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Sent: Monday, February 11, 2019 11:46 AM

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Subject: Delavan Spray Technologies - Pre-Pilot Study High-Resolution Site Characterization Work Plan

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Hi, Regan.

Attached for your information is the Pre-Pilot Study High-Resolution Site Characterization Work Plan for the Delavan Spray Technologies Site. A hard copy of the report with an electronic copy on cd is being shipped to you via Federal Express today for delivery tomorrow. Please let me know if you have any questions.

Regards,
Leslee

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**SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION**

PRE-PILOT STUDY HIGH RESOLUTION SOURCE CHARACTERIZATION WORK PLAN

**Delavan Spray Technologies Site
4334 Main Highway
US Highway 301 South
Bamberg, South Carolina
Voluntary Cleanup Contract 13-4762-RP**

Prepared by:

AECOM Technical Services, Inc.
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February 2019

AECOM Project Number 60584969



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February 11, 2019

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

RE: Pre-Pilot Study High Resolution Site Characterization Work Plan
Delavan Spray Technologies Site
Bamberg, South Carolina
Voluntary Cleanup Contract 13-4762-RP
AECOM Project Number: 60584969

Dear Ms. Rahn:

On behalf of Delavan Spray Technologies (Delavan), AECOM Technical Services, Inc. (AECOM) is providing the South Carolina Department of Health and Environmental Control (SCDHEC) with one bound hard copy and one electronic copy (on compact disk) of the attached Pre-Pilot Study High Resolution Site Characterization Work Plan for the Delavan Spray Technologies Site.

Delavan and AECOM are prepared to begin this project upon SCDHEC approval of the work plan and issuance of a Monitoring Well Installation Approval. If you have any questions regarding this submittal or need any additional information, please feel free to contact us.

Sincerely,
AECOM Technical Services, Inc.

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Attachment

cc: William Penn – United Technologies Corporation
Melinda Washington – Delavan Spray Technologies
Leslee Alexander, PG – AECOM

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1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM), on behalf of Delavan, has prepared this Pre-Pilot Study High Resolution Site Characterization (HRSC) Work Plan (work plan) 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**). Previous assessments have documented chlorinated volatile organic compounds (cVOCs) in soil and groundwater related to their historic use at the facility. The site layout is illustrated on **Figure 2**. The primary compounds of concern are 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). Additional site background and history were reported in detail in Section 2.0 of the Remedial Investigation (RI) Report (AECOM, July 2014) and in the Fall 2018 Semi-Annual Groundwater Monitoring Report (AECOM, January 2019).

Delavan feels that it is prudent to address the elevated concentrations of cVOCs that have previously been detected in residual “source areas” beneath and adjacent to the manufacturing facility. Specifically, this includes “hot spots” in shallow groundwater near the two former PCE degreasers and the former PCE underground storage tank. As a result, a Focused Feasibility Study (FFS) was submitted to South Carolina Department of Health and Environmental Control (SCDHEC) on July 12, 2017 (AECOM, July 2017). The FFS was not requested by SCDHEC but rather was submitted pre-emptively so that, with SCDHEC concurrence, Delavan could begin steps to mitigate the source areas while delineation activities for the downgradient limestone aquifer continue.

As a first step in the process to address source area cVOC impacts, this work plan has been developed to conduct HRSC of the source area “hot spots” located beneath and immediately adjacent to the Facility using membrane interface probe / hydraulic profiling tool (MiHPT) technology. The results of the HRSC investigation will subsequently be used to update the current conceptual site model and to design a field-scale pilot study to test a potential remedial remedy at one of the identified residual source areas.

2.0 SCOPE OF WORK

Prior to preparing this work plan, a site visit was conducted to familiarize the AECOM Project Remediation Engineer with the site layout and to meet with the facility management. The site visit was conducted on September 26, 2018, and it included the AECOM Project Hydrogeologist, the AECOM Project Remediation Engineer, and the Delavan Site Engineer. During the site visit, AECOM personnel documented pertinent site features in the four residual source areas in order to improve the accuracy of the existing site map and to facilitate discussions with vendors for the MiHPT work.

The proposed pre-pilot study HRSC investigation activities are described in the following subsections.

2.1 Monitoring Well Approval and Utility Clearance

A monitoring well approval will be obtained from SCDHEC for the temporary borings and monitoring wells anticipated to be installed. A monitoring well permit application and proposed well construction details are included in **Appendix A**. If additional borings or monitoring wells are deemed necessary based on an evaluation of the field data, SCDHEC will be contracted for authorization to install additional borings / wells to complete the HRSC.

Upon approval of this work plan and issuance of the monitoring well approval by SCDHEC, the proposed HRSC field activities will be scheduled.

