	0.14	ppbv		2710	2.7	0.95	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.5	2.0	0.90	ppbv	J	4.4	5.9	2.7	ug/m3
108-88-3	92.14	Toluene	1.4	2.0	0.57	ppbv	J	5.3	7.5	2.1	ug/m3
79-01-6	131.4	Trichloroethylene	0.95	0.40	0.19	ppbv		5.1	2.1	1.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.2	2.0	0.36	ppbv	J	6.7	11	2.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	2.0	0.69	ppbv		ND	5.1	1.8	ug/m3
108-05-4	86	Vinyl Acetate	ND	2.0	1.1	ppbv		ND	7.0	3.9	ug/m3
	106.2	m,p-Xylene	ND	2.0	1.4	ppbv		ND	8.7	6.1	ug/m3
95-47-6	106.2	o-Xylene	ND	2.0	0.77	ppbv		ND	8.7	3.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	2.0	0.77	ppbv		ND	8.7	3.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		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:	JD49031-1	**Date Sampled:**	07/27/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1534	**Date Received:**	07/28/22
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

AC

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 # 5272 0643 6429
Bottle Order Control # BW 071322-37
SGS Quote #
SGS Job # JD49031

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd., Suite 200
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: 94°F Maximum:
Stop: 95°F Minimum:
Atmoshpheric Pressure (Inches of Hg)
Start: 30.10 Maximum: 30.10
Stop: 30.10 Minimum: 30.10
Other weather comment:

Requested Analysis

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.	VT0.15 STD
1	SVE-EFF	SV	NR	A1534	1L	FC840	7/27/22	1110	-29.5	95	TD	7/27/22	1116	0	95	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:
1		7/27/22 1030	1 Tim DicKey
2	Tim DicKey/AECOM	7/27/22 1715	2 FedEx
3	FedEx	7/28/22 09:49	3
4			4
5			5

Custody Seal #

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

Initial Assessment 4BJK
Label Verification

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

SGS Sample Receipt Summary

Job Number: JD49031 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 7/28/2022 9:49:00 AM **Delivery Method:** **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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 07/28/22

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
A1534	1.4	29.4	07/20/22	ML	CP11739	3W76750.D	JD49031-1	07/29/22	ML	1.5			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
FC840	07/20/22	ML	185	.0833	07/29/22	ML	209	12.2	Flow Controller

SGS Bottle Order(s):
BW-071322-37

Prep Date	Room Temp(F)	Bar Pres "Hg
07/20/22	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3046-MB	3W77413.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3046-MB	3W77413.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3046-MB	3W77413.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	65-128%

Method Blank Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-MB	3W76747.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

V3W3020-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-MB	3W76747.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

V3W3020-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-MB	3W76747.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

V3W3020-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	109%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3046-BS	3W77410.D	1	08/05/22	TCH	n/a	n/a	V3W3046
V3W3046-BSD	3W77411.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.4	74	7.3	73	1	70-130/30
106-99-0	1,3-Butadiene	10	8.0	80	7.9	79	1	70-130/30
71-43-2	Benzene	10	8.8	88	8.6	86	2	70-130/30
75-27-4	Bromodichloromethane	10	9.8	98	9.8	98	0	70-130/30
75-25-2	Bromoform	10	12.1	121	11.8	118	3	70-130/30
74-83-9	Bromomethane	10	10.3	103	10.4	104	1	70-130/30
593-60-2	Bromoethene	10	10.3	103	10.3	103	0	70-130/30
100-44-7	Benzyl Chloride	10	11.6	116	10.9	109	6	70-130/30
75-15-0	Carbon disulfide	10	8.8	88	8.6	86	2	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	9.4	94	4	70-130/30
75-00-3	Chloroethane	10	9.7	97	9.5	95	2	70-130/30
67-66-3	Chloroform	10	9.1	91	9.0	90	1	70-130/30
74-87-3	Chloromethane	10	7.6	76	7.6	76	0	70-130/30
107-05-1	3-Chloropropene	10	9.2	92	9.0	90	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.8	108	10.3	103	5	70-130/30
56-23-5	Carbon tetrachloride	10	9.4	94	9.5	95	1	70-130/30
110-82-7	Cyclohexane	10	8.5	85	8.4	84	1	70-130/30
75-34-3	1,1-Dichloroethane	10	7.9	79	7.8	78	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.8	88	8.8	88	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.7	107	10.2	102	5	70-130/30
107-06-2	1,2-Dichloroethane	10	8.8	88	8.8	88	0	70-130/30
78-87-5	1,2-Dichloropropane	10	8.4	84	8.2	82	2	70-130/30
123-91-1	1,4-Dioxane	10	9.7	97	9.6	96	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.7	97	9.6	96	1	70-130/30
124-48-1	Dibromochloromethane	10	10.4	104	10.1	101	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.8	88	8.7	87	1	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	9.3	93	9.2	92	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.9	119	11.4	114	4	70-130/30
95-50-1	o-Dichlorobenzene	10	11.6	116	11.2	112	4	70-130/30
106-46-7	p-Dichlorobenzene	10	11.7	117	11.3	113	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.6	96	9.5	95	1	70-130/30
64-17-5	Ethanol	10	8.6	86	8.4	84	2	70-130/30
100-41-4	Ethylbenzene	10	9.9	99	9.4	94	5	70-130/30
141-78-6	Ethyl Acetate	10	8.8	88	8.8	88	0	70-130/30
622-96-8	4-Ethyltoluene	10	10.2	102	9.7	97	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3046-BS	3W77410.D	1	08/05/22	TCH	n/a	n/a	V3W3046
V3W3046-BSD	3W77411.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.8	98	9.9	99	1	70-130/30
76-14-2	Freon 114	10	10.2	102	10.1	101	1	70-130/30
142-82-5	Heptane	10	7.4	74	7.3	73	1	70-130/30
87-68-3	Hexachlorobutadiene	10	12.8	128	12.8	128	0	70-130/30
110-54-3	Hexane	10	7.9	79	7.7	77	3	70-130/30
591-78-6	2-Hexanone	10	7.7	77	7.3	73	5	70-130/30
67-63-0	Isopropyl Alcohol	10	7.1	71	7.0	70	1	70-130/30
75-09-2	Methylene chloride	10	8.4	84	8.2	82	2	70-130/30
78-93-3	Methyl ethyl ketone	10	8.8	88	8.7	87	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	7.9	79	7.7	77	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.1	81	8.0	80	1	70-130/30
80-62-6	Methylmethacrylate	10	9.2	92	9.1	91	1	70-130/30
115-07-1	Propylene	10	7.2	72	7.0	70	3	70-130/30
100-42-5	Styrene	10	9.9	99	9.4	94	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.1	91	9.2	92	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.5	105	9.9	99	6	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.4	94	9.3	93	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	14.5	145* [a]	14.3	143* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.8	108	10.2	102	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.1	101	9.7	97	4	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.1	81	8.0	80	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	7.6	76	7.6	76	0	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10	100	2	70-130/30
109-99-9	Tetrahydrofuran	10	8.9	89	8.9	89	0	70-130/30
108-88-3	Toluene	10	9.0	90	8.9	89	1	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	9.1	91	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.7	97	9.8	98	1	70-130/30
75-01-4	Vinyl chloride	10	9.4	94	9.3	93	1	70-130/30
108-05-4	Vinyl Acetate	10	9.6	96	9.5	95	1	70-130/30
	m,p-Xylene	20	20.5	103	19.5	98	5	70-130/30
95-47-6	o-Xylene	10	10.4	104	9.9	99	5	70-130/30
1330-20-7	Xylenes (total)	30	30.9	103	29.4	98	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3046-BS	3W77410.D	1	08/05/22	TCH	n/a	n/a	V3W3046
V3W3046-BSD	3W77411.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	100%	99%	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-BS	3W76742.D	1	06/30/22	TCH	n/a	n/a	V3W3020
V3W3020-BSD	3W76745.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

V3W3020-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.1	101	9.8	98	3	70-130/30
106-99-0	1,3-Butadiene	10	11.6	116	11.3	113	3	70-130/30
71-43-2	Benzene	10	11.5	115	10.4	104	10	70-130/30
75-27-4	Bromodichloromethane	10	11.5	115	10.3	103	11	70-130/30
75-25-2	Bromoform	10	12.7	127	12.1	121	5	70-130/30
74-83-9	Bromomethane	10	12.1	121	11.7	117	3	70-130/30
593-60-2	Bromoethene	10	12.4	124	12.1	121	2	70-130/30
100-44-7	Benzyl Chloride	10	10.2	102	9.7	97	5	70-130/30
75-15-0	Carbon disulfide	10	11.1	111	10.9	109	2	70-130/30
108-90-7	Chlorobenzene	10	11.2	112	10.9	109	3	70-130/30
75-00-3	Chloroethane	10	13.9	139* [a]	13.4	134* [a]	4	70-130/30
67-66-3	Chloroform	10	10.3	103	9.9	99	4	70-130/30
74-87-3	Chloromethane	10	11.0	110	10.7	107	3	70-130/30
107-05-1	3-Chloropropene	10	10.9	109	10.7	107	2	70-130/30
95-49-8	2-Chlorotoluene	10	12.0	120	11.6	116	3	70-130/30
56-23-5	Carbon tetrachloride	10	9.4	94	9.0	90	4	70-130/30
110-82-7	Cyclohexane	10	10.6	106	9.5	95	11	70-130/30
75-34-3	1,1-Dichloroethane	10	10.4	104	10.1	101	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.5	105	10.2	102	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.8	108	10.5	105	3	70-130/30
107-06-2	1,2-Dichloroethane	10	10.5	105	10.1	101	4	70-130/30
78-87-5	1,2-Dichloropropane	10	11.0	110	9.9	99	11	70-130/30
123-91-1	1,4-Dioxane	10	13.0	130	11.6	116	11	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.0	100	9.6	96	4	70-130/30
124-48-1	Dibromochloromethane	10	10.5	105	10.1	101	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.3	103	10.0	100	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.2	102	10.1	101	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.2	112	10.1	101	10	70-130/30
541-73-1	m-Dichlorobenzene	10	14.1	141* [a]	13.5	135* [a]	4	70-130/30
95-50-1	o-Dichlorobenzene	10	14.6	146* [a]	13.9	139* [a]	5	70-130/30
106-46-7	p-Dichlorobenzene	10	14.2	142* [a]	13.6	136* [a]	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.1	111	10	100	10	70-130/30
64-17-5	Ethanol	10	12.7	127	12.3	123	3	70-130/30
100-41-4	Ethylbenzene	10	11.0	110	10.7	107	3	70-130/30
141-78-6	Ethyl Acetate	10	10.5	105	10.3	103	2	70-130/30
622-96-8	4-Ethyltoluene	10	12.0	120	11.6	116	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-BS	3W76742.D	1	06/30/22	TCH	n/a	n/a	V3W3020
V3W3020-BSD	3W76745.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

V3W3020-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.2	112	10.8	108	4	70-130/30
76-14-2	Freon 114	10	12.0	120	11.5	115	4	70-130/30
142-82-5	Heptane	10	10.4	104	9.3	93	11	70-130/30
87-68-3	Hexachlorobutadiene	10	16.1	161* [a]	15.1	151* [a]	6	70-130/30
110-54-3	Hexane	10	9.9	99	9.7	97	2	70-130/30
591-78-6	2-Hexanone	10	11.4	114	11.2	112	2	70-130/30
67-63-0	Isopropyl Alcohol	10	11.1	111	10.8	108	3	70-130/30
75-09-2	Methylene chloride	10	10.2	102	10.0	100	2	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	11.5	115	10.4	104	10	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.3	103	10.0	100	3	70-130/30
80-62-6	Methylmethacrylate	10	12.0	120	10.7	107	11	70-130/30
115-07-1	Propylene	10	8.4	84	8.4	84	0	70-130/30
100-42-5	Styrene	10	11.7	117	11.4	114	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	9.2	92	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	12.4	124	11.9	119	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	11.9	119	10.7	107	11	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	19.8	198* [a]	18.8	188* [a]	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.4	124	11.8	118	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.5	115	10.9	109	5	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.9	109	9.8	98	11	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	12.5	125	12.1	121	3	70-130/30
127-18-4	Tetrachloroethylene	10	11.7	117	11.2	112	4	70-130/30
109-99-9	Tetrahydrofuran	10	10.8	108	10.6	106	2	70-130/30
108-88-3	Toluene	10	11.6	116	10.4	104	11	70-130/30
79-01-6	Trichloroethylene	10	11.5	115	10.2	102	12	70-130/30
75-69-4	Trichlorofluoromethane	10	10.0	100	9.6	96	4	70-130/30
75-01-4	Vinyl chloride	10	13.2	132* [b]	12.8	128	3	70-130/30
108-05-4	Vinyl Acetate	10	12.5	125	12.4	124	1	70-130/30
	m,p-Xylene	20	23.0	115	22.2	111	4	70-130/30
95-47-6	o-Xylene	10	11.6	116	11.1	111	4	70-130/30
1330-20-7	Xylenes (total)	30	34.6	115	33.3	111	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-BS	3W76742.D	1	06/30/22	TCH	n/a	n/a	V3W3020
V3W3020-BSD	3W76745.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: **Method:** TO-15

V3W3020-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	114%	107%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.
(b) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD49028-2DUP	3W77420.D	1	08/05/22	TCH	n/a	n/a	V3W3046
JD49028-2	3W77419.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Compound	JD49028-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	4.0		3.7		8	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.14	J	0.11	J	24	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	0.14	J	0.27		63* [a]	25
74-87-3	Chloromethane	0.54		0.45		18	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	0.52		0.44		17	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	4.2		4.5		7	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	0.71		0.56		24	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD49028-2DUP	3W77420.D	1	08/05/22	TCH	n/a	n/a	V3W3046
JD49028-2	3W77419.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Compound	JD49028-2 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	0.38		0.62		48* [a]	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	1.4		0.61		79* [a]	25
75-09-2	Methylene chloride	1.2		1.6		29* [a]	25
78-93-3	Methyl ethyl ketone	0.49		0.45		9	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
127-18-4	Tetrachloroethylene	0.067		0.052		25	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.28		0.23		20	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	1.5		1.2		22	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		0.12	J	15	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD49028-2DUP	3W77420.D	1	08/05/22	TCH	n/a	n/a	V3W3046
JD49028-2	3W77419.D	1	08/05/22	TCH	n/a	n/a	V3W3046

The QC reported here applies to the following samples: **Method:** TO-15

JD49031-1

CAS No.	Surrogate Recoveries	DUP	JD49028-2	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

(a) Outside control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-SCC	3W76748.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here (Summa A1544) applies to the following samples: **Method:** TO-15

Batch CP11739 cleaned 06/01/22: JD49031-1(A1534)

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-SCC	3W76748.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here (Summa A1544) applies to the following samples: **Method:** TO-15

Batch CP11739 cleaned 06/01/22: JD49031-1(A1534)

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-SCC	3W76748.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here (Summa A1544) applies to the following samples: **Method:** TO-15

Batch CP11739 cleaned 06/01/22: JD49031-1(A1534)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	108%	65-128%

Instrument Performance Check (BFB)

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W2981-BFB
Lab File ID: 3W75770.D
Instrument ID: GCMS3W
Injection Date: 04/23/22
Injection Time: 00:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	15236	19.6		Pass
75	30.0 - 66.0% of mass 95	39237	50.5		Pass
95	Base peak, 100% relative abundance	77733	100.0		Pass
96	5.0 - 9.0% of mass 95	5108	6.57		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	73443	94.5		Pass
175	4.0 - 9.01% of mass 174	5665	7.29	(7.71) [a]	Pass
176	93.0 - 101.0% of mass 174	72512	93.3	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4712	6.06	(6.50) [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
V3W2981-IC2981	3W75772.D	04/23/22	02:17	01:53	Initial cal 0.04
V3W2981-IC2981	3W75773.D	04/23/22	03:04	02:40	Initial cal 0.1
V3W2981-IC2981	3W75774.D	04/23/22	03:51	03:27	Initial cal 0.2
V3W2981-IC2981	3W75775.D	04/23/22	04:39	04:15	Initial cal 0.5
V3W2981-IC2981	3W75776.D	04/23/22	05:26	05:02	Initial cal 5
V3W2981-ICC2981	3W75777.D	04/23/22	06:12	05:48	Initial cal 10
V3W2981-IC2981	3W75778.D	04/23/22	07:00	06:36	Initial cal 20
V3W2981-IC2981	3W75779.D	04/23/22	07:52	07:28	Initial cal 40
V3W2981-IC2981	3W75780.D	04/23/22	08:46	08:22	Initial cal 50
V3W2981-ICV2981	3W75784.D	04/23/22	11:54	11:30	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3020-BFB	**Injection Date:**	06/30/22
Lab File ID:	3W76740.D	**Injection Time:**	08:13
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	20771	21.2		Pass
75	30.0 - 66.0% of mass 95	52584	53.6		Pass
95	Base peak, 100% relative abundance	98040	100.0		Pass
96	5.0 - 9.0% of mass 95	6533	6.66		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	114477	116.8		Pass
175	4.0 - 9.01% of mass 174	9202	9.39	(8.04) [a]	Pass
176	93.0 - 101.0% of mass 174	112035	114.3	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	7456	7.61	(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
V3W3020-CC2981	3W76741.D	06/30/22	08:59	00:46	Continuing cal 10
V3W3020-BS	3W76742.D	06/30/22	09:39	01:26	Blank Spike
V3W3020-BSD	3W76745.D	06/30/22	12:55	04:42	Blank Spike Duplicate
V3W3020-MB	3W76747.D	06/30/22	14:25	06:12	Method Blank
V3W3020-SCC	3W76748.D	06/30/22	15:13	07:00	Summa Cleaning Certification
V3W3020-SCC	3W76749.D	06/30/22	15:53	07:40	Summa Cleaning Certification
V3W3020-SCC	3W76750.D	06/30/22	16:34	08:21	Summa Cleaning Certification
JD47369-1	3W76751.D	06/30/22	17:20	09:07	(used for QC only; not part of job JD49031)
JD47369-1DUP	3W76752.D	06/30/22	18:07	09:54	Duplicate
ZZZZZZ	3W76755.D	06/30/22	20:19	12:06	(unrelated sample)
ZZZZZZ	3W76756.D	06/30/22	21:05	12:52	(unrelated sample)
ZZZZZZ	3W76757.D	06/30/22	21:52	13:39	(unrelated sample)
ZZZZZZ	3W76758.D	06/30/22	22:38	14:25	(unrelated sample)
ZZZZZZ	3W76759.D	06/30/22	23:23	15:10	(unrelated sample)
ZZZZZZ	3W76760.D	07/01/22	00:08	15:55	(unrelated sample)
ZZZZZZ	3W76761.D	07/01/22	00:53	16:40	(unrelated sample)
ZZZZZZ	3W76762.D	07/01/22	01:37	17:24	(unrelated sample)
ZZZZZZ	3W76763.D	07/01/22	02:22	18:09	(unrelated sample)
ZZZZZZ	3W76764.D	07/01/22	03:01	18:48	(unrelated sample)
ZZZZZZ	3W76765.D	07/01/22	03:40	19:27	(unrelated sample)
ZZZZZZ	3W76766.D	07/01/22	04:21	20:08	(unrelated sample)
ZZZZZZ	3W76767.D	07/01/22	04:59	20:46	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3037-BFB	**Injection Date:**	07/25/22
Lab File ID:	3W77136.D	**Injection Time:**	08:57
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	25043	20.5		Pass
75	30.0 - 66.0% of mass 95	60651	49.7		Pass
95	Base peak, 100% relative abundance	122011	100.0		Pass
96	5.0 - 9.0% of mass 95	8304	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	115725	94.8		Pass
175	4.0 - 9.01% of mass 174	8850	7.25	(7.65) [a]	Pass
176	93.0 - 101.0% of mass 174	112181	91.9	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	7507	6.15	(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
V3W3037-IC3037	3W77138.D	07/25/22	10:25	01:28	Initial cal 0.04
V3W3037-IC3037	3W77139.D	07/25/22	11:04	02:07	Initial cal 0.1
V3W3037-IC3037	3W77140.D	07/25/22	11:43	02:46	Initial cal 0.2
V3W3037-IC3037	3W77142.D	07/25/22	14:31	05:34	Initial cal 5
V3W3037-ICC3037	3W77143.D	07/25/22	15:51	06:54	Initial cal 10
V3W3037-IC3037	3W77144.D	07/25/22	16:32	07:35	Initial cal 20
V3W3037-IC3037	3W77145.D	07/25/22	17:17	08:20	Initial cal 40
V3W3037-IC3037	3W77146.D	07/25/22	18:05	09:08	Initial cal 50

Instrument Performance Check (BFB)

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3037-BFB	**Injection Date:**	07/26/22
Lab File ID:	3W77154.D	**Injection Time:**	08:58
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	21392	21.1		Pass
75	30.0 - 66.0% of mass 95	51243	50.5		Pass
95	Base peak, 100% relative abundance	101501	100.0		Pass
96	5.0 - 9.0% of mass 95	6829	6.73		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	92240	90.9		Pass
175	4.0 - 9.01% of mass 174	7315	7.21	(7.93) [a]	Pass
176	93.0 - 101.0% of mass 174	89637	88.3	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	6146	6.06	(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
V3W3037-IC3037	3W77155.D	07/26/22	09:36	00:38	Initial cal 0.5
V3W3037-ICV3037	3W77157.D	07/26/22	11:25	02:27	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3046-BFB
Lab File ID: 3W77408.D
Instrument ID: GCMS3W
Injection Date: 08/05/22
Injection Time: 07:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	24109	20.0		Pass
75	30.0 - 66.0% of mass 95	63123	52.4		Pass
95	Base peak, 100% relative abundance	120411	100.0		Pass
96	5.0 - 9.0% of mass 95	8124	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	127776	106.1		Pass
175	4.0 - 9.01% of mass 174	9637	8.00	(7.54) [a]	Pass
176	93.0 - 101.0% of mass 174	121965	101.3	(95.5) [a]	Pass
177	5.0 - 9.0% of mass 176	8349	6.93	(6.85) [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
V3W3046-CC3037	3W77409.D	08/05/22	07:46	00:43	Continuing cal 10
V3W3046-BS	3W77410.D	08/05/22	08:36	01:33	Blank Spike
V3W3046-BSD	3W77411.D	08/05/22	09:19	02:16	Blank Spike Duplicate
V3W3046-MB	3W77413.D	08/05/22	10:48	03:45	Method Blank
ZZZZZZ	3W77414.D	08/05/22	11:51	04:48	(unrelated sample)
ZZZZZZ	3W77416.D	08/05/22	13:39	06:36	(unrelated sample)
ZZZZZZ	3W77417.D	08/05/22	14:19	07:16	(unrelated sample)
ZZZZZZ	3W77418.D	08/05/22	14:58	07:55	(unrelated sample)
JD49028-2	3W77419.D	08/05/22	15:58	08:55	(used for QC only; not part of job JD49031)
JD49028-2DUP	3W77420.D	08/05/22	16:43	09:40	Duplicate
JD49031-1	3W77421.D	08/05/22	17:22	10:19	SVE-EFF
ZZZZZZ	3W77422.D	08/05/22	18:02	10:59	(unrelated sample)
ZZZZZZ	3W77423.D	08/05/22	18:43	11:40	(unrelated sample)
ZZZZZZ	3W77424.D	08/05/22	19:28	12:25	(unrelated sample)
ZZZZZZ	3W77425.D	08/05/22	20:08	13:05	(unrelated sample)
ZZZZZZ	3W77426.D	08/05/22	20:48	13:45	(unrelated sample)
ZZZZZZ	3W77427.D	08/05/22	21:27	14:24	(unrelated sample)
ZZZZZZ	3W77428.D	08/05/22	22:09	15:06	(unrelated sample)
ZZZZZZ	3W77429.D	08/05/22	23:00	15:57	(unrelated sample)
ZZZZZZ	3W77430.D	08/05/22	23:39	16:36	(unrelated sample)
ZZZZZZ	3W77431.D	08/06/22	00:24	17:21	(unrelated sample)
ZZZZZZ	3W77432.D	08/06/22	01:08	18:05	(unrelated sample)
JD49294-3	3W77433.D	08/06/22	01:53	18:50	(used for QC only; not part of job JD49031)
ZZZZZZ	3W77434.D	08/06/22	02:38	19:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD49031
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3046-BFB	**Injection Date:**	08/05/22
Lab File ID:	3W77408.D	**Injection Time:**	07:03
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W77436.D	08/06/22	04:03	21:00	(unrelated sample)
ZZZZZZ	3W77437.D	08/06/22	04:43	21:40	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD49031
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
JD49031-1	3W77421.D	101
JD49028-2DUP	3W77420.D	101
V3W3020-SCC	3W76748.D	108
V3W3046-BS	3W77410.D	100
V3W3046-BSD	3W77411.D	99
V3W3046-MB	3W77413.D	103
V3W3020-BS	3W76742.D	114
V3W3020-BSD	3W76745.D	107
V3W3020-MB	3W76747.D	109

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: JD50836



Sampling Date: 08/29/22

Report to:

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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.

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: JD50836

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD50836-1	08/29/22	11:00	TD	08/30/22	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:**	JD50836
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	9/13/2022 10:40:54 A

On 08/30/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD50836 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V6W1101

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD50836-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD50836
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 08/29/22

Lab Sample ID / Analyte	Client Sample ID / Result/ Qual	RL	MDL	Units	Method
JD50836-1	**SVE-EFF**				
Acetone (2-Propanone)	9.5	0.80	0.58	ppbv	TO-15
Benzene	6.0	0.80	0.25	ppbv	TO-15
Dichlorodifluoromethane	0.48 J	0.80	0.13	ppbv	TO-15
cis-1,2-Dichloroethylene	1.4	0.80	0.31	ppbv	TO-15
Ethanol	2.8	2.0	1.6	ppbv	TO-15
Ethyl Acetate	9.3	0.80	0.42	ppbv	TO-15
Isopropyl Alcohol	43.5	0.80	0.56	ppbv	TO-15
Methylene chloride	0.51 J	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	1.2	0.80	0.44	ppbv	TO-15
1,1,1-Trichloroethane	1.4	0.80	0.15	ppbv	TO-15
1,2,4-Trimethylbenzene	0.38 J	0.80	0.35	ppbv	TO-15
Tetrachloroethylene	291	0.80	0.28	ppbv	TO-15
Tetrahydrofuran	1.1	0.80	0.36	ppbv	TO-15
Toluene	1.7	0.80	0.23	ppbv	TO-15
Trichloroethylene	2.0	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane	0.99	0.80	0.14	ppbv	TO-15
m,p-Xylene	0.65 J	0.80	0.56	ppbv	TO-15
Xylenes (total)	0.65 J	0.80	0.31	ppbv	TO-15
Acetone (2-Propanone)	23	1.9	1.4	ug/m3	TO-15
Benzene	19	2.6	0.80	ug/m3	TO-15
Dichlorodifluoromethane	2.4 J	4.0	0.64	ug/m3	TO-15
cis-1,2-Dichloroethylene	5.6	3.2	1.2	ug/m3	TO-15
Ethanol	5.3	3.8	3.0	ug/m3	TO-15
Ethyl Acetate	33	2.9	1.5	ug/m3	TO-15
Isopropyl Alcohol	107	2.0	1.4	ug/m3	TO-15
Methylene chloride	1.8 J	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	7.6	4.4	0.82	ug/m3	TO-15
1,2,4-Trimethylbenzene	1.9 J	3.9	1.7	ug/m3	TO-15
Tetrachloroethylene	1970	5.4	1.9	ug/m3	TO-15
Tetrahydrofuran	3.2	2.4	1.1	ug/m3	TO-15
Toluene	6.4	3.0	0.87	ug/m3	TO-15
Trichloroethylene	11	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane	5.6	4.5	0.79	ug/m3	TO-15
m,p-Xylene	2.8 J	3.5	2.4	ug/m3	TO-15
Xylenes (total)	2.8 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: JD50836-1 **Date Sampled:** 08/29/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A439 **Date Received:** 08/30/22
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	6W25906.D	1	09/07/22 15:41	TCH	n/a	n/a	V6W1101
Run #2	6W25922.D	1	09/08/22 04:07	TCH	n/a	n/a	V6W1101

	Initial Volume
Run #1	100 ml
Run #2	20.0 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)	9.5	0.80	0.58	ppbv		23	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	6.0	0.80	0.25	ppbv		19	2.6	0.80	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	0.44	ppbv		ND	2.8	1.5	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	0.39	ppbv		ND	6.1	3.0	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	0.48	0.80	0.13	ppbv	J	2.4	4.0	0.64	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	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	1.4	0.80	0.31	ppbv		5.6	3.2	1.2	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	0.62	ppbv		ND	4.8	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	4.6	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: JD50836-1 **Date Sampled:** 08/29/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A439 **Date Received:** 08/30/22
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	2.8	2.0	1.6	ppbv		5.3	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	9.3	0.80	0.42	ppbv		33	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	0.37	ppbv		ND	3.3	1.5	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	0.45	ppbv		ND	2.8	1.6	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	43.5	0.80	0.56	ppbv		107	2.0	1.4	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	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	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.4	0.80	0.15	ppbv		7.6	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	0.38	0.80	0.35	ppbv	J	1.9	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	0.38	ppbv		ND	3.7	1.8	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	291 [a]	0.80	0.28	ppbv		1970 [a]	5.4	1.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	1.1	0.80	0.36	ppbv		3.2	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	1.7	0.80	0.23	ppbv		6.4	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	2.0	0.16	0.076	ppbv		11	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.99	0.80	0.14	ppbv		5.6	4.5	0.79	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	0.65	0.80	0.56	ppbv	J	2.8	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)	0.65	0.80	0.31	ppbv	J	2.8	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	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:	JD50836-1	**Date Sampled:**	08/29/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A439	**Date Received:**	08/30/22
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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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

PAGE 1 OF 1

PN

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 7365 8967
Bottle Order Control #: BW-816292-81
SGS Quote #:
SGS Job #: JD50836

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd, Suite 200
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: Delaven - SVE
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #:
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 81 Maximum: 81
Stop: 81 Minimum: 81
Atmoshpheric Pressure (inches of Hg)
Start: 30.07 Maximum: 30.07
Stop: 30.07 Minimum: 30.07
Other weather comment:

Requested Analysis

VTO IS STP

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.
1	SVE - EFF	SV	NR	A439	1L	FC869	8/24/22	1055	28	83	TD	8/24/22	1100	0	83	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

48 hr

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 WJ	8/19/22 13:40	1 Tim Dickey	2 Tim Dickey	8/24/22 1600	2 FedEx
Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
3 FK	8/20/22 10:00	3	4		4
Relinquished by:	Date / Time:	Received By:	Custody Seal #		
5		5			

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

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

5.1 5

JD50836: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD50836 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNOLOG

Date / Time Received: 8/30/2022 10:00:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5894 7365 8967

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 -1 Analysis not marked on COC. Please confirm analysis.

Responded to by: Beth Stopen

Response Date: 8/30/22

-1 analysis is VTO15STD

JD50836: Chain of Custody
Page 3 of 3

Summa Canister and Flow Controller Log

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 08/30/22

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
A439	1	29.4	08/19/22	WC	CP11846	6W25454.D	JD50836-1	08/31/22	ML	3.5			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
FC869	08/19/22	WC	184	.0833	08/31/22	JN	185	0.5	Flow Controller

SGS Bottle Order(s):
BW-081622-81

Prep Date	Room Temp(F)	Bar Pres "Hg
08/19/22	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: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1101-MB	6W25905.D	1	09/07/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1101-MB	6W25905.D	1	09/07/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1101-MB	6W25905.D	1	09/07/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.68	6.2	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-MB	6W25444.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here applies to the following samples: **Method:** TO-15

V6W1083-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-MB	6W25444.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here applies to the following samples: **Method:** TO-15

V6W1083-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-MB	6W25444.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here applies to the following samples: **Method:** TO-15

V6W1083-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1101-BS	6W25901.D	1	09/07/22	TCH	n/a	n/a	V6W1101
V6W1101-BSD	6W25902.D	1	09/07/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.5	95	9.6	96	1	70-130/30
106-99-0	1,3-Butadiene	10	9.7	97	9.8	98	1	70-130/30
71-43-2	Benzene	10	10.5	105	10.6	106	1	70-130/30
75-27-4	Bromodichloromethane	10	11.2	112	11.4	114	2	70-130/30
75-25-2	Bromoform	10	11.7	117	11.8	118	1	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.5	95	1	70-130/30
593-60-2	Bromoethene	10	9.6	96	9.3	93	3	70-130/30
100-44-7	Benzyl Chloride	10	10.5	105	10.8	108	3	70-130/30
75-15-0	Carbon disulfide	10	10	100	9.9	99	1	70-130/30
108-90-7	Chlorobenzene	10	10.4	104	10.5	105	1	70-130/30
75-00-3	Chloroethane	10	8.8	88	9.0	90	2	70-130/30
67-66-3	Chloroform	10	11.0	110	11.1	111	1	70-130/30
74-87-3	Chloromethane	10	9.9	99	10.1	101	2	70-130/30
107-05-1	3-Chloropropene	10	9.7	97	9.6	96	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	10.2	102	1	70-130/30
56-23-5	Carbon tetrachloride	10	10.1	101	10.2	102	1	70-130/30
110-82-7	Cyclohexane	10	10.2	102	10.5	105	3	70-130/30
75-34-3	1,1-Dichloroethane	10	9.3	93	9.4	94	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.4	94	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.2	102	10.4	104	2	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	10.8	108	11.1	111	3	70-130/30
123-91-1	1,4-Dioxane	10	11.6	116	11.6	116	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.2	92	11.8	118	25	70-130/30
124-48-1	Dibromochloromethane	10	10.4	104	10.7	107	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.3	93	9.3	93	0	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	10.7	107	11.0	110	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.0	100	10.3	103	3	70-130/30
95-50-1	o-Dichlorobenzene	10	10.2	102	10.4	104	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.1	101	10.4	104	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.4	104	10.8	108	4	70-130/30
64-17-5	Ethanol	10	9.6	96	9.7	97	1	70-130/30
100-41-4	Ethylbenzene	10	10.5	105	10.6	106	1	70-130/30
141-78-6	Ethyl Acetate	10	11.1	111	11.8	118	6	70-130/30
622-96-8	4-Ethyltoluene	10	10.4	104	10.7	107	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1101-BS	6W25901.D	1	09/07/22	TCH	n/a	n/a	V6W1101
V6W1101-BSD	6W25902.D	1	09/07/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.4	94	9.2	92	2	70-130/30
76-14-2	Freon 114	10	9.6	96	9.7	97	1	70-130/30
142-82-5	Heptane	10	9.7	97	10.1	101	4	70-130/30
87-68-3	Hexachlorobutadiene	10	10.2	102	10.5	105	3	70-130/30
110-54-3	Hexane	10	10.0	100	10.3	103	3	70-130/30
591-78-6	2-Hexanone	10	10.4	104	10.7	107	3	70-130/30
67-63-0	Isopropyl Alcohol	10	9.0	90	9.2	92	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	10.3	103	10.1	101	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.4	104	10.8	108	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.5	85	8.5	85	0	70-130/30
80-62-6	Methylmethacrylate	10	10.8	108	11.2	112	4	70-130/30
115-07-1	Propylene	10	10.1	101	10.1	101	0	70-130/30
100-42-5	Styrene	10	10.6	106	10.7	107	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.5	105	10.6	106	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.4	114	11.5	115	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.8	108	11.1	111	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10	100	10.3	103	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.3	103	10.6	106	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.4	104	10.5	105	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10	100	10.3	103	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	7.8	78	7.9	79	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.1	101	10.3	103	2	70-130/30
109-99-9	Tetrahydrofuran	10	11.6	116	11.7	117	1	70-130/30
108-88-3	Toluene	10	10.0	100	10.2	102	2	70-130/30
79-01-6	Trichloroethylene	10	10.3	103	10.6	106	3	70-130/30
75-69-4	Trichlorofluoromethane	10	8.9	89	8.9	89	0	70-130/30
75-01-4	Vinyl chloride	10	9.1	91	9.3	93	2	70-130/30
108-05-4	Vinyl Acetate	10	10.6	106	10.4	104	2	70-130/30
	m,p-Xylene	20	21.2	106	21.7	109	2	70-130/30
95-47-6	o-Xylene	10	10.4	104	10.7	107	3	70-130/30
1330-20-7	Xylenes (total)	30	31.7	106	32.3	108	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1101-BS	6W25901.D	1	09/07/22	TCH	n/a	n/a	V6W1101
V6W1101-BSD	6W25902.D	1	09/07/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	104%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-BS	6W25440.D	1	08/11/22	TCH	n/a	n/a	V6W1083
V6W1083-BSD	6W25441.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here applies to the following samples: **Method:** TO-15

V6W1083-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.7	87	8.8	88	1	70-130/30
106-99-0	1,3-Butadiene	10	9.2	92	9.3	93	1	70-130/30
71-43-2	Benzene	10	8.5	85	8.6	86	1	70-130/30
75-27-4	Bromodichloromethane	10	9.4	94	9.6	96	2	70-130/30
75-25-2	Bromoform	10	11.5	115	11.5	115	0	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.6	96	1	70-130/30
593-60-2	Bromoethene	10	9.9	99	9.9	99	0	70-130/30
100-44-7	Benzyl Chloride	10	8.1	81	8.5	85	5	70-130/30
75-15-0	Carbon disulfide	10	9.6	96	9.6	96	0	70-130/30
108-90-7	Chlorobenzene	10	9.6	96	9.6	96	0	70-130/30
75-00-3	Chloroethane	10	8.2	82	8.2	82	0	70-130/30
67-66-3	Chloroform	10	8.9	89	9.0	90	1	70-130/30
74-87-3	Chloromethane	10	9.3	93	9.3	93	0	70-130/30
107-05-1	3-Chloropropene	10	9.0	90	9.1	91	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	10.2	102	1	70-130/30
56-23-5	Carbon tetrachloride	10	9.2	92	9.2	92	0	70-130/30
110-82-7	Cyclohexane	10	9.0	90	9.2	92	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	9.2	92	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.4	94	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.3	93	9.4	94	1	70-130/30
107-06-2	1,2-Dichloroethane	10	7.8	78	7.9	79	1	70-130/30
78-87-5	1,2-Dichloropropane	10	9.1	91	9.1	91	0	70-130/30
123-91-1	1,4-Dioxane	10	10.8	108	11.0	110	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.6	116	9.8	98	17	70-130/30
124-48-1	Dibromochloromethane	10	10.2	102	10.2	102	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.5	95	9.5	95	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.8	88	10	100	13	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	8.8	88	9.1	91	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.2	102	10.3	103	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.4	104	10.2	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.4	104	10.3	103	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.4	84	8.6	86	2	70-130/30
64-17-5	Ethanol	10	8.5	85	8.5	85	0	70-130/30
100-41-4	Ethylbenzene	10	9.2	92	9.1	91	1	70-130/30
141-78-6	Ethyl Acetate	10	8.6	86	8.7	87	1	70-130/30
622-96-8	4-Ethyltoluene	10	9.9	99	9.7	97	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-BS	6W25440.D	1	08/11/22	TCH	n/a	n/a	V6W1083
V6W1083-BSD	6W25441.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here applies to the following samples: **Method:** TO-15

V6W1083-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.6	106	10.6	106	0	70-130/30
76-14-2	Freon 114	10	9.7	97	9.8	98	1	70-130/30
142-82-5	Heptane	10	7.3	73	7.4	74	1	70-130/30
87-68-3	Hexachlorobutadiene	10	10.2	102	10.2	102	0	70-130/30
110-54-3	Hexane	10	7.8	78	7.8	78	0	70-130/30
591-78-6	2-Hexanone	10	10.6	106	10.8	108	2	70-130/30
67-63-0	Isopropyl Alcohol	10	8.4	84	8.4	84	0	70-130/30
75-09-2	Methylene chloride	10	9.5	95	9.5	95	0	70-130/30
78-93-3	Methyl ethyl ketone	10	10.5	105	10.4	104	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.3	93	9.5	95	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.8	88	8.9	89	1	70-130/30
80-62-6	Methylmethacrylate	10	9.4	94	9.5	95	1	70-130/30
115-07-1	Propylene	10	7.2	72	7.2	72	0	70-130/30
100-42-5	Styrene	10	10.0	100	9.9	99	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.7	87	8.8	88	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.5	95	9.6	96	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	11.3	113	11.4	114	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	9.8	98	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.7	97	9.6	96	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.2	82	8.3	83	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.0	80	8.0	80	0	70-130/30
127-18-4	Tetrachloroethylene	10	10.3	103	10.4	104	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.3	93	9.3	93	0	70-130/30
108-88-3	Toluene	10	8.8	88	8.9	89	1	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	9.4	94	2	70-130/30
75-69-4	Trichlorofluoromethane	10	9.4	94	9.4	94	0	70-130/30
75-01-4	Vinyl chloride	10	8.6	86	8.8	88	2	70-130/30
108-05-4	Vinyl Acetate	10	10.4	104	10.6	106	2	70-130/30
	m,p-Xylene	20	18.6	93	18.6	93	0	70-130/30
95-47-6	o-Xylene	10	9.2	92	9.1	91	1	70-130/30
1330-20-7	Xylenes (total)	30	27.8	93	27.8	93	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-BS	6W25440.D	1	08/11/22	TCH	n/a	n/a	V6W1083
V6W1083-BSD	6W25441.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here applies to the following samples: **Method:** TO-15

V6W1083-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	96%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50836-1DUP	6W25907.D	1	09/07/22	TCH	n/a	n/a	V6W1101
JD50836-1	6W25906.D	1	09/07/22	TCH	n/a	n/a	V6W1101
JD50836-1	6W25922.D	1	09/08/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Compound	JD50836-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	9.5		9.7		2	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	6.0		6.0		0	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	0.48	J	0.44	J	9	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	1.4		1.3		7	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	2.8		2.8		0	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	9.3		9.3		0	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50836-1DUP	6W25907.D	1	09/07/22	TCH	n/a	n/a	V6W1101
JD50836-1	6W25906.D	1	09/07/22	TCH	n/a	n/a	V6W1101
JD50836-1	6W25922.D	1	09/08/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Compound	JD50836-1 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	43.5		43.3		0	25
75-09-2	Methylene chloride	0.51	J	0.43	J	17	25
78-93-3	Methyl ethyl ketone	1.2		1.2		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	1.4		1.3		7	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	0.38	J	0.38	J	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	291 [a]		350	E	0	25
109-99-9	Tetrahydrofuran	1.1		1.2		9	25
108-88-3	Toluene	1.7		1.7		0	25
79-01-6	Trichloroethylene	2.0		2.0		0	25
75-69-4	Trichlorofluoromethane	0.99		1.0		1	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	0.65	J	0.68	J	5	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	0.65	J	0.68	J	5	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50836-1DUP	6W25907.D	1	09/07/22	TCH	n/a	n/a	V6W1101
JD50836-1	6W25906.D	1	09/07/22	TCH	n/a	n/a	V6W1101
JD50836-1	6W25922.D	1	09/08/22	TCH	n/a	n/a	V6W1101

The QC reported here applies to the following samples: **Method:** TO-15

JD50836-1

CAS No.	Surrogate Recoveries	DUP	JD50836-1	JD50836-1	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	100%	65-128%

(a) Result is from Run #2.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-SCC	6W25452.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here (Summa A406) applies to the following samples: **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD50836-1(A439)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-SCC	6W25452.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here (Summa A406) applies to the following samples: **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD50836-1(A439)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-SCC	6W25452.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here (Summa A406) applies to the following samples: **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD50836-1(A439)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	65-128%

Instrument Performance Check (BFB)

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V6W1077-BFB
Lab File ID: 6W25315.D
Instrument ID: GCMS6W
Injection Date: 08/04/22
Injection Time: 17:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11429	23.1		Pass
75	30.0 - 66.0% of mass 95	25645	51.8		Pass
95	Base peak, 100% relative abundance	49485	100.0		Pass
96	5.0 - 9.0% of mass 95	3335	6.74		Pass
173	Less than 2.0% of mass 174	242	0.49	(0.61) [a]	Pass
174	50.0 - 120.0% of mass 95	39416	79.7		Pass
175	4.0 - 9.01% of mass 174	2844	5.75	(7.22) [a]	Pass
176	93.0 - 101.0% of mass 174	38541	77.9	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2529	5.11	(6.56) [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
V6W1077-IC1077	6W25316.D	08/04/22	17:54	00:45	Initial cal 0.04
V6W1077-IC1077	6W25317.D	08/04/22	18:39	01:30	Initial cal 0.1
V6W1077-IC1077	6W25318.D	08/04/22	19:25	02:16	Initial cal 0.2
V6W1077-IC1077	6W25319.D	08/04/22	20:11	03:02	Initial cal 0.5
V6W1077-IC1077	6W25321.D	08/04/22	21:41	04:32	Initial cal 5
V6W1077-ICC1077	6W25322.D	08/04/22	22:26	05:17	Initial cal 10
V6W1077-IC1077	6W25323.D	08/04/22	23:14	06:05	Initial cal 20
V6W1077-IC1077	6W25324.D	08/05/22	00:05	06:56	Initial cal 40
V6W1077-IC1077	6W25325.D	08/05/22	00:59	07:50	Initial cal 50
V6W1077-ICV1077	6W25328.D	08/05/22	03:17	10:08	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1083-BFB	**Injection Date:**	08/11/22
Lab File ID:	6W25438.D	**Injection Time:**	07:24
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11717	20.6		Pass
75	30.0 - 66.0% of mass 95	28251	49.8		Pass
95	Base peak, 100% relative abundance	56760	100.0		Pass
96	5.0 - 9.0% of mass 95	3771	6.64		Pass
173	Less than 2.0% of mass 174	353	0.62	(0.71) [a]	Pass
174	50.0 - 120.0% of mass 95	49619	87.4		Pass
175	4.0 - 9.01% of mass 174	3741	6.59	(7.54) [a]	Pass
176	93.0 - 101.0% of mass 174	48008	84.6	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	3126	5.51	(6.51) [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
V6W1083-CC1077	6W25439.D	08/11/22	08:20	00:56	Continuing cal 10
V6W1083-BS	6W25440.D	08/11/22	09:21	01:57	Blank Spike
V6W1083-BSD	6W25441.D	08/11/22	10:25	03:01	Blank Spike Duplicate
V6W1083-MB	6W25444.D	08/11/22	12:47	05:23	Method Blank
JD49709-1	6W25445.D	08/11/22	13:33	06:09	(used for QC only; not part of job JD50836)
JD49709-1DUP	6W25446.D	08/11/22	14:19	06:55	Duplicate
ZZZZZZ	6W25447.D	08/11/22	15:24	08:00	(unrelated sample)
V6W1083-SCC	6W25451.D	08/11/22	18:38	11:14	Summa Cleaning Certification
V6W1083-SCC	6W25452.D	08/11/22	19:25	12:01	Summa Cleaning Certification
V6W1083-SCC	6W25453.D	08/11/22	20:12	12:48	Summa Cleaning Certification
V6W1083-SCC	6W25454.D	08/11/22	20:58	13:34	Summa Cleaning Certification
V6W1083-SCC	6W25455.D	08/11/22	21:50	14:26	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD50836
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V6W1101-BFB
Lab File ID: 6W25899.D
Instrument ID: GCMS6W
Injection Date: 09/07/22
Injection Time: 09:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	9978	25.1		Pass
75	30.0 - 66.0% of mass 95	22139	55.7		Pass
95	Base peak, 100% relative abundance	39781	100.0		Pass
96	5.0 - 9.0% of mass 95	2514	6.32		Pass
173	Less than 2.0% of mass 174	316	0.79	(0.99) [a]	Pass
174	50.0 - 120.0% of mass 95	31960	80.3		Pass
175	4.0 - 9.01% of mass 174	2203	5.54	(6.89) [a]	Pass
176	93.0 - 101.0% of mass 174	30819	77.5	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2108	5.30	(6.84) [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
V6W1101-CC1077	6W25900.D	09/07/22	10:42	00:47	Continuing cal 10
V6W1101-BS	6W25901.D	09/07/22	11:36	01:41	Blank Spike
V6W1101-BSD	6W25902.D	09/07/22	12:21	02:26	Blank Spike Duplicate
V6W1101-MB	6W25905.D	09/07/22	14:56	05:01	Method Blank
JD50836-1	6W25906.D	09/07/22	15:41	05:46	SVE-EFF
JD50836-1DUP	6W25907.D	09/07/22	16:28	06:33	Duplicate
ZZZZZZ	6W25908.D	09/07/22	17:20	07:25	(unrelated sample)
ZZZZZZ	6W25910.D	09/07/22	18:58	09:03	(unrelated sample)
ZZZZZZ	6W25911.D	09/07/22	19:44	09:49	(unrelated sample)
ZZZZZZ	6W25912.D	09/07/22	20:29	10:34	(unrelated sample)
ZZZZZZ	6W25915.D	09/07/22	22:47	12:52	(unrelated sample)
JD50836-1	6W25922.D	09/08/22	04:07	18:12	SVE-EFF

Surrogate Recovery Summary

Job Number: JD50836
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
JD50836-1	6W25906.D	103
JD50836-1	6W25922.D	100
JD50836-1DUP	6W25907.D	104
V6W1083-SCC	6W25452.D	93
V6W1101-BS	6W25901.D	101
V6W1101-BSD	6W25902.D	104
V6W1101-MB	6W25905.D	102
V6W1083-BS	6W25440.D	96
V6W1083-BSD	6W25441.D	96
V6W1083-MB	6W25444.D	94

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

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Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60663618

SGS Job Number: JD52915

Sampling Date: 09/27/22



Report to:

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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.