Prior to subsurface intrusive work, available facility drawings will be reviewed and knowledgeable personnel (e.g., site engineer and maintenance personnel) will be interviewed. The South Carolina One-Call public utility service will be contacted to mark all public utilities at the site in the area of the investigation. A private utility locator will also be contracted to confirm the one-call markings and to mark the location of potential private subsurface utilities in the areas of the proposed investigation. The private utility location service will use ground penetrating radar (GPR) and/or other methods to perform a subsurface scan for underground utilities and obstructions that may be located beneath the area of investigation. Prior to subsurface activity at each investigation location, absence of utilities will be verified with a hand auger from the existing ground surface down to a depth of five feet.

2.2 Membrane Interface Probe/Hydraulic Profiling Tool Investigation

The MiHPT consists of a probe/trunk line system that is used in conjunction with conventional direct push technology (DPT) equipment. Using DPT, the MiHPT probe is inserted into the targeted investigation zone using DPT, and the information collected by the probe is continuously conveyed to the surface via the connected trunk line. The MiHPT probe combines membrane interface probe (MIP), electrical conductivity (EC), and hydraulic profiling tool (HPT) technologies.

The MIP portion of the probe provides real-time detection of volatile organic compounds (VOCs) in the vadose and saturated zones. The tool tip has a membrane that is permeable to VOCs and a built-in heating element that causes VOCs near the MIP to volatilize from the impacted soil or groundwater. The volatilized VOCs subsequently pass through the semi-permeable membrane where a carrier gas (usually nitrogen) transports the volatilized VOCs through sealed tubing to the gas phase detectors located on the surface. The gas phase detectors include a Flame Ionization Detector (FID) and/or Photo Ionization Detector (PID) and a halogen-specific detector (XSD). The FID and PID are non-specific VOC detectors while the XSD is specifically used for the detection of halogenated VOCs (i.e., cVOCs).

The gas detectors measure total VOCs and total cVOCs in the carrier gas and provide this information in real-time as an instrument response. The detectors do not provide a quantitative concentration of VOCs in the soil or groundwater. However, the response level from the detectors corresponds to the amount of VOCs and cVOCs present in the carrier gas, which is proportional to the amount of VOCs and cVOCs in the soil or groundwater at the MIP boring location. A greater response from the detector indicates greater VOC concentrations present in the subsurface. To quantify the MIP results, a select number of soil and groundwater samples will be collected for cVOC analysis.

The EC array located at the bottom of the MiHPT probe continuously measures soil conductivity and reports this parameter along with the output from the VOC detectors. The conductivity of the soils is used to determine soil composition (cohesive materials produce a higher EC response and granular materials produce a lower EC response).

Finally, the HPT portion of the MiHPT probe measures the pressure required to inject a known flow of water into soil as it is advanced into the subsurface. The HPT uses a sensitive, downhole transducer to measure the pressure response of the saturated soil to injection of water and produces continuous, real-time profiles of soil hydraulic properties. This information can then be used to determine where permeable zones and potential preferential contaminant flow pathways exist.

2.2.1 HRSC Investigation Overview

There are four identified residual source areas to be investigated using HSRC via MiHPT technology (**Figure 2**). These areas include:

- Former Northern PCE Degreaser (vicinity of MW-19);
- Former Southern PCE Degreaser (vicinity of MW-20);
- Former Eastern PCE Secondary Containment Area (vicinity of MW-1); and
- Former PCE Underground Storage Tank (UST) Area (vicinity of MW-21).

The primary objectives of the proposed pre-pilot study HRSC investigation using MiHPT include:

- Identify the source area subsurface locations where the highest concentrations of residual cVOCs reside;
- Determine subsurface permeability information where the highest concentrations of residual cVOCs reside;
- Understand the zones of high and low contaminant mass flux and potential transport pathways; and
- Estimate the lateral extent of cVOCs in subsurface soils beneath the four respective source areas. This estimate will be used as a basis for cVOC mass in the pilot study design. The “limits” defining the lateral extent are a judgement-based call, qualified by the sensitivity of the MIP detectors and defined by the relative cVOC occurrence in soils and groundwater from beneath each source area, as compared concentrations in other up-gradient and down-gradient soil borings.

Investigation at the four residual source areas will be conducted using a combination of Geoprobe® rigs. Because the former northern and southern PCE degreaser units are located within the active Delavan manufacturing facility, access will be limited to a dolly-mounted Geoprobe® unit and/or a Geoprobe® 54LT rig. Outside of the facility, a larger Geoprobe® such as a 6712DT may potentially be used. The targeted interval for the HRSC investigation at the four areas will be from the ground surface (outside of the facility) or from immediately below the concrete surface (inside of the facility) down to contact with the underlying deep aquifer limestone layer (approximately 30 to 35 feet below ground surface [bgs]) or to DPT refusal, whichever comes first.