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: JD52915

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD52915-1	09/27/22	13:10	IJR	09/30/22	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:**	JD52915
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	10/14/2022 11:47:38 A

On 09/30/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD52915 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V2W2741

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52968-11DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Methyl ethyl ketone are outside control limits for sample JD52968-11DUP. RPD acceptable due to low DUP and sample concentrations.

Matrix: AIR **Batch ID:** V2W2742

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD53150-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD52915
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 09/27/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD52915-1	**SVE-EFF**					
Acetone (2-Propanone)		15.7	0.80	0.58	ppbv	TO-15
Benzene		13.7	0.80	0.25	ppbv	TO-15
Dichlorodifluoromethane		0.37 J	0.80	0.13	ppbv	TO-15
cis-1,2-Dichloroethylene		1.1	0.80	0.31	ppbv	TO-15
Ethanol		1.8 J	2.0	1.6	ppbv	TO-15
Ethyl Acetate		3.5	0.80	0.42	ppbv	TO-15
Isopropyl Alcohol		149	0.80	0.56	ppbv	TO-15
Methylene chloride		0.53 J	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone		1.9	0.80	0.44	ppbv	TO-15
1,1,1-Trichloroethane		1.0	0.80	0.15	ppbv	TO-15
Tetrachloroethylene		321	0.80	0.28	ppbv	TO-15
Tetrahydrofuran		5.7	0.80	0.36	ppbv	TO-15
Toluene		0.77 J	0.80	0.23	ppbv	TO-15
Trichloroethylene		2.0	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		1.2	0.80	0.14	ppbv	TO-15
m,p-Xylene		0.72 J	0.80	0.56	ppbv	TO-15
o-Xylene		0.45 J	0.80	0.31	ppbv	TO-15
Xylenes (total)		1.2	0.80	0.31	ppbv	TO-15
Acetone (2-Propanone)		37.3	1.9	1.4	ug/m3	TO-15
Benzene		43.8	2.6	0.80	ug/m3	TO-15
Dichlorodifluoromethane		1.8 J	4.0	0.64	ug/m3	TO-15
cis-1,2-Dichloroethylene		4.4	3.2	1.2	ug/m3	TO-15
Ethanol		3.4 J	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		13	2.9	1.5	ug/m3	TO-15
Isopropyl Alcohol		366	2.0	1.4	ug/m3	TO-15
Methylene chloride		1.8 J	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone		5.6	2.4	1.3	ug/m3	TO-15
1,1,1-Trichloroethane		5.5	4.4	0.82	ug/m3	TO-15
Tetrachloroethylene		2180	5.4	1.9	ug/m3	TO-15
Tetrahydrofuran		17	2.4	1.1	ug/m3	TO-15
Toluene		2.9 J	3.0	0.87	ug/m3	TO-15
Trichloroethylene		11	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		6.7	4.5	0.79	ug/m3	TO-15
m,p-Xylene		3.1 J	3.5	2.4	ug/m3	TO-15
o-Xylene		2.0 J	3.5	1.3	ug/m3	TO-15
Xylenes (total)		5.2	3.5	1.3	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD52915-1 **Date Sampled:** 09/27/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1564 **Date Received:** 09/30/22
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	2W61812.D	1	10/06/22 19:16	TCH	n/a	n/a	V2W2741
Run #2	2W61833.D	1	10/07/22 16:30	TCH	n/a	n/a	V2W2742

	Initial Volume
Run #1	100 ml
Run #2	20.0 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)	15.7	0.80	0.58	ppbv		37.3	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	13.7	0.80	0.25	ppbv		43.8	2.6	0.80	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	0.44	ppbv		ND	2.8	1.5	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	0.39	ppbv		ND	6.1	3.0	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	0.37	0.80	0.13	ppbv	J	1.8	4.0	0.64	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	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	1.1	0.80	0.31	ppbv		4.4	3.2	1.2	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	0.62	ppbv		ND	4.8	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	4.6	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: JD52915-1 **Date Sampled:** 09/27/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1564 **Date Received:** 09/30/22
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	1.8	2.0	1.6	ppbv	J	3.4	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	3.5	0.80	0.42	ppbv		13	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	0.37	ppbv		ND	3.3	1.5	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	0.45	ppbv		ND	2.8	1.6	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	149	0.80	0.56	ppbv		366	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	0.53	0.80	0.22	ppbv	J	1.8	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.9	0.80	0.44	ppbv		5.6	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	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.0	0.80	0.15	ppbv		5.5	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	0.38	ppbv		ND	3.7	1.8	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	321 [a]	0.80	0.28	ppbv		2180 [a]	5.4	1.9	ug/m3
109-99-9	72.11	Tetrahydrofuran	5.7	0.80	0.36	ppbv		17	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.77	0.80	0.23	ppbv	J	2.9	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	2.0	0.16	0.076	ppbv		11	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.2	0.80	0.14	ppbv		6.7	4.5	0.79	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	0.72	0.80	0.56	ppbv	J	3.1	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.45	0.80	0.31	ppbv	J	2.0	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.80	0.31	ppbv		5.2	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	100%	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:	JD52915-1	**Date Sampled:**	09/27/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1564	**Date Received:**	09/30/22
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

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates 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

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 7366 9107
Bottle Order Control # BW-0111922-421
SGS Quote #
SGS Job # JD52915

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd, Suite 200
City: Raleigh State: NC Zip: 27607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100
Sampler(s) Name(s): Jon Ros

Project Information

Project Name: Delavan - SVE
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #
Client Purchase Order #

Weather Parameters

Temperature (Fahrenheit)
Start: 76 Maximum: 76
Stop: 76 Minimum: 76
Atmospheric Pressure (inches of Hg)
Start: 29.98 Maximum: 29.98
Stop: 29.98 Minimum: 29.98
Other weather comment:

Requested Analysis

VTO-15 STP

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.	VTO-15 STP
1	SVE-EFF	SV	NR	A1564	1L	FC1003	9/27/22	1305	-28	76	JSR	9/27/22	1310	-4	76	JSR	✓

Turnaround Time (Business days)

- ✓ 5 Business Days
- 10 Business Days
- 3 Business Days
- 2 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: 4A DM
Laboratory Comment:
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		9/27/22	1	2	9/29/22 1300	2 Fed Ex
3	RV	9/30/22 10:00	10:00 3	4		4
5			5	Custody Seal #		

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: JD52915 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 9/30/2022 10:00:00 AM **Delivery Method:** **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

JD52915: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 09/30/22

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
A1564	1.4	29.4	09/20/22	ML	CP11860	2W61174.D	JD52915-1	10/03/22	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
FC1003	09/20/22	ML	185	.0833	10/04/22	DG	188	1.6	Flow Controller

SGS Bottle Order(s):
BW-091922-421

Prep Date	Room Temp(F)	Bar Pres "Hg
09/20/22	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: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2741-MB	2W61798.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2741-MB	2W61798.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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	98%	65-128%

Method Blank Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2742-MB	2W61825.D	1	10/07/22	TCH	n/a	n/a	V2W2742

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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	98%	65-128%

Method Blank Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-MB	2W61144.D	1	08/30/22	WC	n/a	n/a	V2W2714

The QC reported here applies to the following samples: **Method:** TO-15

V2W2714-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-MB	2W61144.D	1	08/30/22	WC	n/a	n/a	V2W2714

The QC reported here applies to the following samples: **Method:** TO-15

V2W2714-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-MB	2W61144.D	1	08/30/22	WC	n/a	n/a	V2W2714

The QC reported here applies to the following samples: **Method:** TO-15

V2W2714-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.79	12	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2741-BS	2W61795.D	1	10/06/22	TCH	n/a	n/a	V2W2741
V2W2741-BSD	2W61796.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.1	81	8.2	82	1	70-130/30
106-99-0	1,3-Butadiene	10	8.8	88	9.0	90	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	10.8	108	2	70-130/30
75-25-2	Bromoform	10	11.5	115	11.4	114	1	70-130/30
74-83-9	Bromomethane	10	9.7	97	9.8	98	1	70-130/30
593-60-2	Bromoethene	10	10.6	106	10.8	108	2	70-130/30
100-44-7	Benzyl Chloride	10	9.0	90	9.0	90	0	70-130/30
75-15-0	Carbon disulfide	10	12.6	126	12.4	124	2	70-130/30
108-90-7	Chlorobenzene	10	10.2	102	10.3	103	1	70-130/30
75-00-3	Chloroethane	10	10.0	100	10	100	0	70-130/30
67-66-3	Chloroform	10	10.0	100	10.1	101	1	70-130/30
74-87-3	Chloromethane	10	8.3	83	8.4	84	1	70-130/30
107-05-1	3-Chloropropene	10	11.5	115	11.2	112	3	70-130/30
95-49-8	2-Chlorotoluene	10	10.3	103	10.4	104	1	70-130/30
56-23-5	Carbon tetrachloride	10	10.0	100	10.0	100	0	70-130/30
110-82-7	Cyclohexane	10	10.5	105	10.3	103	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10	100	10.0	100	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	11.6	116	11.8	118	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.6	106	10.6	106	0	70-130/30
107-06-2	1,2-Dichloroethane	10	9.6	96	9.6	96	0	70-130/30
78-87-5	1,2-Dichloropropane	10	10.3	103	10.2	102	1	70-130/30
123-91-1	1,4-Dioxane	10	11.7	117	11.8	118	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.2	92	9.3	93	1	70-130/30
124-48-1	Dibromochloromethane	10	11.3	113	11.2	112	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	10.2	102	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.9	99	10.1	101	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.7	107	10.7	107	0	70-130/30
541-73-1	m-Dichlorobenzene	10	10.3	103	10.3	103	0	70-130/30
95-50-1	o-Dichlorobenzene	10	10.3	103	10.3	103	0	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	10.3	103	10.1	101	2	70-130/30
64-17-5	Ethanol	10	7.2	72	7.3	73	1	70-130/30
100-41-4	Ethylbenzene	10	10.9	109	11.0	110	1	70-130/30
141-78-6	Ethyl Acetate	10	9.9	99	9.8	98	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: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2741-BS	2W61795.D	1	10/06/22	TCH	n/a	n/a	V2W2741
V2W2741-BSD	2W61796.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.7	107	10.6	106	1	70-130/30
76-14-2	Freon 114	10	10.0	100	10.0	100	0	70-130/30
142-82-5	Heptane	10	8.8	88	8.9	89	1	70-130/30
87-68-3	Hexachlorobutadiene	10	10.7	107	10.9	109	2	70-130/30
110-54-3	Hexane	10	9.3	93	9.4	94	1	70-130/30
591-78-6	2-Hexanone	10	10.7	107	10.8	108	1	70-130/30
67-63-0	Isopropyl Alcohol	10	9.1	91	9.3	93	2	70-130/30
75-09-2	Methylene chloride	10	10.1	101	10.1	101	0	70-130/30
78-93-3	Methyl ethyl ketone	10	10.9	109	11.1	111	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.5	115	11.6	116	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.2	92	9.4	94	2	70-130/30
80-62-6	Methylmethacrylate	10	11.3	113	11.5	115	2	70-130/30
115-07-1	Propylene	10	8.0	80	8.1	81	1	70-130/30
100-42-5	Styrene	10	11.8	118	11.8	118	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	9.7	97	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.1	111	11.1	111	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.6	106	10.6	106	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.5	105	10.6	106	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.1	111	11.0	110	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.2	112	11.1	111	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.7	97	9.6	96	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.2	92	9.5	95	3	70-130/30
109-99-9	Tetrahydrofuran	10	11.0	110	10.9	109	1	70-130/30
108-88-3	Toluene	10	10.7	107	10.7	107	0	70-130/30
79-01-6	Trichloroethylene	10	10.9	109	10.9	109	0	70-130/30
75-69-4	Trichlorofluoromethane	10	10.9	109	11.1	111	2	70-130/30
75-01-4	Vinyl chloride	10	9.8	98	9.9	99	1	70-130/30
108-05-4	Vinyl Acetate	10	10.9	109	10.9	109	0	70-130/30
	m,p-Xylene	20	22.0	110	22.1	111	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	33.0	110	33.1	110	0	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2742-BS	2W61822.D	1	10/07/22	TCH	n/a	n/a	V2W2742
V2W2742-BSD	2W61823.D	1	10/07/22	TCH	n/a	n/a	V2W2742

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	10	9.6	96	9.8	98	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	102%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-BS	2W61141.D	1	08/30/22	WC	n/a	n/a	V2W2714
V2W2714-BSD	2W61142.D	1	08/30/22	WC	n/a	n/a	V2W2714

The QC reported here applies to the following samples: **Method:** TO-15

V2W2714-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.9	89	8.5	85	5	70-130/30
106-99-0	1,3-Butadiene	10	10.2	102	9.7	97	5	70-130/30
71-43-2	Benzene	10	9.5	95	9.3	93	2	70-130/30
75-27-4	Bromodichloromethane	10	10.0	100	10.0	100	0	70-130/30
75-25-2	Bromoform	10	10.2	102	10.0	100	2	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.5	95	3	70-130/30
593-60-2	Bromoethene	10	10.2	102	9.9	99	3	70-130/30
100-44-7	Benzyl Chloride	10	7.9	79	7.7	77	3	70-130/30
75-15-0	Carbon disulfide	10	10.3	103	9.9	99	4	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	9.7	97	1	70-130/30
75-00-3	Chloroethane	10	10.5	105	10.3	103	2	70-130/30
67-66-3	Chloroform	10	9.7	97	9.5	95	2	70-130/30
74-87-3	Chloromethane	10	9.4	94	8.9	89	5	70-130/30
107-05-1	3-Chloropropene	10	9.8	98	9.4	94	4	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	10	100	1	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.5	95	2	70-130/30
110-82-7	Cyclohexane	10	9.6	96	9.5	95	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.4	104	10.0	100	4	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.4	104	10.0	100	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.0	100	10.0	100	0	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	10.2	102	10.2	102	0	70-130/30
123-91-1	1,4-Dioxane	10	9.4	94	9.7	97	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.9	99	9.5	95	4	70-130/30
124-48-1	Dibromochloromethane	10	10.7	107	10.6	106	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.8	98	9.4	94	4	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.8	98	9.3	93	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.7	97	9.7	97	0	70-130/30
541-73-1	m-Dichlorobenzene	10	9.8	98	9.5	95	3	70-130/30
95-50-1	o-Dichlorobenzene	10	9.5	95	9.3	93	2	70-130/30
106-46-7	p-Dichlorobenzene	10	9.8	98	9.4	94	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.4	94	9.4	94	0	70-130/30
64-17-5	Ethanol	10	7.6	76	7.5	75	1	70-130/30
100-41-4	Ethylbenzene	10	10	100	9.8	98	2	70-130/30
141-78-6	Ethyl Acetate	10	10.5	105	10.1	101	4	70-130/30
622-96-8	4-Ethyltoluene	10	10.4	104	10.2	102	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-BS	2W61141.D	1	08/30/22	WC	n/a	n/a	V2W2714
V2W2714-BSD	2W61142.D	1	08/30/22	WC	n/a	n/a	V2W2714

The QC reported here applies to the following samples: **Method:** TO-15

V2W2714-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.8	98	9.3	93	5	70-130/30
76-14-2	Freon 114	10	9.9	99	9.5	95	4	70-130/30
142-82-5	Heptane	10	9.1	91	9.2	92	1	70-130/30
87-68-3	Hexachlorobutadiene	10	8.6	86	8.3	83	4	70-130/30
110-54-3	Hexane	10	10.2	102	10	100	2	70-130/30
591-78-6	2-Hexanone	10	9.6	96	9.6	96	0	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	8.7	87	8.3	83	5	70-130/30
78-93-3	Methyl ethyl ketone	10	10.1	101	9.8	98	3	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	9.1	91	8.8	88	3	70-130/30
80-62-6	Methylmethacrylate	10	10.2	102	10.1	101	1	70-130/30
115-07-1	Propylene	10	8.6	86	8.4	84	2	70-130/30
100-42-5	Styrene	10	10.6	106	10.4	104	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	9.4	94	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.0	100	9.8	98	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	9.7	97	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.6	96	9.1	91	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.3	103	9.9	99	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.4	104	10.1	101	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.9	99	9.9	99	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.2	102	9.9	99	3	70-130/30
127-18-4	Tetrachloroethylene	10	9.2	92	9.2	92	0	70-130/30
109-99-9	Tetrahydrofuran	10	10.1	101	10	100	1	70-130/30
108-88-3	Toluene	10	9.7	97	9.7	97	0	70-130/30
79-01-6	Trichloroethylene	10	10.2	102	10.2	102	0	70-130/30
75-69-4	Trichlorofluoromethane	10	10.3	103	9.8	98	5	70-130/30
75-01-4	Vinyl chloride	10	10.5	105	10.3	103	2	70-130/30
108-05-4	Vinyl Acetate	10	9.7	97	9.7	97	0	70-130/30
	m,p-Xylene	20	20.1	101	19.9	100	1	70-130/30
95-47-6	o-Xylene	10	10.0	100	9.9	99	1	70-130/30
1330-20-7	Xylenes (total)	30	30.2	101	29.8	99	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-BS	2W61141.D	1	08/30/22	WC	n/a	n/a	V2W2714
V2W2714-BSD	2W61142.D	1	08/30/22	WC	n/a	n/a	V2W2714

The QC reported here applies to the following samples: **Method:** TO-15

V2W2714-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	99%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD52968-11DUP	2W61801.D	1	10/06/22	TCH	n/a	n/a	V2W2741
JD52968-11	2W61800.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	JD52968-11 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	4.0		4.1		2	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.17	J	0.18	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	0.15	J	0.15	J	0	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	0.40		0.38		5	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	1.5		1.6		6	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	0.40		0.43		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	2.4		2.6		8	25
100-41-4	Ethylbenzene	0.20		0.19	J	5	25
141-78-6	Ethyl Acetate	7.6		7.9		4	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD52968-11DUP	2W61801.D	1	10/06/22	TCH	n/a	n/a	V2W2741
JD52968-11	2W61800.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	JD52968-11 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	0.13		0.14	J	7	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	0.32		0.30		6	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	0.59		0.54		9	25
75-09-2	Methylene chloride	0.38		0.39		3	25
78-93-3	Methyl ethyl ketone	0.24		ND		200* [a]	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	0.67		0.66		2	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	272	E	283	E	4	25
75-65-0	Tertiary Butyl Alcohol	0.20		0.21		5	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.52		0.55		6	25
79-01-6	Trichloroethylene	0.11		0.14		24	25
75-69-4	Trichlorofluoromethane	0.30		0.30		0	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	0.30		0.31		3	25
95-47-6	o-Xylene	0.14	J	0.14	J	0	25
1330-20-7	Xylenes (total)	0.44		0.45		2	25

CAS No.	Surrogate Recoveries	DUP	JD52968-11	Limits
460-00-4	4-Bromofluorobenzene	102%	102%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD52968-11DUP	2W61801.D	1	10/06/22	TCH	n/a	n/a	V2W2741
JD52968-11	2W61800.D	1	10/06/22	TCH	n/a	n/a	V2W2741

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD53150-1DUP	2W61827.D	1.6	10/07/22	TCH	n/a	n/a	V2W2742
JD53150-1	2W61826.D	1.6	10/07/22	TCH	n/a	n/a	V2W2742

The QC reported here applies to the following samples: **Method:** TO-15

JD52915-1

CAS No.	Compound	JD53150-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
127-18-4	Tetrachloroethylene	0.22		0.22		0	25

CAS No.	Surrogate Recoveries	DUP	JD53150-1	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-SCC	2W61172.D	1	08/31/22	WC	n/a	n/a	V2W2714

The QC reported here (Summa A1564) applies to the following samples: **Method:** TO-15

Batch CP11860 cleaned 08/23/22: JD52915-1(A1564)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-SCC	2W61172.D	1	08/31/22	WC	n/a	n/a	V2W2714

The QC reported here (Summa A1564) applies to the following samples: **Method:** TO-15

Batch CP11860 cleaned 08/23/22: JD52915-1(A1564)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2714-SCC	2W61172.D	1	08/31/22	WC	n/a	n/a	V2W2714