Up to 31 MiHPT points will be completed as part of this investigation. **Figure 3** illustrates the locations of the proposed MiHPT points. **Table 1** presents an overview of all proposed MiHPT locations and environmental samples to be collected as part of the HRSC. The actual number of MiHPT points and their final locations will be dependent on the field conditions encountered as well as the associated near real-time MiHPT results. One MiHPT point is planned to be converted to permanent groundwater monitoring well. Located downgradient of MW-19 and the former northern degreaser, the monitoring well will facilitate future performance monitoring of pilot testing and remediation activities. Section 2.5 provides monitoring well installation and development details. Initially, one background location (MIP-100-BG) will be investigated along the eastern site property boundary near MW-4 in order to calibrate the MIP equipment.

Field data acquisition methodologies are designed to be in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Science and Ecosystem Support Division (SESD) Field Branches Quality System and Technical Procedures document (<http://www.epa.gov/region4/sesd/fbqstp/>) (most recent version). To be consistent with the RI, those specific field methods, analytical procedures, and quality assurance/quality control (QA/QC) procedures

applicable to the scope of work will follow those presented in Section 1 (Field Sampling and Analysis) and Section 2 (Field Quality Assurance Samples) of Appendix B to the RI Work Plan (Hart & Hickman, August 2013).

A summary of the proposed MiHPT, soil, and groundwater sampling locations by residual source area is presented in the following subsections (Note – the exact locations of the MiHPT, soil and groundwater sample locations may be shifted in the field based on accessibility and MiHPT investigation results).

2.2.2 Former Northern PCE Degreaser Activities (Vicinity of MW-19)

Between 2012 and 2015, nine soil borings were installed in the vicinity of the former northern degreaser to characterize the nature and extent of cVOC impacted soils (Hart & Hickman, 2006; AECOM, 2014, 2016). Fifteen soil samples were collected from these borings and 14 of these had detected concentrations of PCE that exceeded the USEPA's maximum contaminant level (MCL) -based soil screening level (SSL) for PCE (0.0023 milligrams per kilogram [mg/kg] in November 2015), indicating a potential for concentrations of PCE in soil to leach into groundwater at concentrations greater than the MCL (see **Appendix C** for maps of historic soil sampling results). One surficial aquifer monitoring well (MW-19), screened from 5 feet to 20 feet below ground surface (BGS), was installed immediately north of the former PCE degreaser at the boring with the highest detected PCE concentrations (85.4 mg/kg in DPT-35). Since MW-19 was installed in 2014, groundwater PCE concentrations in this monitoring well have varied from 3,470 micrograms per liter (µg/L) to 34,600 µg/L, with the most recent concentration of 21,500 µg/L in October 2018. The detected PCE concentrations in MW-19 are typically one of the two highest detected PCE concentrations in each monitoring event and, along with the detected PCE concentrations in soil, provide strong evidence that residual PCE in this area is contributing to the PCE-impacted groundwater beneath the Site.

Based on the information compiled to date, the former northern PCE degreaser is the likely location for the proposed future field-scale pilot study. Therefore, the collected HRSC information will be used to optimize the source area pilot study remedial design and to provide the necessary information to estimate the costs to complete the pilot study. Because of the overall importance of this information for the final pilot study design, up to nine MiHPT investigation locations are proposed for the former northern PCE degreaser area (**Figure 3** and **Table 1**). Two of the locations (MIP-101 and MIP-102) will be located within the immediate vicinity of the former northern PCE degreaser unit and monitoring well MW-19, respectively. Up to six additional, upgradient MiHPT step-out locations may be investigated (MIP-103 through MIP-108). Three of these step-outs (MIP-103 through -105) are proposed to be approximately 15 feet upgradient from the source area MIP locations. Based on the real-time MIP results from these locations, two additional MIP locations (MIP-106 and -107) are proposed 15 feet upgradient (30 feet upgradient of the source area). One additional location (MIP-108) may also be investigated 15 feet upgradient of MIP-106 and MIP-107 depending on the previous MiHPT step-out results.

One downgradient MiHPT boring (MIP-109) will be investigated approximately 30 feet downgradient of the source area. This boring location will subsequently be converted into a permanent monitoring well location so that it can be used as a future pilot study performance monitoring point (Note – the location of MIP-109 may be shifted in the field based on rig-accessibility and the results of MIP-101 and -102).