The QC reported here (Summa A1564) applies to the following samples: **Method:** TO-15

Batch CP11860 cleaned 08/23/22: JD52915-1(A1564)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Instrument Performance Check (BFB)

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2709-BFB	**Injection Date:**	08/19/22
Lab File ID:	2W61009.D	**Injection Time:**	10:50
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14581	21.8		Pass
75	30.0 - 66.0% of mass 95	32835	49.2		Pass
95	Base peak, 100% relative abundance	66739	100.0		Pass
96	5.0 - 9.0% of mass 95	4420	6.62		Pass
173	Less than 2.0% of mass 174	243	0.36	(0.44) [a]	Pass
174	50.0 - 120.0% of mass 95	55160	82.7		Pass
175	4.0 - 9.01% of mass 174	3990	5.98	(7.23) [a]	Pass
176	93.0 - 101.0% of mass 174	52933	79.3	(96.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3276	4.91	(6.19) [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
V2W2709-IC2709	2W61010.D	08/19/22	11:22	00:32	Initial cal 0.04
V2W2709-IC2709	2W61011.D	08/19/22	11:55	01:05	Initial cal 0.1
V2W2709-IC2709	2W61012.D	08/19/22	12:27	01:37	Initial cal 0.2
V2W2709-IC2709	2W61013.D	08/19/22	12:59	02:09	Initial cal 0.5
V2W2709-IC2709	2W61015.D	08/19/22	14:02	03:12	Initial cal 5
V2W2709-ICC2709	2W61016.D	08/19/22	14:34	03:44	Initial cal 10
V2W2709-IC2709	2W61017.D	08/19/22	15:08	04:18	Initial cal 20
V2W2709-IC2709	2W61018.D	08/19/22	15:45	04:55	Initial cal 40
V2W2709-IC2709	2W61019.D	08/19/22	16:25	05:35	Initial cal 50
V2W2709-ICV2709	2W61022.D	08/19/22	18:00	07:10	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2714-BFB
Lab File ID: 2W61139.D
Instrument ID: GCMS2W
Injection Date: 08/30/22
Injection Time: 08:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	16722	22.9		Pass
75	30.0 - 66.0% of mass 95	36933	50.6		Pass
95	Base peak, 100% relative abundance	73021	100.0		Pass
96	5.0 - 9.0% of mass 95	4398	6.02		Pass
173	Less than 2.0% of mass 174	245	0.34	(0.41) [a]	Pass
174	50.0 - 120.0% of mass 95	59720	81.8		Pass
175	4.0 - 9.01% of mass 174	4107	5.62	(6.88) [a]	Pass
176	93.0 - 101.0% of mass 174	59349	81.3	(99.4) [a]	Pass
177	5.0 - 9.0% of mass 176	3464	4.74	(5.84) [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
V2W2714-CC2709	2W61140.D	08/30/22	09:21	00:32	Continuing cal 10
V2W2714-BS	2W61141.D	08/30/22	10:20	01:31	Blank Spike
V2W2714-BSD	2W61142.D	08/30/22	10:52	02:03	Blank Spike Duplicate
V2W2714-MB	2W61144.D	08/30/22	12:13	03:24	Method Blank
ZZZZZZ	2W61145.D	08/30/22	12:44	03:55	(unrelated sample)
ZZZZZZ	2W61146.D	08/30/22	13:24	04:35	(unrelated sample)
ZZZZZZ	2W61147.D	08/30/22	14:03	05:14	(unrelated sample)
ZZZZZZ	2W61148.D	08/30/22	14:42	05:53	(unrelated sample)
ZZZZZZ	2W61152.D	08/30/22	16:59	08:10	(unrelated sample)
ZZZZZZ	2W61153.D	08/30/22	17:39	08:50	(unrelated sample)
ZZZZZZ	2W61154.D	08/30/22	18:19	09:30	(unrelated sample)
JD50792-4	2W61155.D	08/30/22	18:58	10:09	(used for QC only; not part of job JD52915)
JD50792-4DUP	2W61156.D	08/30/22	19:38	10:49	Duplicate
ZZZZZZ	2W61157.D	08/30/22	20:19	11:30	(unrelated sample)
ZZZZZZ	2W61158.D	08/30/22	21:00	12:11	(unrelated sample)
ZZZZZZ	2W61159.D	08/30/22	21:43	12:54	(unrelated sample)
ZZZZZZ	2W61162.D	08/30/22	23:29	14:40	(unrelated sample)
ZZZZZZ	2W61164.D	08/31/22	00:49	16:00	(unrelated sample)
ZZZZZZ	2W61165.D	08/31/22	01:27	16:38	(unrelated sample)
ZZZZZZ	2W61166.D	08/31/22	02:00	17:11	(unrelated sample)
ZZZZZZ	2W61167.D	08/31/22	02:32	17:43	(unrelated sample)
ZZZZZZ	2W61168.D	08/31/22	03:04	18:15	(unrelated sample)
ZZZZZZ	2W61169.D	08/31/22	03:36	18:47	(unrelated sample)
ZZZZZZ	2W61170.D	08/31/22	04:11	19:22	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2714-BFB	**Injection Date:**	08/30/22
Lab File ID:	2W61139.D	**Injection Time:**	08:49
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2W61171.D	08/31/22	04:44	19:55	(unrelated sample)
V2W2714-SCC	2W61172.D	08/31/22	05:16	20:27	Summa Cleaning Certification
V2W2714-SCC	2W61173.D	08/31/22	05:48	20:59	Summa Cleaning Certification
V2W2714-SCC	2W61174.D	08/31/22	06:20	21:31	Summa Cleaning Certification
V2W2714-SCC	2W61176.D	08/31/22	07:34	22:45	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2741-BFB
Lab File ID: 2W61793.D
Instrument ID: GCMS2W
Injection Date: 10/06/22
Injection Time: 07:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12406	19.7		Pass
75	30.0 - 66.0% of mass 95	32731	51.9		Pass
95	Base peak, 100% relative abundance	63125	100.0		Pass
96	5.0 - 9.0% of mass 95	4095	6.49		Pass
173	Less than 2.0% of mass 174	246	0.39	(0.48) [a]	Pass
174	50.0 - 120.0% of mass 95	51224	81.1		Pass
175	4.0 - 9.01% of mass 174	3249	5.15	(6.34) [a]	Pass
176	93.0 - 101.0% of mass 174	50488	80.0	(98.6) [a]	Pass
177	5.0 - 9.0% of mass 176	3259	5.16	(6.45) [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
V2W2741-CC2709	2W61794.D	10/06/22	08:02	00:33	Continuing cal 10
V2W2741-BS	2W61795.D	10/06/22	08:45	01:16	Blank Spike
V2W2741-BSD	2W61796.D	10/06/22	09:18	01:49	Blank Spike Duplicate
V2W2741-MB	2W61798.D	10/06/22	10:38	03:09	Method Blank
JD52968-11	2W61800.D	10/06/22	12:24	04:55	(used for QC only; not part of job JD52915)
JD52968-11DUP	2W61801.D	10/06/22	13:02	05:33	Duplicate
ZZZZZZ	2W61802.D	10/06/22	13:44	06:15	(unrelated sample)
ZZZZZZ	2W61803.D	10/06/22	14:16	06:47	(unrelated sample)
ZZZZZZ	2W61804.D	10/06/22	14:48	07:19	(unrelated sample)
ZZZZZZ	2W61805.D	10/06/22	15:32	08:03	(unrelated sample)
ZZZZZZ	2W61806.D	10/06/22	16:03	08:34	(unrelated sample)
ZZZZZZ	2W61807.D	10/06/22	16:35	09:06	(unrelated sample)
ZZZZZZ	2W61810.D	10/06/22	18:11	10:42	(unrelated sample)
ZZZZZZ	2W61811.D	10/06/22	18:42	11:13	(unrelated sample)
JD52915-1	2W61812.D	10/06/22	19:16	11:47	SVE-EFF

Instrument Performance Check (BFB)

Job Number: JD52915
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2742-BFB	**Injection Date:**	10/07/22
Lab File ID:	2W61820.D	**Injection Time:**	07:42
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	12962	19.9		Pass
75	30.0 - 66.0% of mass 95	32397	49.9		Pass
95	Base peak, 100% relative abundance	64987	100.0		Pass
96	5.0 - 9.0% of mass 95	4324	6.65		Pass
173	Less than 2.0% of mass 174	263	0.40	(0.49) [a]	Pass
174	50.0 - 120.0% of mass 95	53152	81.8		Pass
175	4.0 - 9.01% of mass 174	3655	5.62	(6.88) [a]	Pass
176	93.0 - 101.0% of mass 174	50373	77.5	(94.8) [a]	Pass
177	5.0 - 9.0% of mass 176	3376	5.19	(6.70) [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
V2W2742-CC2709	2W61821.D	10/07/22	08:14	00:32	Continuing cal 10
V2W2742-BS	2W61822.D	10/07/22	09:01	01:19	Blank Spike
V2W2742-BSD	2W61823.D	10/07/22	09:34	01:52	Blank Spike Duplicate
V2W2742-MB	2W61825.D	10/07/22	11:07	03:25	Method Blank
JD53150-1	2W61826.D	10/07/22	12:42	05:00	(used for QC only; not part of job JD52915)
JD53150-1DUP	2W61827.D	10/07/22	13:16	05:34	Duplicate
ZZZZZZ	2W61828.D	10/07/22	13:48	06:06	(unrelated sample)
ZZZZZZ	2W61829.D	10/07/22	14:20	06:38	(unrelated sample)
ZZZZZZ	2W61830.D	10/07/22	14:54	07:12	(unrelated sample)
ZZZZZZ	2W61831.D	10/07/22	15:25	07:43	(unrelated sample)
JD52915-1	2W61833.D	10/07/22	16:30	08:48	SVE-EFF
V2W2742-SCC	2W61839.D	10/07/22	20:04	12:22	Summa Cleaning Certification
V2W2742-SCC	2W61840.D	10/07/22	20:36	12:54	Summa Cleaning Certification
V2W2742-SCC	2W61841.D	10/07/22	21:07	13:25	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD52915
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
JD52915-1	2W61812.D	102
JD52915-1	2W61833.D	100
JD52968-11DUP	2W61801.D	102
JD53150-1DUP	2W61827.D	101
V2W2714-SCC	2W61172.D	94
V2W2741-BS	2W61795.D	103
V2W2741-BSD	2W61796.D	103
V2W2741-MB	2W61798.D	98
V2W2742-BS	2W61822.D	103
V2W2742-BSD	2W61823.D	102
V2W2742-MB	2W61825.D	98
V2W2714-BS	2W61141.D	101
V2W2714-BSD	2W61142.D	99
V2W2714-MB	2W61144.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

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Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60681452

SGS Job Number: JD54659

Sampling Date: 10/27/22



Report to:

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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.

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: JD54659

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60681452

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD54659-1	10/27/22	14:30	IR	10/31/22	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**	JD54659
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	11/14/2022 1:03:28 P

On 10/31/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD54659 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V3W3059

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD55097-6DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- V3W3059-BS for 1,2,4-Trichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3059-BS for Benzyl Chloride: High percent recovery and no associated positive reported in the QC batch.
- JD54659-1 for 1,2,4-Trichlorobenzene: This compound in blank spike is outside in house QC limits bias high.
- JD54659-1 for Benzyl Chloride: This compound in blank spike is outside in house QC limits bias high.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD54659
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 10/27/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD54659-1	**SVE-EFF**					
Acetone (2-Propanone)		21.9	8.0	5.8	ppbv	TO-15
Benzene		92.3	8.0	2.5	ppbv	TO-15
Ethylbenzene		5.3 J	8.0	2.4	ppbv	TO-15
Heptane		5.8 J	8.0	3.7	ppbv	TO-15
Hexane		11.3	8.0	4.5	ppbv	TO-15
Propylene		919	20	5.7	ppbv	TO-15
Toluene		47.0	8.0	2.3	ppbv	TO-15
m,p-Xylene		9.9	8.0	5.6	ppbv	TO-15
Xylenes (total)		9.9	8.0	3.1	ppbv	TO-15
Acetone (2-Propanone)		52.0	19	14	ug/m3	TO-15
Benzene		295	26	8.0	ug/m3	TO-15
Ethylbenzene		23 J	35	10	ug/m3	TO-15
Heptane		24 J	33	15	ug/m3	TO-15
Hexane		39.8	28	16	ug/m3	TO-15
Propylene		1580	34	9.8	ug/m3	TO-15
Toluene		177	30	8.7	ug/m3	TO-15
m,p-Xylene		43	35	24	ug/m3	TO-15
Xylenes (total)		43	35	13	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD54659-1 **Date Sampled:** 10/27/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1106 **Date Received:** 10/31/22
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	3W77673.D	1	11/09/22 21:07	TCH	n/a	n/a	V3W3059
Run #2							

	Initial Volume
Run #1	10.0 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)	21.9	8.0	5.8	ppbv		52.0	19	14	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	8.0	3.4	ppbv		ND	18	7.5	ug/m3
71-43-2	78.11	Benzene	92.3	8.0	2.5	ppbv		295	26	8.0	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	8.0	1.2	ppbv		ND	54	8.0	ug/m3
75-25-2	252.8	Bromoform	ND	8.0	2.8	ppbv		ND	83	29	ug/m3
74-83-9	94.94	Bromomethane	ND	8.0	2.8	ppbv		ND	31	11	ug/m3
593-60-2	106.9	Bromoethene	ND	8.0	2.4	ppbv		ND	35	10	ug/m3
100-44-7	126	Benzyl Chloride [a]	ND	8.0	5.0	ppbv		ND	41	26	ug/m3
75-15-0	76.14	Carbon disulfide	ND	8.0	1.8	ppbv		ND	25	5.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	8.0	3.0	ppbv		ND	37	14	ug/m3
75-00-3	64.52	Chloroethane	ND	8.0	2.7	ppbv		ND	21	7.1	ug/m3
67-66-3	119.4	Chloroform	ND	8.0	1.5	ppbv		ND	39	7.3	ug/m3
74-87-3	50.49	Chloromethane	ND	8.0	3.6	ppbv		ND	17	7.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	8.0	3.3	ppbv		ND	25	10	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	8.0	2.9	ppbv		ND	41	15	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	8.0	1.6	ppbv		ND	50	10	ug/m3
110-82-7	84.16	Cyclohexane	ND	8.0	4.4	ppbv		ND	28	15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	8.0	2.3	ppbv		ND	32	9.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	8.0	2.4	ppbv		ND	32	9.5	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	8.0	3.9	ppbv		ND	61	30	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	8.0	2.8	ppbv		ND	32	11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	8.0	2.5	ppbv		ND	37	12	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	8.0	4.7	ppbv		ND	29	17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	8.0	1.3	ppbv		ND	40	6.4	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	8.0	2.1	ppbv		ND	68	18	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	8.0	2.8	ppbv		ND	32	11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	8.0	3.1	ppbv		ND	32	12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	8.0	2.5	ppbv		ND	36	11	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	8.0	1.6	ppbv		ND	48	9.6	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	8.0	6.2	ppbv		ND	48	37	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	8.0	7.6	ppbv		ND	48	46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	8.0	4.0	ppbv		ND	36	18	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: JD54659-1 **Date Sampled:** 10/27/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A1106 **Date Received:** 10/31/22
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	ND	20	16	ppbv		ND	38	30	ug/m3
100-41-4	106.2	Ethylbenzene	5.3	8.0	2.4	ppbv	J	23	35	10	ug/m3
141-78-6	88	Ethyl Acetate	ND	8.0	4.2	ppbv		ND	29	15	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	8.0	3.8	ppbv		ND	39	19	ug/m3
76-13-1	187.4	Freon 113	ND	8.0	1.2	ppbv		ND	61	9.2	ug/m3
76-14-2	170.9	Freon 114	ND	8.0	2.0	ppbv		ND	56	14	ug/m3
142-82-5	100.2	Heptane	5.8	8.0	3.7	ppbv	J	24	33	15	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	8.0	2.5	ppbv		ND	85	27	ug/m3
110-54-3	86.18	Hexane	11.3	8.0	4.5	ppbv		39.8	28	16	ug/m3
591-78-6	100	2-Hexanone	ND	8.0	5.8	ppbv		ND	33	24	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	8.0	5.6	ppbv		ND	20	14	ug/m3
75-09-2	84.94	Methylene chloride	ND	8.0	2.2	ppbv		ND	28	7.6	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	8.0	4.4	ppbv		ND	24	13	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	8.0	2.9	ppbv		ND	33	12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	8.0	3.2	ppbv		ND	29	12	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	8.0	2.8	ppbv		ND	33	11	ug/m3
115-07-1	42	Propylene	919	20	5.7	ppbv		1580	34	9.8	ug/m3
100-42-5	104.1	Styrene	ND	8.0	4.7	ppbv		ND	34	20	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	8.0	1.5	ppbv		ND	44	8.2	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	8.0	1.9	ppbv		ND	55	13	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	8.0	1.5	ppbv		ND	44	8.2	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [a]	ND	8.0	4.8	ppbv		ND	59	36	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	8.0	3.5	ppbv		ND	39	17	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	8.0	3.2	ppbv		ND	39	16	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	8.0	3.8	ppbv		ND	37	18	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	8.0	3.7	ppbv		ND	24	11	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	1.6	0.56	ppbv		ND	11	3.8	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	8.0	3.6	ppbv		ND	24	11	ug/m3
108-88-3	92.14	Toluene	47.0	8.0	2.3	ppbv		177	30	8.7	ug/m3
79-01-6	131.4	Trichloroethylene	ND	1.6	0.76	ppbv		ND	8.6	4.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	8.0	1.4	ppbv		ND	45	7.9	ug/m3
75-01-4	62.5	Vinyl chloride	ND	8.0	2.8	ppbv		ND	20	7.2	ug/m3
108-05-4	86	Vinyl Acetate	ND	8.0	4.5	ppbv		ND	28	16	ug/m3
	106.2	m,p-Xylene	9.9	8.0	5.6	ppbv		43	35	24	ug/m3
95-47-6	106.2	o-Xylene	ND	8.0	3.1	ppbv		ND	35	13	ug/m3
1330-20-7	106.2	Xylenes (total)	9.9	8.0	3.1	ppbv		43	35	13	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		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:	JD54659-1	**Date Sampled:**	10/27/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1106	**Date Received:**	10/31/22
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

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 # 8894 7368 1211
SGS Quote #
Bottle Order Control # DAY-102122.138
SGS Job # JD54659

Client / Reporting Information	Project Information	Weather Parameters	Requested Analysis
Company Name: AECOM	Project Name: Delavan - SVE	Temperature (Fahrenheit) Start: 73 Maximum: 73 Stop: 73 Minimum: 73	
Address: 5438 Wade Park Blvd, Suite 200	Street: 4334 Main Hwy		
City: Raleigh State: NC Zip: 27607	City: Bamberg State: SC	Atmospheric Pressure (inches of Hg) Start: 30.05 Maximum: 30.05 Stop: 30.05 Minimum: 30.05	
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com	Project #: 60681452		
Phone #: (919) 461-1100	Client Purchase Order #	Other weather comment:	
Sampler(s) Name(s): Ian Ros			

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.	Requested Analysis: TO-15 STP.
1	SVE-EFF	SV	NR	A1537	1L	FC714	10/27/22	1425	-28	73	IR	10/27/22	1430	-5	73	IR	✓

Turnaround Time (Business days)
- 15 Business Days
- 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Std.

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: 1	Date / Time: 10/27/22 1040	Received By: 1	Relinquished By: 2	Date / Time: 10/28/22 1000	Received By: 2 Fed Ex
Relinquished by: 3 Fedex	Date / Time: 10/31 9:15	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

Initial Assessment 4B
Label Verification

SGS Sample Receipt Summary

Job Number: JD54659 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 10/31/2022 9:15:00 AM **Delivery Method:** **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

JD54659: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 10/31/22

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
A1106	1	29.4	10/25/22	ML	CP11891	2W61914.D	JD54659-1	11/01/22	DG	2			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
FC868	10/25/22	ML	56	.25	11/01/22	ML	57	1.8	Flow Controller

SGS Bottle Order(s):
TM-102422-174

Prep Date	Room Temp(F)	Bar Pres "Hg
10/25/22	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3059-MB	3W77670.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3059-MB	3W77670.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3059-MB	3W77670.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.22	210	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-MB	2W61896.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here applies to the following samples: **Method:** TO-15

V2W2746-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-MB	2W61896.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here applies to the following samples: **Method:** TO-15

V2W2746-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-MB	2W61896.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here applies to the following samples: **Method:** TO-15

V2W2746-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.81	29	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3059-BS	3W77667.D	1	11/09/22	TCH	n/a	n/a	V3W3059
V3W3059-BSD	3W77668.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

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	9.8	98	6	70-130/30
106-99-0	1,3-Butadiene	10	10	100	9.0	90	11	70-130/30
71-43-2	Benzene	10	10.7	107	10.3	103	4	70-130/30
75-27-4	Bromodichloromethane	10	10.9	109	10.5	105	4	70-130/30
75-25-2	Bromoform	10	10.9	109	10.7	107	2	70-130/30
74-83-9	Bromomethane	10	8.4	84	8.1	81	4	70-130/30
593-60-2	Bromoethene	10	9.4	94	9.7	97	3	70-130/30
100-44-7	Benzyl Chloride	10	15.0	150* [a]	14.5	145* [a]	3	70-130/30
75-15-0	Carbon disulfide	10	10.7	107	10.2	102	5	70-130/30
108-90-7	Chlorobenzene	10	10.8	108	10.5	105	3	70-130/30
75-00-3	Chloroethane	10	9.4	94	9.2	92	2	70-130/30
67-66-3	Chloroform	10	10.8	108	10.3	103	5	70-130/30
74-87-3	Chloromethane	10	11.4	114	10.7	107	6	70-130/30
107-05-1	3-Chloropropene	10	10.8	108	10.3	103	5	70-130/30
95-49-8	2-Chlorotoluene	10	11.0	110	10.7	107	3	70-130/30
56-23-5	Carbon tetrachloride	10	10.8	108	10.3	103	5	70-130/30
110-82-7	Cyclohexane	10	9.9	99	9.5	95	4	70-130/30
75-34-3	1,1-Dichloroethane	10	10.2	102	9.7	97	5	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.8	108	10.3	103	5	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.3	113	11.1	111	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.7	107	10.1	101	6	70-130/30
78-87-5	1,2-Dichloropropane	10	10.2	102	9.8	98	4	70-130/30
123-91-1	1,4-Dioxane	10	12.0	120	11.6	116	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.5	115	10.8	108	6	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	11.1	111	10.6	106	5	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	11.2	112	10.5	105	6	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.2	112	10.7	107	5	70-130/30
541-73-1	m-Dichlorobenzene	10	12.3	123	11.9	119	3	70-130/30
95-50-1	o-Dichlorobenzene	10	12.2	122	11.8	118	3	70-130/30
106-46-7	p-Dichlorobenzene	10	12.6	126	12.3	123	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.6	116	11.1	111	4	70-130/30
64-17-5	Ethanol	10	9.5	95	9.0	90	5	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.2	102	2	70-130/30
141-78-6	Ethyl Acetate	10	11.1	111	10.9	109	2	70-130/30
622-96-8	4-Ethyltoluene	10	11.8	118	11.5	115	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3059-BS	3W77667.D	1	11/09/22	TCH	n/a	n/a	V3W3059
V3W3059-BSD	3W77668.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.6	106	10.2	102	4	70-130/30
76-14-2	Freon 114	10	11.0	110	10.3	103	7	70-130/30
142-82-5	Heptane	10	10.8	108	10.4	104	4	70-130/30
87-68-3	Hexachlorobutadiene	10	12.1	121	11.7	117	3	70-130/30
110-54-3	Hexane	10	10.8	108	10.4	104	4	70-130/30
591-78-6	2-Hexanone	10	12.3	123	11.9	119	3	70-130/30
67-63-0	Isopropyl Alcohol	10	11.4	114	10.8	108	5	70-130/30
75-09-2	Methylene chloride	10	9.9	99	9.4	94	5	70-130/30
78-93-3	Methyl ethyl ketone	10	11.4	114	10.9	109	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.4	114	11.0	110	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.5	105	10.1	101	4	70-130/30
80-62-6	Methylmethacrylate	10	11.4	114	11.1	111	3	70-130/30
115-07-1	Propylene	10	11.0	110	10.3	103	7	70-130/30
100-42-5	Styrene	10	11.6	116	11.3	113	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	11.0	110	10.5	105	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.2	112	10.8	108	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	11.0	110	10.4	104	6	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	14.5	145* [a]	14.0	140* [a]	4	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.1	121	11.8	118	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.7	117	11.3	113	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	11.0	110	10.6	106	4	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.7	107	10.2	102	5	70-130/30
127-18-4	Tetrachloroethylene	10	10.3	103	10.2	102	1	70-130/30
109-99-9	Tetrahydrofuran	10	11.2	112	10.6	106	6	70-130/30
108-88-3	Toluene	10	10.9	109	10.5	105	4	70-130/30
79-01-6	Trichloroethylene	10	11.0	110	10.5	105	5	70-130/30
75-69-4	Trichlorofluoromethane	10	10.8	108	10.2	102	6	70-130/30
75-01-4	Vinyl chloride	10	10.3	103	9.7	97	6	70-130/30
108-05-4	Vinyl Acetate	10	12.0	120	11.5	115	4	70-130/30
	m,p-Xylene	20	20.7	104	20.3	102	2	70-130/30
95-47-6	o-Xylene	10	10.6	106	10.3	103	3	70-130/30
1330-20-7	Xylenes (total)	30	31.3	104	30.7	102	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3059-BS	3W77667.D	1	11/09/22	TCH	n/a	n/a	V3W3059
V3W3059-BSD	3W77668.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-BS	2W61893.D	1	10/12/22	TCH	n/a	n/a	V2W2746
V2W2746-BSD	2W61894.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here applies to the following samples: **Method:** TO-15

V2W2746-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.8	78	8.0	80	3	70-130/30
106-99-0	1,3-Butadiene	10	9.0	90	9.0	90	0	70-130/30
71-43-2	Benzene	10	9.9	99	9.9	99	0	70-130/30
75-27-4	Bromodichloromethane	10	11.0	110	10.9	109	1	70-130/30
75-25-2	Bromoform	10	12.7	127	12.6	126	1	70-130/30
74-83-9	Bromomethane	10	9.8	98	9.9	99	1	70-130/30
593-60-2	Bromoethene	10	10.5	105	10.7	107	2	70-130/30
100-44-7	Benzyl Chloride	10	8.5	85	8.7	87	2	70-130/30
75-15-0	Carbon disulfide	10	12.3	123	12.3	123	0	70-130/30
108-90-7	Chlorobenzene	10	10.9	109	10.8	108	1	70-130/30
75-00-3	Chloroethane	10	9.9	99	9.8	98	1	70-130/30
67-66-3	Chloroform	10	10.1	101	10.1	101	0	70-130/30
74-87-3	Chloromethane	10	8.5	85	8.4	84	1	70-130/30
107-05-1	3-Chloropropene	10	11.3	113	11.2	112	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.9	109	11.1	111	2	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.7	97	0	70-130/30
110-82-7	Cyclohexane	10	10.5	105	10.4	104	1	70-130/30
75-34-3	1,1-Dichloroethane	10	9.7	97	9.8	98	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	12.1	121	12.2	122	1	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	9.3	93	9.3	93	0	70-130/30
78-87-5	1,2-Dichloropropane	10	10.2	102	10.0	100	2	70-130/30
123-91-1	1,4-Dioxane	10	11.0	110	11.0	110	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.4	94	9.2	92	2	70-130/30
124-48-1	Dibromochloromethane	10	11.3	113	11.2	112	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.5	105	10.4	104	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.2	102	10.2	102	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.3	103	10.4	104	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.3	113	11.3	113	0	70-130/30
95-50-1	o-Dichlorobenzene	10	11.4	114	11.1	111	3	70-130/30
106-46-7	p-Dichlorobenzene	10	11.2	112	11.1	111	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	9.8	98	0	70-130/30
64-17-5	Ethanol	10	7.2	72	7.4	74	3	70-130/30
100-41-4	Ethylbenzene	10	11.2	112	11.0	110	2	70-130/30
141-78-6	Ethyl Acetate	10	9.9	99	9.9	99	0	70-130/30
622-96-8	4-Ethyltoluene	10	11.4	114	11.3	113	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-BS	2W61893.D	1	10/12/22	TCH	n/a	n/a	V2W2746
V2W2746-BSD	2W61894.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here applies to the following samples: **Method:** TO-15

V2W2746-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.5	115	11.5	115	0	70-130/30
76-14-2	Freon 114	10	9.9	99	10	100	1	70-130/30
142-82-5	Heptane	10	8.7	87	8.7	87	0	70-130/30
87-68-3	Hexachlorobutadiene	10	11.9	119	11.8	118	1	70-130/30
110-54-3	Hexane	10	9.2	92	9.3	93	1	70-130/30
591-78-6	2-Hexanone	10	10.5	105	10.3	103	2	70-130/30
67-63-0	Isopropyl Alcohol	10	8.9	89	9.2	92	3	70-130/30
75-09-2	Methylene chloride	10	10.5	105	10.5	105	0	70-130/30
78-93-3	Methyl ethyl ketone	10	10.6	106	10.7	107	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.3	113	11.2	112	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.0	90	9.1	91	1	70-130/30
80-62-6	Methylmethacrylate	10	11.0	110	11.0	110	0	70-130/30
115-07-1	Propylene	10	8.1	81	8.1	81	0	70-130/30
100-42-5	Styrene	10	12.0	120	11.9	119	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.7	97	9.6	96	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.7	117	11.6	116	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.6	106	10.6	106	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.5	115	11.5	115	0	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	11.3	113	11.3	113	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.6	96	9.5	95	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.1	91	9.2	92	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.6	106	10.6	106	0	70-130/30
109-99-9	Tetrahydrofuran	10	10.5	105	10.6	106	1	70-130/30
108-88-3	Toluene	10	10.4	104	10.3	103	1	70-130/30
79-01-6	Trichloroethylene	10	11.0	110	10.9	109	1	70-130/30
75-69-4	Trichlorofluoromethane	10	10.7	107	10.8	108	1	70-130/30
75-01-4	Vinyl chloride	10	9.8	98	9.9	99	1	70-130/30
108-05-4	Vinyl Acetate	10	10.6	106	10.6	106	0	70-130/30
	m,p-Xylene	20	22.5	113	22.3	112	1	70-130/30
95-47-6	o-Xylene	10	11.3	113	11.2	112	1	70-130/30
1330-20-7	Xylenes (total)	30	33.8	113	33.5	112	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-BS	2W61893.D	1	10/12/22	TCH	n/a	n/a	V2W2746
V2W2746-BSD	2W61894.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here applies to the following samples: **Method:** TO-15

V2W2746-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	107%	106%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD55097-6DUP	3W77672.D	1	11/09/22	TCH	n/a	n/a	V3W3059
JD55097-6	3W77671.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

CAS No.	Compound	JD55097-6 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	25.2		24.9		1	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	6.8		6.2		9	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	0.74	J	0.70	J	6	25
74-87-3	Chloromethane	0.59	J	0.62	J	5	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	0.40	J	0.41	J	2	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	48.9		46.8		4	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD55097-6DUP	3W77672.D	1	11/09/22	TCH	n/a	n/a	V3W3059
JD55097-6	3W77671.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

CAS No.	Compound	JD55097-6 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	0.62	J	0.69	J	11	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	3.6		3.5		3	25
75-09-2	Methylene chloride	2.0		2.0		0	25
78-93-3	Methyl ethyl ketone	1.9		1.9		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	1.4	J	1.3	J	7	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	0.43	J	0.38	J	12	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	1.0		1.0		0	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.61	J	0.55	J	10	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.46	J	0.43	J	7	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: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD55097-6DUP	3W77672.D	1	11/09/22	TCH	n/a	n/a	V3W3059
JD55097-6	3W77671.D	1	11/09/22	TCH	n/a	n/a	V3W3059

The QC reported here applies to the following samples: **Method:** TO-15

JD54659-1

CAS No.	Surrogate Recoveries	DUP	JD55097-6	Limits
460-00-4	4-Bromofluorobenzene	103%	102%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-SCC	2W61914.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here (Summa A437) applies to the following samples: **Method:** TO-15

Batch CP11891 cleaned 10/10/22: JD54659-1(A1106)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-SCC	2W61914.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here (Summa A437) applies to the following samples: **Method:** TO-15

Batch CP11891 cleaned 10/10/22: JD54659-1(A1106)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2746-SCC	2W61914.D	1	10/12/22	TCH	n/a	n/a	V2W2746

The QC reported here (Summa A437) applies to the following samples: **Method:** TO-15

Batch CP11891 cleaned 10/10/22: JD54659-1(A1106)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	65-128%

Instrument Performance Check (BFB)

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2709-BFB
Lab File ID: 2W61009.D
Instrument ID: GCMS2W
Injection Date: 08/19/22
Injection Time: 10:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14581	21.8		Pass
75	30.0 - 66.0% of mass 95	32835	49.2		Pass
95	Base peak, 100% relative abundance	66739	100.0		Pass
96	5.0 - 9.0% of mass 95	4420	6.62		Pass
173	Less than 2.0% of mass 174	243	0.36	(0.44) [a]	Pass
174	50.0 - 120.0% of mass 95	55160	82.7		Pass
175	4.0 - 9.01% of mass 174	3990	5.98	(7.23) [a]	Pass
176	93.0 - 101.0% of mass 174	52933	79.3	(96.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3276	4.91	(6.19) [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
V2W2709-IC2709	2W61010.D	08/19/22	11:22	00:32	Initial cal 0.04
V2W2709-IC2709	2W61011.D	08/19/22	11:55	01:05	Initial cal 0.1
V2W2709-IC2709	2W61012.D	08/19/22	12:27	01:37	Initial cal 0.2
V2W2709-IC2709	2W61013.D	08/19/22	12:59	02:09	Initial cal 0.5
V2W2709-IC2709	2W61015.D	08/19/22	14:02	03:12	Initial cal 5
V2W2709-ICC2709	2W61016.D	08/19/22	14:34	03:44	Initial cal 10
V2W2709-IC2709	2W61017.D	08/19/22	15:08	04:18	Initial cal 20
V2W2709-IC2709	2W61018.D	08/19/22	15:45	04:55	Initial cal 40
V2W2709-IC2709	2W61019.D	08/19/22	16:25	05:35	Initial cal 50
V2W2709-ICV2709	2W61022.D	08/19/22	18:00	07:10	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2746-BFB
Lab File ID: 2W61891.D
Instrument ID: GCMS2W
Injection Date: 10/12/22
Injection Time: 07:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10875	19.3		Pass
75	30.0 - 66.0% of mass 95	27624	48.9		Pass
95	Base peak, 100% relative abundance	56488	100.0		Pass
96	5.0 - 9.0% of mass 95	3541	6.27		Pass
173	Less than 2.0% of mass 174	218	0.39	(0.44) [a]	Pass
174	50.0 - 120.0% of mass 95	49472	87.6		Pass
175	4.0 - 9.01% of mass 174	3321	5.88	(6.71) [a]	Pass
176	93.0 - 101.0% of mass 174	47307	83.7	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	3098	5.48	(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
V2W2746-CC2709	2W61892.D	10/12/22	07:50	00:33	Continuing cal 10
V2W2746-BS	2W61893.D	10/12/22	08:36	01:19	Blank Spike
V2W2746-BSD	2W61894.D	10/12/22	09:09	01:52	Blank Spike Duplicate
V2W2746-MB	2W61896.D	10/12/22	10:33	03:16	Method Blank
ZZZZZZ	2W61897.D	10/12/22	12:19	05:02	(unrelated sample)
ZZZZZZ	2W61898.D	10/12/22	12:52	05:35	(unrelated sample)
ZZZZZZ	2W61899.D	10/12/22	13:24	06:07	(unrelated sample)
ZZZZZZ	2W61900.D	10/12/22	14:30	07:13	(unrelated sample)
JD53313-1	2W61901.D	10/12/22	15:03	07:46	(used for QC only; not part of job JD54659)
JD53313-1DUP	2W61902.D	10/12/22	15:36	08:19	Duplicate
ZZZZZZ	2W61903.D	10/12/22	16:08	08:51	(unrelated sample)
ZZZZZZ	2W61904.D	10/12/22	16:41	09:24	(unrelated sample)
ZZZZZZ	2W61905.D	10/12/22	17:14	09:57	(unrelated sample)
ZZZZZZ	2W61906.D	10/12/22	17:46	10:29	(unrelated sample)
ZZZZZZ	2W61907.D	10/12/22	18:19	11:02	(unrelated sample)
ZZZZZZ	2W61908.D	10/12/22	18:52	11:35	(unrelated sample)
ZZZZZZ	2W61909.D	10/12/22	19:25	12:08	(unrelated sample)
ZZZZZZ	2W61910.D	10/12/22	19:58	12:41	(unrelated sample)
V2W2746-SCC	2W61911.D	10/12/22	20:30	13:13	Summa Cleaning Certification
V2W2746-SCC	2W61912.D	10/12/22	21:02	13:45	Summa Cleaning Certification
V2W2746-SCC	2W61914.D	10/12/22	22:07	14:50	Summa Cleaning Certification
V2W2746-SCC	2W61915.D	10/12/22	22:40	15:23	Summa Cleaning Certification
V2W2746-SCC	2W61916.D	10/12/22	23:12	15:55	Summa Cleaning Certification
V2W2746-SCC	2W61917.D	10/12/22	23:45	16:28	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2746-BFB	**Injection Date:**	10/12/22
Lab File ID:	2W61891.D	**Injection Time:**	07:17
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2746-SCC	2W61918.D	10/13/22	00:17	17:00	Summa Cleaning Certification
ZZZZZZ	2W61919.D	10/13/22	00:49	17:32	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3055-BFB	**Injection Date:**	11/03/22
Lab File ID:	3W77566.D	**Injection Time:**	02:37
Instrument ID:	GCMS3W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	29547	21.0		Pass
75	30.0 - 66.0% of mass 95	73547	52.3		Pass
95	Base peak, 100% relative abundance	140547	100.0		Pass
96	5.0 - 9.0% of mass 95	9241	6.58		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	124965	88.9		Pass
175	4.0 - 9.01% of mass 174	10222	7.27	(8.18) [a]	Pass
176	93.0 - 101.0% of mass 174	121805	86.7	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	8004	5.69	(6.57) [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
V3W3055-IC3055	3W77567.D	11/03/22	03:16	00:39	Initial cal 0.04
V3W3055-IC3055	3W77568.D	11/03/22	03:54	01:17	Initial cal 0.1
V3W3055-IC3055	3W77569.D	11/03/22	04:34	01:57	Initial cal 0.2
V3W3055-IC3055	3W77571.D	11/03/22	05:54	03:17	Initial cal 0.5
V3W3055-IC3055	3W77572.D	11/03/22	06:33	03:56	Initial cal 5
V3W3055-ICC3055	3W77573.D	11/03/22	07:12	04:35	Initial cal 10
V3W3055-IC3055	3W77574.D	11/03/22	07:54	05:17	Initial cal 20
V3W3055-IC3055	3W77575.D	11/03/22	08:38	06:01	Initial cal 40
V3W3055-IC3055	3W77576.D	11/03/22	09:25	06:48	Initial cal 50

Instrument Performance Check (BFB)

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3055-BFB
Lab File ID: 3W77583.D
Instrument ID: GCMS3W
Injection Date: 11/06/22
Injection Time: 15:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	44243	25.1		Pass
75	30.0 - 66.0% of mass 95	96336	54.7		Pass
95	Base peak, 100% relative abundance	176213	100.0		Pass
96	5.0 - 9.0% of mass 95	11902	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	163328	92.7		Pass
175	4.0 - 9.01% of mass 174	13564	7.70	(8.30) [a]	Pass
176	93.0 - 101.0% of mass 174	156501	88.8	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	10917	6.20	(6.98) [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
V3W3055-ICV3055	3W77585.D	11/06/22	16:46	01:42	Initial cal verification 10
V3W3056-CC3055	3W77586.D	11/06/22	21:11	06:07	Continuing cal 10
V3W3056-BS	3W77587.D	11/06/22	21:50	06:46	Blank Spike
V3W3056-BSD	3W77588.D	11/06/22	22:32	07:28	Blank Spike Duplicate
V3W3056-MB	3W77590.D	11/06/22	23:56	08:52	Method Blank
V3W3056-SCC	3W77591.D	11/07/22	00:41	09:37	Summa Cleaning Certification
V3W3056-SCC	3W77592.D	11/07/22	01:26	10:22	Summa Cleaning Certification
V3W3056-SCC	3W77594.D	11/07/22	02:56	11:52	Summa Cleaning Certification
V3W3056-SCC	3W77595.D	11/07/22	03:41	12:37	Summa Cleaning Certification
V3W3056-SCC	3W77596.D	11/07/22	04:26	13:22	Summa Cleaning Certification
V3W3056-SCC	3W77597.D	11/07/22	05:10	14:06	Summa Cleaning Certification
V3W3056-SCC	3W77598.D	11/07/22	05:56	14:52	Summa Cleaning Certification
V3W3056-SCC	3W77599.D	11/07/22	06:40	15:36	Summa Cleaning Certification
V3W3056-SCC	3W77600.D	11/07/22	07:26	16:22	Summa Cleaning Certification
V3W3056-SCC	3W77601.D	11/07/22	08:10	17:06	Summa Cleaning Certification
V3W3056-SCC	3W77602.D	11/07/22	08:55	17:51	Summa Cleaning Certification
V3W3056-SCC	3W77605.D	11/07/22	11:10	20:06	Summa Cleaning Certification
V3W3056-SCC	3W77606.D	11/07/22	11:55	20:51	Summa Cleaning Certification
V3W3056-SCC	3W77607.D	11/07/22	12:40	21:36	Summa Cleaning Certification
V3W3056-SCC	3W77608.D	11/07/22	13:24	22:20	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD54659
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3059-BFB
Lab File ID: 3W77663.D
Instrument ID: GCMS3W
Injection Date: 11/09/22
Injection Time: 11:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	27037	21.5		Pass
75	30.0 - 66.0% of mass 95	67261	53.5		Pass
95	Base peak, 100% relative abundance	125669	100.0		Pass
96	5.0 - 9.0% of mass 95	8315	6.62		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	110051	87.6		Pass
175	4.0 - 9.01% of mass 174	8938	7.11	(8.12) [a]	Pass
176	93.0 - 101.0% of mass 174	106816	85.0	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	7026	5.59	(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
V3W3059-CC3055	3W77664.D	11/09/22	12:32	00:39	Continuing cal 10
V3W3059-BS	3W77667.D	11/09/22	15:16	03:23	Blank Spike
V3W3059-BSD	3W77668.D	11/09/22	15:58	04:05	Blank Spike Duplicate
V3W3059-MB	3W77670.D	11/09/22	17:34	05:41	Method Blank
JD55097-6	3W77671.D	11/09/22	19:48	07:55	(used for QC only; not part of job JD54659)
JD55097-6DUP	3W77672.D	11/09/22	20:28	08:35	Duplicate
JD54659-1	3W77673.D	11/09/22	21:07	09:14	SVE-EFF
ZZZZZZ	3W77674.D	11/09/22	21:47	09:54	(unrelated sample)
ZZZZZZ	3W77675.D	11/09/22	22:26	10:33	(unrelated sample)
ZZZZZZ	3W77676.D	11/09/22	23:06	11:13	(unrelated sample)
ZZZZZZ	3W77677.D	11/09/22	23:46	11:53	(unrelated sample)
ZZZZZZ	3W77678.D	11/10/22	00:26	12:33	(unrelated sample)
ZZZZZZ	3W77681.D	11/10/22	02:28	14:35	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD54659
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
JD54659-1	3W77673.D	101
JD55097-6DUP	3W77672.D	103
V2W2746-SCC	2W61914.D	101
V3W3059-BS	3W77667.D	102
V3W3059-BSD	3W77668.D	103
V3W3059-MB	3W77670.D	102
V2W2746-BS	2W61893.D	107
V2W2746-BSD	2W61894.D	106
V2W2746-MB	2W61896.D	101

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

60681452

SGS Job Number: JD56197

Sampling Date: 11/21/22



Report to:

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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.

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: JD56197

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60681452

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD56197-1	11/21/22	14:35	IR	11/23/22	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:**	JD56197
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	12/8/2022 9:37:49 AM

On 11/23/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD56197 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V3W3079

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD56188-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike / Blank Spike Duplicate Recovery(s) for 1,2,4-Trichlorobenzene, Benzyl Chloride, Hexachlorobutadiene are outside control limits. High percent recovery and no associated positive reported in the QC batch.
- RPD(s) for Duplicate for Hexane, Methylene chloride are outside control limits for sample JD56188-2DUP. Probable cause due to sample homogeneity.
- JD56197-1 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.
- JD56197-1 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.
- JD56197-1 for Hexachlorobutadiene: Associated CCV outside of control limtis high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD56197
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 11/21/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD56197-1	**SVE-EFF**					
Acetone (2-Propanone)		5.9	2.0	1.5	ppbv	TO-15
Benzene		6.7	2.0	0.62	ppbv	TO-15
Ethanol		5.6	5.0	3.9	ppbv	TO-15
Ethyl Acetate		4.3	2.0	1.0	ppbv	TO-15
Isopropyl Alcohol		20.3	2.0	1.4	ppbv	TO-15
Methylene chloride		2.2	2.0	0.56	ppbv	TO-15
Methyl ethyl ketone		6.0	2.0	1.1	ppbv	TO-15
1,1,1-Trichloroethane		1.4 J	2.0	0.37	ppbv	TO-15
Tetrachloroethylene		266	0.40	0.14	ppbv	TO-15
Tetrahydrofuran		35.3	2.0	0.90	ppbv	TO-15
Trichloroethylene		2.6	0.40	0.19	ppbv	TO-15
Trichlorofluoromethane		0.97 J	2.0	0.36	ppbv	TO-15
Acetone (2-Propanone)		14	4.8	3.6	ug/m3	TO-15
Benzene		21	6.4	2.0	ug/m3	TO-15
Ethanol		11	9.4	7.3	ug/m3	TO-15
Ethyl Acetate		15	7.2	3.6	ug/m3	TO-15
Isopropyl Alcohol		49.9	4.9	3.4	ug/m3	TO-15
Methylene chloride		7.6	6.9	1.9	ug/m3	TO-15
Methyl ethyl ketone		18	5.9	3.2	ug/m3	TO-15
1,1,1-Trichloroethane		7.6 J	11	2.0	ug/m3	TO-15
Tetrachloroethylene		1800	2.7	0.95	ug/m3	TO-15
Tetrahydrofuran		104	5.9	2.7	ug/m3	TO-15
Trichloroethylene		14	2.1	1.0	ug/m3	TO-15
Trichlorofluoromethane		5.5 J	11	2.0	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD56197-1 **Date Sampled:** 11/21/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A724 **Date Received:** 11/23/22
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	3W78193.D	1	12/04/22 07:45	TCH	n/a	n/a	V3W3079
Run #2							

	Initial Volume
Run #1	40.0 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)	5.9	2.0	1.5	ppbv		14	4.8	3.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	2.0	0.84	ppbv		ND	4.4	1.9	ug/m3
71-43-2	78.11	Benzene	6.7	2.0	0.62	ppbv		21	6.4	2.0	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	2.0	0.30	ppbv		ND	13	2.0	ug/m3
75-25-2	252.8	Bromoform	ND	2.0	0.71	ppbv		ND	21	7.3	ug/m3
74-83-9	94.94	Bromomethane	ND	2.0	0.69	ppbv		ND	7.8	2.7	ug/m3
593-60-2	106.9	Bromoethene	ND	2.0	0.61	ppbv		ND	8.7	2.7	ug/m3
100-44-7	126	Benzyl Chloride [a]	ND	2.0	1.3	ppbv		ND	10	6.7	ug/m3
75-15-0	76.14	Carbon disulfide	ND	2.0	0.45	ppbv		ND	6.2	1.4	ug/m3
108-90-7	112.6	Chlorobenzene	ND	2.0	0.74	ppbv		ND	9.2	3.4	ug/m3
75-00-3	64.52	Chloroethane	ND	2.0	0.68	ppbv		ND	5.3	1.8	ug/m3
67-66-3	119.4	Chloroform	ND	2.0	0.37	ppbv		ND	9.8	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	2.0	0.90	ppbv		ND	4.1	1.9	ug/m3
107-05-1	76.53	3-Chloropropene	ND	2.0	0.83	ppbv		ND	6.3	2.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	2.0	0.72	ppbv		ND	10	3.7	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	2.0	0.40	ppbv		ND	13	2.5	ug/m3
110-82-7	84.16	Cyclohexane	ND	2.0	1.1	ppbv		ND	6.9	3.8	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	2.0	0.57	ppbv		ND	8.1	2.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	2.0	0.59	ppbv		ND	7.9	2.3	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	2.0	0.97	ppbv		ND	15	7.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	2.0	0.70	ppbv		ND	8.1	2.8	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	2.0	0.62	ppbv		ND	9.2	2.9	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	2.0	1.2	ppbv		ND	7.2	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	2.0	0.32	ppbv		ND	9.9	1.6	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	2.0	0.52	ppbv		ND	17	4.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	2.0	0.69	ppbv		ND	7.9	2.7	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	2.0	0.77	ppbv		ND	7.9	3.1	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	2.0	0.62	ppbv		ND	9.1	2.8	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	2.0	0.40	ppbv		ND	12	2.4	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	2.0	1.5	ppbv		ND	12	9.0	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	2.0	1.9	ppbv		ND	12	11	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	2.0	1.0	ppbv		ND	9.1	4.5	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: JD56197-1 **Date Sampled:** 11/21/22
Matrix: AIR - Soil Vapor Comp. Summa ID: A724 **Date Received:** 11/23/22
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	5.6	5.0	3.9	ppbv		11	9.4	7.3	ug/m3
100-41-4	106.2	Ethylbenzene	ND	2.0	0.61	ppbv		ND	8.7	2.6	ug/m3
141-78-6	88	Ethyl Acetate	4.3	2.0	1.0	ppbv		15	7.2	3.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	2.0	0.95	ppbv		ND	9.8	4.7	ug/m3
76-13-1	187.4	Freon 113	ND	2.0	0.31	ppbv		ND	15	2.4	ug/m3
76-14-2	170.9	Freon 114	ND	2.0	0.50	ppbv		ND	14	3.5	ug/m3
142-82-5	100.2	Heptane	ND	2.0	0.92	ppbv		ND	8.2	3.8	ug/m3
87-68-3	260.8	Hexachlorobutadiene [b]	ND	2.0	0.62	ppbv		ND	21	6.6	ug/m3
110-54-3	86.18	Hexane	ND	2.0	1.1	ppbv		ND	7.0	3.9	ug/m3
591-78-6	100	2-Hexanone	ND	2.0	1.5	ppbv		ND	8.2	6.1	ug/m3
67-63-0	60.1	Isopropyl Alcohol	20.3	2.0	1.4	ppbv		49.9	4.9	3.4	ug/m3
75-09-2	84.94	Methylene chloride	2.2	2.0	0.56	ppbv		7.6	6.9	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	6.0	2.0	1.1	ppbv		18	5.9	3.2	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	2.0	0.73	ppbv		ND	8.2	3.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	2.0	0.80	ppbv		ND	7.2	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	2.0	0.70	ppbv		ND	8.2	2.9	ug/m3
115-07-1	42	Propylene	ND	5.0	1.4	ppbv		ND	8.6	2.4	ug/m3
100-42-5	104.1	Styrene	ND	2.0	1.2	ppbv		ND	8.5	5.1	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.4	2.0	0.37	ppbv	J	7.6	11	2.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	2.0	0.48	ppbv		ND	14	3.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	2.0	0.38	ppbv		ND	11	2.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene [a]	ND	2.0	1.2	ppbv		ND	15	8.9	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	2.0	0.87	ppbv		ND	9.8	4.3	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	2.0	0.80	ppbv		ND	9.8	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	2.0	0.95	ppbv		ND	9.3	4.4	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	2.0	0.93	ppbv		ND	6.1	2.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	266	0.40	0.14	ppbv		1800	2.7	0.95	ug/m3
109-99-9	72.11	Tetrahydrofuran	35.3	2.0	0.90	ppbv		104	5.9	2.7	ug/m3
108-88-3	92.14	Toluene	ND	2.0	0.57	ppbv		ND	7.5	2.1	ug/m3
79-01-6	131.4	Trichloroethylene	2.6	0.40	0.19	ppbv		14	2.1	1.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.97	2.0	0.36	ppbv	J	5.5	11	2.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	2.0	0.69	ppbv		ND	5.1	1.8	ug/m3
108-05-4	86	Vinyl Acetate	ND	2.0	1.1	ppbv		ND	7.0	3.9	ug/m3
	106.2	m,p-Xylene	ND	2.0	1.4	ppbv		ND	8.7	6.1	ug/m3
95-47-6	106.2	o-Xylene	ND	2.0	0.77	ppbv		ND	8.7	3.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	2.0	0.77	ppbv		ND	8.7	3.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		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:	JD56197-1	**Date Sampled:**	11/21/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A724	**Date Received:**	11/23/22
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.
(b) Associated CCV outside of control limtis 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

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 # 5314 7368 7780
Bottle Order Control # BW-111122-424
SGS Quote #
SGS Job # JD56197

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd. Suite 200
City: Raleigh State: NC Zip: 27607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: 919-461-1100
Sampler(s) Name(s): Tom Ros

Project Information

Project Name: Delaware SVE
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60681452
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: Maximum:
Stop: Minimum:
Atmospheric Pressure (inches of Hg)
Start: Maximum:
Stop: Minimum:
Other weather comment:

Requested Analysis

TO-15 STD ✓

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.
1	SVE-EFF	SV	NR	A724	1L	R703	11/21/22	1430	-27	60	JR	11/21/22	1435	-5	60	JR

Turnaround Time (Business days)

- [ ] 15 Business Days
- [x] 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

YB D ~

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		11/16/22 0900			11/22/22 1600	FedEx
2						
3	FX	11/23/22 10:01				
4						
5				Custody Seal #		

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: JD56197 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 11/23/2022 10:00:00 AM **Delivery Method:** **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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 11/23/22

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
A724	1	29.4	11/15/22	ML	CP11948	6W26973.D	JD56197-1	11/23/22	DG	5			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
FC703	11/15/22	ML	184	.0833	11/23/22	DG	196	6.3	Flow Controller

SGS Bottle Order(s):
BW-111522-424

Prep Date	Room Temp(F)	Bar Pres "Hg
11/15/22	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3079-MB	3W78172.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3079-MB	3W78172.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3079-MB	3W78172.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	65-128%

Method Blank Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-MB	6W26949.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here applies to the following samples: **Method:** TO-15

V6W1141-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-MB	6W26949.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here applies to the following samples: **Method:** TO-15

V6W1141-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-MB	6W26949.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here applies to the following samples: **Method:** TO-15

V6W1141-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.65	3.2	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3079-BS	3W78169.D	1	12/03/22	TCH	n/a	n/a	V3W3079
V3W3079-BSD	3W78170.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.5	85	8.7	87	2	70-130/30
106-99-0	1,3-Butadiene	10	8.0	80	8.1	81	1	70-130/30
71-43-2	Benzene	10	10.1	101	10.1	101	0	70-130/30
75-27-4	Bromodichloromethane	10	11.1	111	11.1	111	0	70-130/30
75-25-2	Bromoform	10	12.3	123	12.2	122	1	70-130/30
74-83-9	Bromomethane	10	9.4	94	9.2	92	2	70-130/30
593-60-2	Bromoethene	10	10	100	10.1	101	1	70-130/30
100-44-7	Benzyl Chloride	10	14.5	145* [a]	14.5	145* [a]	0	70-130/30
75-15-0	Carbon disulfide	10	10.7	107	10.7	107	0	70-130/30
108-90-7	Chlorobenzene	10	9.6	96	9.5	95	1	70-130/30
75-00-3	Chloroethane	10	9.7	97	9.6	96	1	70-130/30
67-66-3	Chloroform	10	11.6	116	11.7	117	1	70-130/30
74-87-3	Chloromethane	10	8.2	82	8.4	84	2	70-130/30
107-05-1	3-Chloropropene	10	10.6	106	10.7	107	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	10.1	101	0	70-130/30
56-23-5	Carbon tetrachloride	10	12.2	122	12.2	122	0	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	10.3	103	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.4	104	10.5	105	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.5	105	10.3	103	2	70-130/30
107-06-2	1,2-Dichloroethane	10	11.7	117	11.7	117	0	70-130/30
78-87-5	1,2-Dichloropropane	10	9.1	91	9.0	90	1	70-130/30
123-91-1	1,4-Dioxane	10	11.1	111	10.9	109	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.9	119	12.2	122	2	70-130/30
124-48-1	Dibromochloromethane	10	10.6	106	10.5	105	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.8	108	10.9	109	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.9	109	10.9	109	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.7	107	10.6	106	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.5	115	11.4	114	1	70-130/30
95-50-1	o-Dichlorobenzene	10	11.5	115	11.5	115	0	70-130/30
106-46-7	p-Dichlorobenzene	10	11.9	119	11.8	118	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.4	114	11.5	115	1	70-130/30
64-17-5	Ethanol	10	7.7	77	7.9	79	3	70-130/30
100-41-4	Ethylbenzene	10	9.6	96	9.5	95	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	11.0	110	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3079-BS	3W78169.D	1	12/03/22	TCH	n/a	n/a	V3W3079
V3W3079-BSD	3W78170.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	11.1	111	11.3	113	2	70-130/30
76-14-2	Freon 114	10	10.5	105	10.6	106	1	70-130/30
142-82-5	Heptane	10	8.3	83	8.3	83	0	70-130/30
87-68-3	Hexachlorobutadiene	10	15.9	159* [a]	16.0	160* [a]	1	70-130/30
110-54-3	Hexane	10	9.7	97	9.5	95	2	70-130/30
591-78-6	2-Hexanone	10	10.4	104	10.3	103	1	70-130/30
67-63-0	Isopropyl Alcohol	10	9.1	91	9.1	91	0	70-130/30
75-09-2	Methylene chloride	10	9.8	98	10	100	2	70-130/30
78-93-3	Methyl ethyl ketone	10	11.2	112	11.4	114	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.8	98	9.7	97	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	11.2	112	11.2	112	0	70-130/30
80-62-6	Methylmethacrylate	10	10.7	107	10.7	107	0	70-130/30
115-07-1	Propylene	10	8.9	89	9.1	91	2	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	12.1	121	12.1	121	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.3	103	10.2	102	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.2	102	10.2	102	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	15.9	159* [a]	16.0	160* [a]	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.3	113	11.1	111	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.1	111	11.0	110	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.3	93	9.0	90	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.3	103	10.4	104	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.9	99	9.8	98	1	70-130/30
109-99-9	Tetrahydrofuran	10	11.2	112	11.3	113	1	70-130/30
108-88-3	Toluene	10	10	100	10.0	100	0	70-130/30
79-01-6	Trichloroethylene	10	10.2	102	10.1	101	1	70-130/30
75-69-4	Trichlorofluoromethane	10	11.9	119	12.0	120	1	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	12.2	122	12.0	120	2	70-130/30
	m,p-Xylene	20	18.8	94	18.5	93	2	70-130/30
95-47-6	o-Xylene	10	9.5	95	9.5	95	0	70-130/30
1330-20-7	Xylenes (total)	30	28.2	94	28.0	93	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3079-BS	3W78169.D	1	12/03/22	TCH	n/a	n/a	V3W3079
V3W3079-BSD	3W78170.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-BS	6W26946.D	1	11/07/22	TCH	n/a	n/a	V6W1141
V6W1141-BSD	6W26947.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here applies to the following samples: **Method:** TO-15

V6W1141-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.8	98	9.4	94	4	70-130/30
106-99-0	1,3-Butadiene	10	10.1	101	9.9	99	2	70-130/30
71-43-2	Benzene	10	8.9	89	8.7	87	2	70-130/30
75-27-4	Bromodichloromethane	10	8.6	86	8.4	84	2	70-130/30
75-25-2	Bromoform	10	9.8	98	9.4	94	4	70-130/30
74-83-9	Bromomethane	10	10.4	104	10.1	101	3	70-130/30
593-60-2	Bromoethene	10	10.5	105	10.2	102	3	70-130/30
100-44-7	Benzyl Chloride	10	10.5	105	10.2	102	3	70-130/30
75-15-0	Carbon disulfide	10	9.5	95	9.1	91	4	70-130/30
108-90-7	Chlorobenzene	10	9.4	94	9.0	90	4	70-130/30
75-00-3	Chloroethane	10	10.8	108	10.3	103	5	70-130/30
67-66-3	Chloroform	10	9.2	92	8.9	89	3	70-130/30
74-87-3	Chloromethane	10	9.4	94	9.1	91	3	70-130/30
107-05-1	3-Chloropropene	10	10.1	101	9.6	96	5	70-130/30
95-49-8	2-Chlorotoluene	10	9.9	99	9.6	96	3	70-130/30
56-23-5	Carbon tetrachloride	10	9.0	90	8.6	86	5	70-130/30
110-82-7	Cyclohexane	10	9.2	92	8.7	87	6	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	9.0	90	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.2	92	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.5	95	9.1	91	4	70-130/30
107-06-2	1,2-Dichloroethane	10	8.7	87	8.4	84	4	70-130/30
78-87-5	1,2-Dichloropropane	10	9.0	90	8.5	85	6	70-130/30
123-91-1	1,4-Dioxane	10	10.8	108	10.3	103	5	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.2	92	8.8	88	4	70-130/30
124-48-1	Dibromochloromethane	10	9.1	91	8.7	87	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.4	94	9.0	90	4	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	9.3	93	9.0	90	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.0	100	9.6	96	4	70-130/30
95-50-1	o-Dichlorobenzene	10	9.9	99	9.5	95	4	70-130/30
106-46-7	p-Dichlorobenzene	10	10.0	100	9.7	97	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.4	94	9.0	90	4	70-130/30
64-17-5	Ethanol	10	9.8	98	9.6	96	2	70-130/30
100-41-4	Ethylbenzene	10	8.3	83	8.0	80	4	70-130/30
141-78-6	Ethyl Acetate	10	9.4	94	9.1	91	3	70-130/30
622-96-8	4-Ethyltoluene	10	10.4	104	10.3	103	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-BS	6W26946.D	1	11/07/22	TCH	n/a	n/a	V6W1141
V6W1141-BSD	6W26947.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here applies to the following samples: **Method:** TO-15

V6W1141-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.7	97	9.4	94	3	70-130/30
76-14-2	Freon 114	10	9.4	94	9.1	91	3	70-130/30
142-82-5	Heptane	10	9.3	93	8.9	89	4	70-130/30
87-68-3	Hexachlorobutadiene	10	11.0	110	10.6	106	4	70-130/30
110-54-3	Hexane	10	9.0	90	8.7	87	3	70-130/30
591-78-6	2-Hexanone	10	12.6	126	12.2	122	3	70-130/30
67-63-0	Isopropyl Alcohol	10	9.5	95	9.2	92	3	70-130/30
75-09-2	Methylene chloride	10	9.2	92	8.9	89	3	70-130/30
78-93-3	Methyl ethyl ketone	10	9.8	98	9.4	94	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.0	110	10.7	107	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.0	80	7.7	77	4	70-130/30
80-62-6	Methylmethacrylate	10	9.6	96	9.5	95	1	70-130/30
115-07-1	Propylene	10	8.9	89	8.7	87	2	70-130/30
100-42-5	Styrene	10	10.2	102	9.8	98	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.8	88	8.5	85	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.8	98	9.4	94	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.4	94	9.0	90	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.2	112	10.5	105	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.5	105	10.2	102	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.5	105	10.0	100	5	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.0	90	8.7	87	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.7	87	8.5	85	2	70-130/30
127-18-4	Tetrachloroethylene	10	9.9	99	9.6	96	3	70-130/30
109-99-9	Tetrahydrofuran	10	9.8	98	9.5	95	3	70-130/30
108-88-3	Toluene	10	8.5	85	8.1	81	5	70-130/30
79-01-6	Trichloroethylene	10	8.7	87	8.4	84	4	70-130/30
75-69-4	Trichlorofluoromethane	10	10	100	9.7	97	3	70-130/30
75-01-4	Vinyl chloride	10	9.6	96	9.4	94	2	70-130/30
108-05-4	Vinyl Acetate	10	10.1	101	9.8	98	3	70-130/30
	m,p-Xylene	20	17.4	87	16.7	84	4	70-130/30
95-47-6	o-Xylene	10	8.8	88	8.5	85	3	70-130/30
1330-20-7	Xylenes (total)	30	26.2	87	25.2	84	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-BS	6W26946.D	1	11/07/22	TCH	n/a	n/a	V6W1141
V6W1141-BSD	6W26947.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here applies to the following samples: **Method:** TO-15

V6W1141-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	103%	104%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD56188-2DUP	3W78174.D	1	12/03/22	TCH	n/a	n/a	V3W3079
JD56188-2	3W78173.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Compound	JD56188-2 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	3.3		4.2		24	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	0.46	J	0.46	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	5.2		5.2		0	25
100-41-4	Ethylbenzene	0.98		0.89		10	25
141-78-6	Ethyl Acetate	1.4		1.3		7	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD56188-2DUP	3W78174.D	1	12/03/22	TCH	n/a	n/a	V3W3079
JD56188-2	3W78173.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Compound	JD56188-2 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	4.2		6.1		37* [a]	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	ND		ND		nc	25
75-09-2	Methylene chloride	10.1		19.1		62* [a]	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	0.59	J	0.51	J	15	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	0.84		0.77		9	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	4.0		3.6		11	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	0.57	J	0.61	J	7	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	4.4		3.9		12	25
95-47-6	o-Xylene	1.9		1.7		11	25
1330-20-7	Xylenes (total)	6.3		5.6		12	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD56188-2DUP	3W78174.D	1	12/03/22	TCH	n/a	n/a	V3W3079
JD56188-2	3W78173.D	1	12/03/22	TCH	n/a	n/a	V3W3079

The QC reported here applies to the following samples: **Method:** TO-15

JD56197-1

CAS No.	Surrogate Recoveries	DUP	JD56188-2	Limits
460-00-4	4-Bromofluorobenzene	100%	105%	65-128%

(a) Outside control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-SCC	6W26971.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here (Summa A1209) applies to the following samples: **Method:** TO-15

Batch CP11948 cleaned 11/04/22: JD56197-1(A724)

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-SCC	6W26971.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here (Summa A1209) applies to the following samples: **Method:** TO-15

Batch CP11948 cleaned 11/04/22: JD56197-1(A724)

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1141-SCC	6W26971.D	1	11/07/22	TCH	n/a	n/a	V6W1141

The QC reported here (Summa A1209) applies to the following samples: **Method:** TO-15

Batch CP11948 cleaned 11/04/22: JD56197-1(A724)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3055-BFB
Lab File ID: 3W77566.D
Instrument ID: GCMS3W
Injection Date: 11/03/22
Injection Time: 02:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	29547	21.0		Pass
75	30.0 - 66.0% of mass 95	73547	52.3		Pass
95	Base peak, 100% relative abundance	140547	100.0		Pass
96	5.0 - 9.0% of mass 95	9241	6.58		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	124965	88.9		Pass
175	4.0 - 9.01% of mass 174	10222	7.27	(8.18) [a]	Pass
176	93.0 - 101.0% of mass 174	121805	86.7	(97.5) [a]	Pass
177	5.0 - 9.0% of mass 176	8004	5.69	(6.57) [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
V3W3055-IC3055	3W77567.D	11/03/22	03:16	00:39	Initial cal 0.04
V3W3055-IC3055	3W77568.D	11/03/22	03:54	01:17	Initial cal 0.1
V3W3055-IC3055	3W77569.D	11/03/22	04:34	01:57	Initial cal 0.2
V3W3055-IC3055	3W77571.D	11/03/22	05:54	03:17	Initial cal 0.5
V3W3055-IC3055	3W77572.D	11/03/22	06:33	03:56	Initial cal 5
V3W3055-ICC3055	3W77573.D	11/03/22	07:12	04:35	Initial cal 10
V3W3055-IC3055	3W77574.D	11/03/22	07:54	05:17	Initial cal 20
V3W3055-IC3055	3W77575.D	11/03/22	08:38	06:01	Initial cal 40
V3W3055-IC3055	3W77576.D	11/03/22	09:25	06:48	Initial cal 50

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3055-BFB
Lab File ID: 3W77583.D
Instrument ID: GCMS3W
Injection Date: 11/06/22
Injection Time: 15:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	44243	25.1		Pass
75	30.0 - 66.0% of mass 95	96336	54.7		Pass
95	Base peak, 100% relative abundance	176213	100.0		Pass
96	5.0 - 9.0% of mass 95	11902	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	163328	92.7		Pass
175	4.0 - 9.01% of mass 174	13564	7.70	(8.30) [a]	Pass
176	93.0 - 101.0% of mass 174	156501	88.8	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	10917	6.20	(6.98) [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
V3W3055-ICV3055	3W77585.D	11/06/22	16:46	01:42	Initial cal verification 10
V3W3056-CC3055	3W77586.D	11/06/22	21:11	06:07	Continuing cal 10
V3W3056-BS	3W77587.D	11/06/22	21:50	06:46	Blank Spike
V3W3056-BSD	3W77588.D	11/06/22	22:32	07:28	Blank Spike Duplicate
V3W3056-MB	3W77590.D	11/06/22	23:56	08:52	Method Blank
V3W3056-SCC	3W77591.D	11/07/22	00:41	09:37	Summa Cleaning Certification
V3W3056-SCC	3W77592.D	11/07/22	01:26	10:22	Summa Cleaning Certification
V3W3056-SCC	3W77594.D	11/07/22	02:56	11:52	Summa Cleaning Certification
V3W3056-SCC	3W77595.D	11/07/22	03:41	12:37	Summa Cleaning Certification
V3W3056-SCC	3W77596.D	11/07/22	04:26	13:22	Summa Cleaning Certification
V3W3056-SCC	3W77597.D	11/07/22	05:10	14:06	Summa Cleaning Certification
V3W3056-SCC	3W77598.D	11/07/22	05:56	14:52	Summa Cleaning Certification
V3W3056-SCC	3W77599.D	11/07/22	06:40	15:36	Summa Cleaning Certification
V3W3056-SCC	3W77600.D	11/07/22	07:26	16:22	Summa Cleaning Certification
V3W3056-SCC	3W77601.D	11/07/22	08:10	17:06	Summa Cleaning Certification
V3W3056-SCC	3W77602.D	11/07/22	08:55	17:51	Summa Cleaning Certification
V3W3056-SCC	3W77605.D	11/07/22	11:10	20:06	Summa Cleaning Certification
V3W3056-SCC	3W77606.D	11/07/22	11:55	20:51	Summa Cleaning Certification
V3W3056-SCC	3W77607.D	11/07/22	12:40	21:36	Summa Cleaning Certification
V3W3056-SCC	3W77608.D	11/07/22	13:24	22:20	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3079-BFB
Lab File ID: 3W78167.D
Instrument ID: GCMS3W
Injection Date: 12/03/22
Injection Time: 14:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	29112	20.3		Pass
75	30.0 - 66.0% of mass 95	82989	57.8		Pass
95	Base peak, 100% relative abundance	143467	100.0		Pass
96	5.0 - 9.0% of mass 95	9458	6.59		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	136123	94.9		Pass
175	4.0 - 9.01% of mass 174	10815	7.54	(7.95) [a]	Pass
176	93.0 - 101.0% of mass 174	131747	91.8	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	8956	6.24	(6.80) [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
V3W3079-CC3055	3W78168.D	12/03/22	15:19	00:39	Continuing cal 10
V3W3079-BS	3W78169.D	12/03/22	15:59	01:19	Blank Spike
V3W3079-BSD	3W78170.D	12/03/22	16:38	01:58	Blank Spike Duplicate
V3W3079-MB	3W78172.D	12/03/22	18:03	03:23	Method Blank
JD56188-2	3W78173.D	12/03/22	18:42	04:02	(used for QC only; not part of job JD56197)
JD56188-2DUP	3W78174.D	12/03/22	19:22	04:42	Duplicate
ZZZZZZ	3W78175.D	12/03/22	20:02	05:22	(unrelated sample)
ZZZZZZ	3W78176.D	12/03/22	20:41	06:01	(unrelated sample)
ZZZZZZ	3W78177.D	12/03/22	21:21	06:41	(unrelated sample)
ZZZZZZ	3W78178.D	12/03/22	22:01	07:21	(unrelated sample)
ZZZZZZ	3W78179.D	12/03/22	22:40	08:00	(unrelated sample)
ZZZZZZ	3W78180.D	12/03/22	23:20	08:40	(unrelated sample)
ZZZZZZ	3W78181.D	12/03/22	23:58	09:18	(unrelated sample)
ZZZZZZ	3W78182.D	12/04/22	00:38	09:58	(unrelated sample)
ZZZZZZ	3W78183.D	12/04/22	01:17	10:37	(unrelated sample)
ZZZZZZ	3W78184.D	12/04/22	01:57	11:17	(unrelated sample)
ZZZZZZ	3W78185.D	12/04/22	02:37	11:57	(unrelated sample)
ZZZZZZ	3W78186.D	12/04/22	03:16	12:36	(unrelated sample)
ZZZZZZ	3W78187.D	12/04/22	03:55	13:15	(unrelated sample)
ZZZZZZ	3W78188.D	12/04/22	04:33	13:53	(unrelated sample)
ZZZZZZ	3W78189.D	12/04/22	05:12	14:32	(unrelated sample)
JD56197-1	3W78193.D	12/04/22	07:45	17:05	SVE-EFF
ZZZZZZ	3W78196.D	12/04/22	12:27	21:47	(unrelated sample)
ZZZZZZ	3W78197.D	12/04/22	13:07	22:27	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3079-BFB	**Injection Date:**	12/03/22
Lab File ID:	3W78167.D	**Injection Time:**	14:40
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W78198.D	12/04/22	13:45	23:05	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1125-BFB	**Injection Date:**	10/19/22
Lab File ID:	6W26446.D	**Injection Time:**	17:44
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11894	25.6		Pass
75	30.0 - 66.0% of mass 95	23544	50.6		Pass
95	Base peak, 100% relative abundance	46541	100.0		Pass
96	5.0 - 9.0% of mass 95	3244	6.97		Pass
173	Less than 2.0% of mass 174	352	0.76	(0.98) [a]	Pass
174	50.0 - 120.0% of mass 95	35928	77.2		Pass
175	4.0 - 9.01% of mass 174	2432	5.23	(6.77) [a]	Pass
176	93.0 - 101.0% of mass 174	34165	73.4	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2442	5.25	(7.15) [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
V6W1125-IC1125	6W26448.D	10/19/22	19:10	01:26	Initial cal 0.04
V6W1125-IC1125	6W26449.D	10/19/22	19:43	01:59	Initial cal 0.1
V6W1125-IC1125	6W26450.D	10/19/22	20:15	02:31	Initial cal 0.2
V6W1125-IC1125	6W26451.D	10/19/22	20:47	03:03	Initial cal 0.5
V6W1125-IC1125	6W26453.D	10/19/22	21:52	04:08	Initial cal 5
V6W1125-ICC1125	6W26454.D	10/19/22	22:25	04:41	Initial cal 10
V6W1125-IC1125	6W26455.D	10/19/22	22:57	05:13	Initial cal 20
V6W1125-IC1125	6W26456.D	10/19/22	23:29	05:45	Initial cal 40
V6W1125-IC1125	6W26457.D	10/20/22	00:03	06:19	Initial cal 50
V6W1125-ICV1125	6W26462.D	10/20/22	09:08	15:24	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V6W1141-BFB
Lab File ID: 6W26944.D
Instrument ID: GCMS6W
Injection Date: 11/07/22
Injection Time: 07:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	7992	24.5		Pass
75	30.0 - 66.0% of mass 95	16955	52.0		Pass
95	Base peak, 100% relative abundance	32624	100.0		Pass
96	5.0 - 9.0% of mass 95	1954	5.99		Pass
173	Less than 2.0% of mass 174	210	0.64	(0.78) [a]	Pass
174	50.0 - 120.0% of mass 95	26923	82.5		Pass
175	4.0 - 9.01% of mass 174	1824	5.59	(6.77) [a]	Pass
176	93.0 - 101.0% of mass 174	25112	77.0	(93.3) [a]	Pass
177	5.0 - 9.0% of mass 176	1556	4.77	(6.20) [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
V6W1141-CC1125	6W26945.D	11/07/22	08:11	00:33	Continuing cal 10
V6W1141-BS	6W26946.D	11/07/22	08:52	01:14	Blank Spike
V6W1141-BSD	6W26947.D	11/07/22	09:25	01:47	Blank Spike Duplicate
V6W1141-MB	6W26949.D	11/07/22	10:43	03:05	Method Blank
V6W1141-SCC	6W26950.D	11/07/22	11:38	04:00	Summa Cleaning Certification
V6W1141-SCC	6W26951.D	11/07/22	12:11	04:33	Summa Cleaning Certification
V6W1141-SCC	6W26952.D	11/07/22	12:43	05:05	Summa Cleaning Certification
ZZZZZZ	6W26953.D	11/07/22	13:21	05:43	(unrelated sample)
ZZZZZZ	6W26955.D	11/07/22	14:46	07:08	(unrelated sample)
ZZZZZZ	6W26956.D	11/07/22	15:18	07:40	(unrelated sample)
ZZZZZZ	6W26957.D	11/07/22	15:52	08:14	(unrelated sample)
JD54490-11	6W26958.D	11/07/22	16:25	08:47	(used for QC only; not part of job JD56197)
JD54490-11DUP	6W26959.D	11/07/22	16:58	09:20	Duplicate
ZZZZZZ	6W26960.D	11/07/22	17:31	09:53	(unrelated sample)
ZZZZZZ	6W26961.D	11/07/22	18:03	10:25	(unrelated sample)
ZZZZZZ	6W26962.D	11/07/22	18:36	10:58	(unrelated sample)
ZZZZZZ	6W26963.D	11/07/22	19:08	11:30	(unrelated sample)
ZZZZZZ	6W26964.D	11/07/22	19:40	12:02	(unrelated sample)
ZZZZZZ	6W26965.D	11/07/22	20:13	12:35	(unrelated sample)
ZZZZZZ	6W26969.D	11/07/22	22:23	14:45	(unrelated sample)
V6W1141-SCC	6W26971.D	11/07/22	23:45	16:07	Summa Cleaning Certification
V6W1141-SCC	6W26972.D	11/08/22	00:17	16:39	Summa Cleaning Certification
V6W1141-SCC	6W26973.D	11/08/22	00:50	17:12	Summa Cleaning Certification
V6W1141-SCC	6W26974.D	11/08/22	01:22	17:44	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD56197
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1141-BFB	**Injection Date:**	11/07/22
Lab File ID:	6W26944.D	**Injection Time:**	07:38
Instrument ID:	GCMS6W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1141-SCC	6W26976.D	11/08/22	02:26	18:48	Summa Cleaning Certification
V6W1141-SCC	6W26977.D	11/08/22	02:59	19:21	Summa Cleaning Certification
V6W1141-SCC	6W26978.D	11/08/22	03:32	19:54	Summa Cleaning Certification
V6W1141-SCC	6W26979.D	11/08/22	04:05	20:27	Summa Cleaning Certification
V6W1141-SCC	6W26980.D	11/08/22	04:38	21:00	Summa Cleaning Certification
V6W1141-SCC	6W26981.D	11/08/22	05:10	21:32	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD56197
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
JD56197-1	3W78193.D	101
JD56188-2DUP	3W78174.D	100
V3W3079-BS	3W78169.D	99
V3W3079-BSD	3W78170.D	99
V3W3079-MB	3W78172.D	99
V6W1141-SCC	6W26971.D	98
V6W1141-BS	6W26946.D	103
V6W1141-BSD	6W26947.D	104
V6W1141-MB	6W26949.D	100

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

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

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Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60681452

SGS Job Number: JD59113

Sampling Date: 01/19/23



Report to:

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Total number of pages in report: **41**

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.

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: JD59113

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60681452

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD59113-1	01/19/23	11:39	IR	01/20/23	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:**	JD59113
Site:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC	**Report Date**	2/3/2023 2:46:50 PM

On 01/20/2023, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD59113 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.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V2W2807

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD59342-9DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- V2W2807-BS for Propylene: Outside in house control limits.
- JD59113-1 for Propylene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

Matrix: AIR **Batch ID:** V7W15

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD59143-13DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD59113
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 01/19/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD59113-1	**SVE-EFF**					
Acetone (2-Propanone)		54.6	0.80	0.58	ppbv	TO-15
Benzene		67.7	0.80	0.25	ppbv	TO-15
cis-1,2-Dichloroethylene		0.45 J	0.80	0.31	ppbv	TO-15
Ethanol		82.1	2.0	1.6	ppbv	TO-15
Ethylbenzene		1.1	0.80	0.24	ppbv	TO-15
Ethyl Acetate		203	4.0	2.1	ppbv	TO-15
Heptane		1.2	0.80	0.37	ppbv	TO-15
Hexane		0.51 J	0.80	0.45	ppbv	TO-15
Isopropyl Alcohol		7.1	0.80	0.56	ppbv	TO-15
Methyl ethyl ketone		2.9	0.80	0.44	ppbv	TO-15
Methyl Isobutyl Ketone		2.5	0.80	0.29	ppbv	TO-15
1,1,1-Trichloroethane		0.77 J	0.80	0.15	ppbv	TO-15
Tertiary Butyl Alcohol		1.8	0.80	0.37	ppbv	TO-15
Tetrachloroethylene		181	0.16	0.056	ppbv	TO-15
Toluene		7.0	0.80	0.23	ppbv	TO-15
Trichloroethylene		1.3	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		0.50 J	0.80	0.14	ppbv	TO-15
Vinyl Acetate		4.2	0.80	0.45	ppbv	TO-15
m,p-Xylene		3.1	0.80	0.56	ppbv	TO-15
o-Xylene		0.98	0.80	0.31	ppbv	TO-15
Xylenes (total)		4.1	0.80	0.31	ppbv	TO-15
Acetone (2-Propanone)		130	1.9	1.4	ug/m3	TO-15
Benzene		216	2.6	0.80	ug/m3	TO-15
cis-1,2-Dichloroethylene		1.8 J	3.2	1.2	ug/m3	TO-15
Ethanol		155	3.8	3.0	ug/m3	TO-15
Ethylbenzene		4.8	3.5	1.0	ug/m3	TO-15
Ethyl Acetate		731	14	7.6	ug/m3	TO-15
Heptane		4.9	3.3	1.5	ug/m3	TO-15
Hexane		1.8 J	2.8	1.6	ug/m3	TO-15
Isopropyl Alcohol		17	2.0	1.4	ug/m3	TO-15
Methyl ethyl ketone		8.6	2.4	1.3	ug/m3	TO-15
Methyl Isobutyl Ketone		10	3.3	1.2	ug/m3	TO-15
1,1,1-Trichloroethane		4.2 J	4.4	0.82	ug/m3	TO-15
Tertiary Butyl Alcohol		5.5	2.4	1.1	ug/m3	TO-15
Tetrachloroethylene		1230	1.1	0.38	ug/m3	TO-15
Toluene		26	3.0	0.87	ug/m3	TO-15
Trichloroethylene		7.0	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		2.8 J	4.5	0.79	ug/m3	TO-15
Vinyl Acetate		15	2.8	1.6	ug/m3	TO-15
m,p-Xylene		13	3.5	2.4	ug/m3	TO-15
o-Xylene		4.3	3.5	1.3	ug/m3	TO-15
Xylenes (total)		18	3.5	1.3	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SVE-EFF
Lab Sample ID: JD59113-1 **Date Sampled:** 01/19/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A1248 **Date Received:** 01/20/23
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	2W63137.D	1	01/30/23 21:22	TCH	n/a	n/a	V2W2807
Run #2	7W00279.D	1	02/02/23 16:16	TCH	n/a	n/a	V7W15

	Initial Volume
Run #1	100 ml
Run #2	20.0 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)	54.6	0.80	0.58	ppbv		130	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	67.7	0.80	0.25	ppbv		216	2.6	0.80	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	0.44	ppbv		ND	2.8	1.5	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	0.39	ppbv		ND	6.1	3.0	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	0.13	ppbv		ND	4.0	0.64	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	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.45	0.80	0.31	ppbv	J	1.8	3.2	1.2	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	0.62	ppbv		ND	4.8	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	4.6	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: JD59113-1 **Date Sampled:** 01/19/23
Matrix: AIR - Soil Vapor Comp. Summa ID: A1248 **Date Received:** 01/20/23
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	82.1	2.0	1.6	ppbv		155	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	1.1	0.80	0.24	ppbv		4.8	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	203 [a]	4.0	2.1	ppbv		731 [a]	14	7.6	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	1.2	0.80	0.37	ppbv		4.9	3.3	1.5	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	0.51	0.80	0.45	ppbv	J	1.8	2.8	1.6	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	7.1	0.80	0.56	ppbv		17	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	2.9	0.80	0.44	ppbv		8.6	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	2.5	0.80	0.29	ppbv		10	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 [b]	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.77	0.80	0.15	ppbv	J	4.2	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	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.8	0.80	0.37	ppbv		5.5	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	181	0.16	0.056	ppbv		1230	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	7.0	0.80	0.23	ppbv		26	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	0.50	0.80	0.14	ppbv	J	2.8	4.5	0.79	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	4.2	0.80	0.45	ppbv		15	2.8	1.6	ug/m3
	106.2	m,p-Xylene	3.1	0.80	0.56	ppbv		13	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	0.98	0.80	0.31	ppbv		4.3	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	4.1	0.80	0.31	ppbv		18	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	105%	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:	JD59113-1	**Date Sampled:**	01/19/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1248	**Date Received:**	01/20/23
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

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

AIR

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 7369 4704
Bottle Order Control #: BW-121520-795
SGS Quote #:
SGS Job #: JD 59113

Client / Reporting Information

Company Name: AECOM
Address: 5438 Wade Park Blvd. Ste. 200
City: Raleigh State: NC Zip: 27607
Project Contact: Conan Fitzgerald E-mail: conan.fitzgerald@aecom.com
Phone #: (919) 461-1100
Sampler(s) Name(s): Ian Ros

Project Information

Project Name: Delaven SVE
Street: 4334 Main Hwy
City: Bamberg State: SC
Project #: 60681482
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit) Start: 69 Maximum: Stop: 69 Minimum:
Atmoshpheric Pressure (inches of Hg) Start: 29.97 Maximum: Stop: 29.97 Minimum:
Other weather comment:

Requested Analysis

TO-15 STD.

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.	TO-15 STD.
1	SVE-EFF	SV	NR	ATUB	1L	FC840	1/19/23	1135	-20	69	IR	1/19/23	1139	-4	69	IR	X

Summa

Turnaround Time (Business days)

- 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 W.T.	12/15/100 13:30	1	2	1/19/23 1730	2 Fed Ex
Relinquished by: 3 Fed Ex	Date / Time: 1/20/23 10:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #		

Initial Assessment
Final Verification

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: JD59113 **Client:** AECOM, INC. **Project:** AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 1/20/2023 10:05:00 AM **Delivery Method:** **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

JD59113: Chain of Custody
Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 01/20/23

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
A1248	1	29.4	12/15/22	DG	CP11977	6W27321.D	JD59113-1	01/24/23	DG	2			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
FC840	12/15/22	DG	185	.0833	01/24/23	ML	191	3.2	Flow Controller

SGS Bottle Order(s):
BW-121522-795

Prep Date	Room Temp(F)	Bar Pres "Hg
12/15/22	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: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2807-MB	2W63127.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3

Method Blank Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2807-MB	2W63127.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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	92%	65-128%

Method Blank Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W15-MB	7W00272.D	1	02/02/23	TCH	n/a	n/a	V7W15

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	99%	65-128%

Method Blank Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-MB	6W27296.D	1	11/28/22	TCH	n/a	n/a	V6W1152

The QC reported here applies to the following samples: **Method:** TO-15

V6W1152-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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-MB	6W27296.D	1	11/28/22	TCH	n/a	n/a	V6W1152

The QC reported here applies to the following samples: **Method:** TO-15

V6W1152-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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-MB	6W27296.D	1	11/28/22	TCH	n/a	n/a	V6W1152

The QC reported here applies to the following samples: **Method:** TO-15

V6W1152-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	92%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.65	4.3	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2807-BS	2W63122.D	1	01/30/23	TCH	n/a	n/a	V2W2807
V2W2807-BSD	2W63123.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.9	109	10.5	105	4	70-130/30
106-99-0	1,3-Butadiene	10	12.6	126	12.1	121	4	70-130/30
71-43-2	Benzene	10	10.1	101	9.9	99	2	70-130/30
75-27-4	Bromodichloromethane	10	10.8	108	10.7	107	1	70-130/30
75-25-2	Bromoform	10	11.4	114	11.2	112	2	70-130/30
74-83-9	Bromomethane	10	9.9	99	9.5	95	4	70-130/30
593-60-2	Bromoethene	10	9.7	97	9.5	95	2	70-130/30
100-44-7	Benzyl Chloride	10	8.8	88	8.5	85	3	70-130/30
75-15-0	Carbon disulfide	10	9.6	96	9.3	93	3	70-130/30
108-90-7	Chlorobenzene	10	11.0	110	10.8	108	2	70-130/30
75-00-3	Chloroethane	10	11.3	113	11.1	111	2	70-130/30
67-66-3	Chloroform	10	10.1	101	9.9	99	2	70-130/30
74-87-3	Chloromethane	10	12.4	124	12.0	120	3	70-130/30
107-05-1	3-Chloropropene	10	8.6	86	8.6	86	0	70-130/30
95-49-8	2-Chlorotoluene	10	10.8	108	10.6	106	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	10.3	103	2	70-130/30
110-82-7	Cyclohexane	10	10.6	106	10.4	104	2	70-130/30
75-34-3	1,1-Dichloroethane	10	11.2	112	11.0	110	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.9	89	8.6	86	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.6	106	10.5	105	1	70-130/30
107-06-2	1,2-Dichloroethane	10	9.5	95	9.3	93	2	70-130/30
78-87-5	1,2-Dichloropropane	10	12.0	120	11.7	117	3	70-130/30
123-91-1	1,4-Dioxane	10	10.7	107	10.6	106	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.1	91	8.8	88	3	70-130/30
124-48-1	Dibromochloromethane	10	11.7	117	11.5	115	2	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	10.6	106	10.5	105	1	70-130/30
541-73-1	m-Dichlorobenzene	10	13.0	130	11.4	114	13	70-130/30
95-50-1	o-Dichlorobenzene	10	11.4	114	11.1	111	3	70-130/30
106-46-7	p-Dichlorobenzene	10	11.8	118	11.5	115	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.0	100	10	100	0	70-130/30
64-17-5	Ethanol	10	11.3	113	10.7	107	5	70-130/30
100-41-4	Ethylbenzene	10	10.1	101	9.9	99	2	70-130/30
622-96-8	4-Ethyltoluene	10	11.7	117	11.0	110	6	70-130/30
76-13-1	Freon 113	10	8.6	86	8.4	84	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2807-BS	2W63122.D	1	01/30/23	TCH	n/a	n/a	V2W2807
V2W2807-BSD	2W63123.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-14-2	Freon 114	10	9.4	94	9.1	91	3	70-130/30
142-82-5	Heptane	10	12.5	125	12.2	122	2	70-130/30
87-68-3	Hexachlorobutadiene	10	9.1	91	8.8	88	3	70-130/30
110-54-3	Hexane	10	11.8	118	11.6	116	2	70-130/30
591-78-6	2-Hexanone	10	12.5	125	12.4	124	1	70-130/30
67-63-0	Isopropyl Alcohol	10	11.5	115	11.2	112	3	70-130/30
75-09-2	Methylene chloride	10	7.8	78	7.6	76	3	70-130/30
78-93-3	Methyl ethyl ketone	10	11.1	111	10.9	109	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	12.3	123	12.1	121	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.6	96	9.4	94	2	70-130/30
80-62-6	Methylmethacrylate	10	11.3	113	11.3	113	0	70-130/30
115-07-1	Propylene	10	13.9	139* [a]	13.6	136* [a]	2	70-130/30
100-42-5	Styrene	10	11.0	110	10.7	107	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.7	97	9.6	96	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.1	111	10.9	109	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.8	108	10.6	106	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.9	99	9.7	97	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.2	112	11.0	110	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.0	110	10.6	106	4	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	12.5	125	12.4	124	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.7	87	8.4	84	4	70-130/30
127-18-4	Tetrachloroethylene	10	11.0	110	11.0	110	0	70-130/30
109-99-9	Tetrahydrofuran	10	11.5	115	11.2	112	3	70-130/30
108-88-3	Toluene	10	10.5	105	10.3	103	2	70-130/30
79-01-6	Trichloroethylene	10	10.6	106	10.5	105	1	70-130/30
75-69-4	Trichlorofluoromethane	10	8.5	85	8.3	83	2	70-130/30
75-01-4	Vinyl chloride	10	11.4	114	11.0	110	4	70-130/30
108-05-4	Vinyl Acetate	10	12.3	123	12.0	120	2	70-130/30
	m,p-Xylene	20	20.0	100	19.6	98	2	70-130/30
95-47-6	o-Xylene	10	9.8	98	9.6	96	2	70-130/30
1330-20-7	Xylenes (total)	30	29.8	99	29.2	97	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	94%	93%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2807-BS	2W63122.D	1	01/30/23	TCH	n/a	n/a	V2W2807
V2W2807-BSD	2W63123.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

(a) Outside in house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W15-BS	7W00269.D	1	02/02/23	TCH	n/a	n/a	V7W15
V7W15-BSD	7W00270.D	1	02/02/23	TCH	n/a	n/a	V7W15

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
141-78-6	Ethyl Acetate	10	8.8	88	8.7	87	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	108%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-BS	6W27293.D	1	11/28/22	TCH	n/a	n/a	V6W1152
V6W1152-BSD	6W27294.D	1	11/28/22	TCH	n/a	n/a	V6W1152

The QC reported here applies to the following samples: **Method:** TO-15

V6W1152-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.2	92	9.2	92	0	70-130/30
106-99-0	1,3-Butadiene	10	9.3	93	9.4	94	1	70-130/30
71-43-2	Benzene	10	8.4	84	8.5	85	1	70-130/30
75-27-4	Bromodichloromethane	10	8.7	87	8.7	87	0	70-130/30
75-25-2	Bromoform	10	10.6	106	10.7	107	1	70-130/30
74-83-9	Bromomethane	10	10.7	107	10.8	108	1	70-130/30
593-60-2	Bromoethene	10	10.7	107	10.9	109	2	70-130/30
100-44-7	Benzyl Chloride	10	12.4	124	12.4	124	0	70-130/30
75-15-0	Carbon disulfide	10	9.1	91	9.2	92	1	70-130/30
108-90-7	Chlorobenzene	10	9.9	99	10.2	102	3	70-130/30
75-00-3	Chloroethane	10	10	100	10.1	101	1	70-130/30
67-66-3	Chloroform	10	8.8	88	8.9	89	1	70-130/30
74-87-3	Chloromethane	10	8.5	85	8.4	84	1	70-130/30
107-05-1	3-Chloropropene	10	9.3	93	9.5	95	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.6	106	1	70-130/30
56-23-5	Carbon tetrachloride	10	8.6	86	8.8	88	2	70-130/30
110-82-7	Cyclohexane	10	9.1	91	9.1	91	0	70-130/30
75-34-3	1,1-Dichloroethane	10	8.7	87	8.8	88	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.8	98	9.9	99	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.2	102	10.4	104	2	70-130/30
107-06-2	1,2-Dichloroethane	10	7.9	79	8.0	80	1	70-130/30
78-87-5	1,2-Dichloropropane	10	8.8	88	8.8	88	0	70-130/30
123-91-1	1,4-Dioxane	10	11.1	111	11.8	118	6	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.3	113	11.4	114	1	70-130/30
124-48-1	Dibromochloromethane	10	10.1	101	10.1	101	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.5	95	9.6	96	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.2	92	9.4	94	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.2	92	9.4	94	2	70-130/30
541-73-1	m-Dichlorobenzene	10	11.8	118	11.9	119	1	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	12.0	120	12.0	120	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.4	94	9.5	95	1	70-130/30
64-17-5	Ethanol	10	8.9	89	9.0	90	1	70-130/30
100-41-4	Ethylbenzene	10	8.7	87	8.8	88	1	70-130/30
141-78-6	Ethyl Acetate	10	9.1	91	9.1	91	0	70-130/30
622-96-8	4-Ethyltoluene	10	11.3	113	11.4	114	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-BS	6W27293.D	1	11/28/22	TCH	n/a	n/a	V6W1152
V6W1152-BSD	6W27294.D	1	11/28/22	TCH	n/a	n/a	V6W1152

The QC reported here applies to the following samples: **Method:** TO-15

V6W1152-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	10.5	105	3	70-130/30
76-14-2	Freon 114	10	9.3	93	9.4	94	1	70-130/30
142-82-5	Heptane	10	9.1	91	9.2	92	1	70-130/30
87-68-3	Hexachlorobutadiene	10	13.5	135* [a]	13.7	137* [a]	1	70-130/30
110-54-3	Hexane	10	8.3	83	8.5	85	2	70-130/30
591-78-6	2-Hexanone	10	13.1	131* [a]	13.0	130	1	70-130/30
67-63-0	Isopropyl Alcohol	10	8.4	84	8.6	86	2	70-130/30
75-09-2	Methylene chloride	10	9.0	90	9.1	91	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.3	93	9.4	94	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.5	115	11.6	116	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	7.1	71	7.3	73	3	70-130/30
80-62-6	Methylmethacrylate	10	10.0	100	10.2	102	2	70-130/30
115-07-1	Propylene	10	8.7	87	8.8	88	1	70-130/30
100-42-5	Styrene	10	10.7	107	10.8	108	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.7	87	8.8	88	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.6	106	10.7	107	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.1	101	10.3	103	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	14.3	143* [a]	14.3	143* [a]	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.4	114	11.4	114	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.1	111	11.2	112	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.7	87	9.5	95	9	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	7.9	79	8.1	81	2	70-130/30
127-18-4	Tetrachloroethylene	10	10.9	109	11.0	110	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.2	92	9.4	94	2	70-130/30
108-88-3	Toluene	10	9.2	92	9.4	94	2	70-130/30
79-01-6	Trichloroethylene	10	9.0	90	9.1	91	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.5	95	9.6	96	1	70-130/30
75-01-4	Vinyl chloride	10	9.1	91	9.3	93	2	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	10.5	105	3	70-130/30
	m,p-Xylene	20	18.3	92	18.5	93	1	70-130/30
95-47-6	o-Xylene	10	9.2	92	9.4	94	2	70-130/30
1330-20-7	Xylenes (total)	30	27.5	92	27.9	93	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-BS	6W27293.D	1	11/28/22	TCH	n/a	n/a	V6W1152
V6W1152-BSD	6W27294.D	1	11/28/22	TCH	n/a	n/a	V6W1152

The QC reported here applies to the following samples: **Method:** TO-15

V6W1152-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	97%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD59342-9DUP	2W63130.D	1	01/30/23	TCH	n/a	n/a	V2W2807
JD59342-9	2W63129.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	JD59342-9 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	29.6		29.6		0	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	1.2		1.3		8	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	0.53	J	0.54	J	2	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	0.58	J	0.63	J	8	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	1.1		1.2		9	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	75.7		73.3		3	25
100-41-4	Ethylbenzene	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25
76-13-1	Freon 113	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD59342-9DUP	2W63130.D	1	01/30/23	TCH	n/a	n/a	V2W2807
JD59342-9	2W63129.D	1	01/30/23	TCH	n/a	n/a	V2W2807

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	JD59342-9 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	1.1		1.1		0	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	2.9		2.9		0	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	22.8		22.5		1	25
75-09-2	Methylene chloride	1.0		1.0		0	25
78-93-3	Methyl ethyl ketone	0.85		0.86		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	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	0.46	J	0.46	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	0.59	J	0.64	J	8	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	25.5		26.4		3	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	3.0		3.1		3	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	JD59342-9	Limits
460-00-4	4-Bromofluorobenzene	96%	92%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD59143-13DUP	7W00278.D	1	02/02/23	TCH	n/a	n/a	V7W15
JD59143-13 [a]	7W00277.D	1	02/02/23	TCH	n/a	n/a	V7W15

The QC reported here applies to the following samples: **Method:** TO-15

JD59113-1

CAS No.	Compound	JD59143-13 ppbv	Q	DUP ppbv	Q	RPD	Limits
141-78-6	Ethyl Acetate	1.8		1.8		0	25

CAS No.	Surrogate Recoveries	DUP	JD59143-13	Limits
460-00-4	4-Bromofluorobenzene	113%	112%	65-128%

(a) Preliminary Data.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-SCC	6W27320.D	1	11/29/22	TCH	n/a	n/a	V6W1152

The QC reported here (Summa A1966) applies to the following samples: **Method:** TO-15

Batch CP11977 cleaned 11/18/22: JD59113-1(A1248)

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	0.062	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	0.11	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	0.097	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	0.032	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	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	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	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	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: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-SCC	6W27320.D	1	11/29/22	TCH	n/a	n/a	V6W1152

The QC reported here (Summa A1966) applies to the following samples: **Method:** TO-15

Batch CP11977 cleaned 11/18/22: JD59113-1(A1248)

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	0.092	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	0.11	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	0.12	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	0.095	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	0.036	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: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1152-SCC	6W27320.D	1	11/29/22	TCH	n/a	n/a	V6W1152

The QC reported here (Summa A1966) applies to the following samples: **Method:** TO-15

Batch CP11977 cleaned 11/18/22: JD59113-1(A1248)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	91%	65-128%

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2776-BFB
Lab File ID: 2W62382.D
Instrument ID: GCMS2W
Injection Date: 12/14/22
Injection Time: 17:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	13015	22.8		Pass
75	30.0 - 66.0% of mass 95	30880	54.0		Pass
95	Base peak, 100% relative abundance	57157	100.0		Pass
96	5.0 - 9.0% of mass 95	3907	6.84		Pass
173	Less than 2.0% of mass 174	242	0.42	(0.57) [a]	Pass
174	50.0 - 120.0% of mass 95	42512	74.4		Pass
175	4.0 - 9.01% of mass 174	3043	5.32	(7.16) [a]	Pass
176	93.0 - 101.0% of mass 174	40504	70.9	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2767	4.84	(6.83) [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
V2W2776-IC2776	2W62383.D	12/14/22	17:55	00:32	Initial cal 0.04
V2W2776-IC2776	2W62384.D	12/14/22	18:28	01:05	Initial cal 0.1
V2W2776-IC2776	2W62385.D	12/14/22	18:59	01:36	Initial cal 0.2
V2W2776-IC2776	2W62386.D	12/14/22	19:31	02:08	Initial cal 0.5
V2W2776-IC2776	2W62388.D	12/14/22	20:33	03:10	Initial cal 5
V2W2776-ICC2776	2W62389.D	12/14/22	21:05	03:42	Initial cal 10
V2W2776-IC2776	2W62390.D	12/14/22	21:37	04:14	Initial cal 20
V2W2776-IC2776	2W62391.D	12/14/22	22:12	04:49	Initial cal 40
V2W2776-IC2776	2W62392.D	12/14/22	22:47	05:24	Initial cal 50
V2W2776-ICV2776	2W62395.D	12/15/22	00:22	06:59	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2807-BFB
Lab File ID: 2W63120.D
Instrument ID: GCMS2W
Injection Date: 01/30/23
Injection Time: 09:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11457	21.6		Pass
75	30.0 - 66.0% of mass 95	25661	48.3		Pass
95	Base peak, 100% relative abundance	53160	100.0		Pass
96	5.0 - 9.0% of mass 95	3561	6.70		Pass
173	Less than 2.0% of mass 174	203	0.38	(0.51) [a]	Pass
174	50.0 - 120.0% of mass 95	39947	75.1		Pass
175	4.0 - 9.01% of mass 174	2656	5.00	(6.65) [a]	Pass
176	93.0 - 101.0% of mass 174	38973	73.3	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2592	4.88	(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
V2W2807-CC2776	2W63121.D	01/30/23	10:03	00:33	Continuing cal 10
V2W2807-BS	2W63122.D	01/30/23	10:41	01:11	Blank Spike
V2W2807-BSD	2W63123.D	01/30/23	11:15	01:45	Blank Spike Duplicate
V2W2807-MB	2W63127.D	01/30/23	14:09	04:39	Method Blank
ZZZZZZ	2W63128.D	01/30/23	16:17	06:47	(unrelated sample)
JD59342-9	2W63129.D	01/30/23	16:50	07:20	(used for QC only; not part of job JD59113)
JD59342-9DUP	2W63130.D	01/30/23	17:25	07:55	Duplicate
ZZZZZZ	2W63131.D	01/30/23	17:59	08:29	(unrelated sample)
ZZZZZZ	2W63132.D	01/30/23	18:32	09:02	(unrelated sample)
ZZZZZZ	2W63133.D	01/30/23	19:07	09:37	(unrelated sample)
ZZZZZZ	2W63134.D	01/30/23	19:41	10:11	(unrelated sample)
ZZZZZZ	2W63135.D	01/30/23	20:15	10:45	(unrelated sample)
ZZZZZZ	2W63136.D	01/30/23	20:49	11:19	(unrelated sample)
JD59113-1	2W63137.D	01/30/23	21:22	11:52	SVE-EFF
ZZZZZZ	2W63138.D	01/30/23	22:03	12:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1125-BFB	**Injection Date:**	10/19/22
Lab File ID:	6W26446.D	**Injection Time:**	17:44
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11894	25.6		Pass
75	30.0 - 66.0% of mass 95	23544	50.6		Pass
95	Base peak, 100% relative abundance	46541	100.0		Pass
96	5.0 - 9.0% of mass 95	3244	6.97		Pass
173	Less than 2.0% of mass 174	352	0.76	(0.98) [a]	Pass
174	50.0 - 120.0% of mass 95	35928	77.2		Pass
175	4.0 - 9.01% of mass 174	2432	5.23	(6.77) [a]	Pass
176	93.0 - 101.0% of mass 174	34165	73.4	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2442	5.25	(7.15) [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
V6W1125-IC1125	6W26448.D	10/19/22	19:10	01:26	Initial cal 0.04
V6W1125-IC1125	6W26449.D	10/19/22	19:43	01:59	Initial cal 0.1
V6W1125-IC1125	6W26450.D	10/19/22	20:15	02:31	Initial cal 0.2
V6W1125-IC1125	6W26451.D	10/19/22	20:47	03:03	Initial cal 0.5
V6W1125-IC1125	6W26453.D	10/19/22	21:52	04:08	Initial cal 5
V6W1125-ICC1125	6W26454.D	10/19/22	22:25	04:41	Initial cal 10
V6W1125-IC1125	6W26455.D	10/19/22	22:57	05:13	Initial cal 20
V6W1125-IC1125	6W26456.D	10/19/22	23:29	05:45	Initial cal 40
V6W1125-IC1125	6W26457.D	10/20/22	00:03	06:19	Initial cal 50
V6W1125-ICV1125	6W26462.D	10/20/22	09:08	15:24	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1152-BFB	**Injection Date:**	11/28/22
Lab File ID:	6W27290.D	**Injection Time:**	11:58
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	9522	22.4		Pass
75	30.0 - 66.0% of mass 95	20360	47.8		Pass
95	Base peak, 100% relative abundance	42576	100.0		Pass
96	5.0 - 9.0% of mass 95	2763	6.49		Pass
173	Less than 2.0% of mass 174	354	0.83	(0.96) [a]	Pass
174	50.0 - 120.0% of mass 95	36965	86.8		Pass
175	4.0 - 9.01% of mass 174	2745	6.45	(7.43) [a]	Pass
176	93.0 - 101.0% of mass 174	36280	85.2	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2339	5.49	(6.45) [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
V6W1152-CC1125	6W27292.D	11/28/22	13:24	01:26	Continuing cal 10
V6W1152-BS	6W27293.D	11/28/22	14:03	02:05	Blank Spike
V6W1152-BSD	6W27294.D	11/28/22	14:36	02:38	Blank Spike Duplicate
V6W1152-MB	6W27296.D	11/28/22	15:57	03:59	Method Blank
ZZZZZZ	6W27297.D	11/28/22	16:38	04:40	(unrelated sample)
ZZZZZZ	6W27299.D	11/28/22	17:44	05:46	(unrelated sample)
ZZZZZZ	6W27300.D	11/28/22	18:18	06:20	(unrelated sample)
ZZZZZZ	6W27301.D	11/28/22	18:52	06:54	(unrelated sample)
ZZZZZZ	6W27302.D	11/28/22	19:25	07:27	(unrelated sample)
ZZZZZZ	6W27303.D	11/28/22	19:59	08:01	(unrelated sample)
JD56027-4	6W27304.D	11/28/22	20:33	08:35	(used for QC only; not part of job JD59113)
JD56027-4DUP	6W27305.D	11/28/22	21:06	09:08	Duplicate
ZZZZZZ	6W27307.D	11/28/22	22:14	10:16	(unrelated sample)
ZZZZZZ	6W27308.D	11/28/22	22:48	10:50	(unrelated sample)
ZZZZZZ	6W27309.D	11/28/22	23:22	11:24	(unrelated sample)
ZZZZZZ	6W27310.D	11/28/22	23:56	11:58	(unrelated sample)
ZZZZZZ	6W27311.D	11/29/22	00:29	12:31	(unrelated sample)
ZZZZZZ	6W27312.D	11/29/22	01:03	13:05	(unrelated sample)
ZZZZZZ	6W27313.D	11/29/22	01:36	13:38	(unrelated sample)
ZZZZZZ	6W27314.D	11/29/22	02:10	14:12	(unrelated sample)
ZZZZZZ	6W27315.D	11/29/22	02:43	14:45	(unrelated sample)
ZZZZZZ	6W27316.D	11/29/22	03:16	15:18	(unrelated sample)
V6W1152-SCC	6W27320.D	11/29/22	05:29	17:31	Summa Cleaning Certification
V6W1152-SCC	6W27321.D	11/29/22	06:01	18:03	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1152-BFB	**Injection Date:**	11/28/22
Lab File ID:	6W27290.D	**Injection Time:**	11:58
Instrument ID:	GCMS6W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1152-SCC	6W27322.D	11/29/22	06:33	18:35	Summa Cleaning Certification
V6W1152-SCC	6W27323.D	11/29/22	07:07	19:09	Summa Cleaning Certification
V6W1152-SCC	6W27324.D	11/29/22	07:40	19:42	Summa Cleaning Certification
V6W1152-SCC	6W27325.D	11/29/22	08:13	20:15	Summa Cleaning Certification
V6W1152-SCC	6W27326.D	11/29/22	08:46	20:48	Summa Cleaning Certification
V6W1152-SCC	6W27327.D	11/29/22	09:19	21:21	Summa Cleaning Certification
V6W1152-SCC	6W27328.D	11/29/22	09:52	21:54	Summa Cleaning Certification
V6W1152-SCC	6W27329.D	11/29/22	10:26	22:28	Summa Cleaning Certification
V6W1152-SCC	6W27330.D	11/29/22	10:59	23:01	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V7W5-BFB
Lab File ID: 7W00090.D
Instrument ID: GCMS7W
Injection Date: 11/30/22
Injection Time: 09:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	15648	20.2		Pass
75	30.0 - 66.0% of mass 95	39362	50.9		Pass
95	Base peak, 100% relative abundance	77379	100.0		Pass
96	5.0 - 9.0% of mass 95	4703	6.08		Pass
173	Less than 2.0% of mass 174	502	0.65	(0.84) [a]	Pass
174	50.0 - 120.0% of mass 95	60048	77.6		Pass
175	4.0 - 9.01% of mass 174	4685	6.05	(7.80) [a]	Pass
176	93.0 - 101.0% of mass 174	59629	77.1	(99.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4038	5.22	(6.77) [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
V7W5-IC0005	7W00093.D	11/30/22	11:33	01:36	Initial cal 0.04
V7W5-IC0005	7W00094.D	11/30/22	12:06	02:09	Initial cal 0.1
V7W5-IC0005	7W00095.D	11/30/22	12:38	02:41	Initial cal 0.2
V7W5-IC0005	7W00096.D	11/30/22	13:09	03:12	Initial cal 0.5
V7W5-IC0005	7W00098.D	11/30/22	14:12	04:15	Initial cal 5
V7W5-ICC0005	7W00099.D	11/30/22	14:44	04:47	Initial cal 10
V7W5-IC0005	7W00100.D	11/30/22	15:16	05:19	Initial cal 20
V7W5-IC0005	7W00101.D	11/30/22	15:51	05:54	Initial cal 40
V7W5-IC0005	7W00102.D	11/30/22	16:26	06:29	Initial cal 50
V7W5-ICV0005	7W00105.D	11/30/22	17:59	08:02	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD59113
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V7W15-BFB	**Injection Date:**	02/02/23
Lab File ID:	7W00267.D	**Injection Time:**	09:27
Instrument ID:	GCMS7W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	16147	21.3		Pass
75	30.0 - 66.0% of mass 95	38608	50.9		Pass
95	Base peak, 100% relative abundance	75867	100.0		Pass
96	5.0 - 9.0% of mass 95	5200	6.85		Pass
173	Less than 2.0% of mass 174	611	0.81	(1.13) [a]	Pass
174	50.0 - 120.0% of mass 95	53861	71.0		Pass
175	4.0 - 9.01% of mass 174	4036	5.32	(7.49) [a]	Pass
176	93.0 - 101.0% of mass 174	53712	70.8	(99.7) [a]	Pass
177	5.0 - 9.0% of mass 176	3579	4.72	(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
V7W15-CC0005	7W00268.D	02/02/23	09:58	00:31	Continuing cal 10
V7W15-BS	7W00269.D	02/02/23	10:38	01:11	Blank Spike
V7W15-BSD	7W00270.D	02/02/23	11:10	01:43	Blank Spike Duplicate
V7W15-MB	7W00272.D	02/02/23	12:25	02:58	Method Blank
ZZZZZZ	7W00273.D	02/02/23	13:04	03:37	(unrelated sample)
ZZZZZZ	7W00274.D	02/02/23	13:36	04:09	(unrelated sample)
ZZZZZZ	7W00275.D	02/02/23	14:07	04:40	(unrelated sample)
ZZZZZZ	7W00276.D	02/02/23	14:39	05:12	(unrelated sample)
JD59143-13	7W00277.D	02/02/23	15:12	05:45	(used for QC only; not part of job JD59113)
JD59143-13DUP	7W00278.D	02/02/23	15:44	06:17	Duplicate
JD59113-1	7W00279.D	02/02/23	16:16	06:49	SVE-EFF
ZZZZZZ	7W00284.D	02/02/23	18:52	09:25	(unrelated sample)
ZZZZZZ	7W00285.D	02/02/23	19:23	09:56	(unrelated sample)
ZZZZZZ	7W00286.D	02/02/23	19:55	10:28	(unrelated sample)
ZZZZZZ	7W00288.D	02/02/23	20:58	11:31	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD59113
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
JD59113-1	2W63137.D	93
JD59113-1	7W00279.D	105
JD59143-13DUP	7W00278.D	113
JD59342-9DUP	2W63130.D	96
V2W2807-BS	2W63122.D	94
V2W2807-BSD	2W63123.D	93
V2W2807-MB	2W63127.D	92
V6W1152-SCC	6W27320.D	91
V7W15-BS	7W00269.D	104
V7W15-BSD	7W00270.D	108
V7W15-MB	7W00272.D	99
V6W1152-BS	6W27293.D	97
V6W1152-BSD	6W27294.D	97
V6W1152-MB	6W27296.D	92

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%