To quantify the MIP results and to provide remedial design information (e.g., horizontal extent of residual cVOCs, locations of the highest concentrations of cVOCs, and identification of transmissive zones) for the proposed pilot study at the former northern PCE degreaser, up to four direct push soil sampling locations will be investigated. By quantifying the MIP results and using them in conjunction with the collected subsurface permeability information, the targeted emplacement of the selected remedial reagent within the subsurface can be designed and the quantity of the selected reagent required to treat the source area can be optimized. This sampling approach will ultimately result in less time for reagent emplacement and less quantity of reagent being required for the pilot study when compared to the more typical, generic approach of treating the entire impacted interval.

Two of the DPT soil sample borings (DPT-101 and DPT-102) will be co-located immediately adjacent to the source area MiHPT points. One soil boring location (DPT-104) will be co-located next to MIP-104, and one soil boring will be located next to the farthest upgradient step-out boring (i.e., adjacent to MIP-106, -107, or 108) from the former northern degreaser area (**Figure 3, Tables 1 and 2**). Further description of the DPT soil sampling process is presented in Section 2.3.

In addition to the soil samples, groundwater grab samples will be collected from two locations (DPT-GW-101 and DPT-GW-108). Because the source area well (MW-19) for the former northern PCE degreaser is only screened from 5 to 20 feet bgs, there exists uncertainty as to the concentration of PCE at the groundwater contact with the underlying limestone. Since PCE is heavier than water, DPT-GW-101 will be collected near the former degreaser to determine the concentration of PCE in groundwater at its contact with the underlying limestone. A DPT groundwater sample (labeled DPT-GW-108 in Tables 1 and 3) will be co-located next to a step-out boring that is located farthest away from the source area. This groundwater DPT sample will be collected at the depth of the highest XSD detector response in the co-located MiHPT boring (**Tables 1 and 3**). The MIP, soil and groundwater quality data will be used to define the “limits” (lateral extent) of cVOCs in this residual source area. Further description of the DPT groundwater sampling process is presented in Section 2.4.

Because in-situ chemical oxidation (ISCO) will potentially be pilot tested at this area, saturated soil samples will be collected from DPT-101 (co-located with MIP-101) for total oxidant demand (TOD) persulfate and TOD permanganate testing (**Tables 1 and 2**). Groundwater from grab sample DPT-GW-101 (co-located with MIP-101 and DPT-101) will also be collected as part of the TOD testing (**Tables 1 and 3**). The soil TOD samples will be collected from the co-located MiHPT boring interval that exhibits the highest XSD detector response. These soil and groundwater locations were identified for TOD testing because they are located near the former northern PCE degreaser, and therefore, they should exhibit the some of the highest TOD at the site. The new TOD results can then be used in conjunction with

previously collected background TOD information to develop a site TOD value for the pilot study and for other potential source area remediation activities.

Groundwater grab samples will also be collected for analysis of total and dissolved manganese from DPT-GW-01 in the source area and from the furthest upgradient DPT groundwater sample location (labeled DPT-GW-108 on **Table 3**). There is a potential for manganese dioxide precipitation to occur during the application of permanganate. The total and dissolved manganese sample results will be used to provide potential permanganate vendors with information to be considered as they calculate their proposed dosing for the pilot study.

2.2.3 Former Southern PCE Degreaser (Vicinity of MW-20)

Between 2012 and 2014, five soil borings were installed in the vicinity of the former southern degreaser to characterize the nature and extent of cVOC impacted soils (Hart & Hickman, 2012; AECOM, 2014). Six soil samples were collected from these borings and five of these had detected concentrations of PCE that exceeded the USEPA's MCL-based SSL for PCE (0.0023 mg/kg in May 2014; see **Appendix C** for maps of historic soil sampling results). One surficial aquifer monitoring well (MW-20) was installed immediately south of the former PCE degreaser, immediately downgradient (south) of DPT-4, which had the highest detected PCE concentrations in this area (0.659 µg/L). Monitoring well MW-20 was installed with a shallower screen interval (5-15 feet BGS) than MW-19 because it was installed with a hand auger due to access restrictions and fixed equipment in the area. Since MW-20 was installed in 2014, groundwater PCE concentrations in this monitoring well have been relatively stable, varying from 438 µg/L to 648 µg/L with the most recent concentration of 462 µg/L in October 2018. Detected concentrations of PCE in soil and groundwater indicate that there is less residual PCE mass associated with the former southern PCE degreaser as compared to the former northern PCE degreaser; however, it is unknown if concentrations increase with depth in the surficial aquifer due to access restrictions which have prevented the use of a drill rig in this area.

Up to seven MiHPT investigation locations are proposed for the former southern PCE degreaser area (**Figure 3** and **Table 1**). MIP-110 will be located within the immediate vicinity of the former southern PCE degreaser unit. Up to six additional MiHPT step-out locations may subsequently be investigated (MIP-111 through MIP-116). Four of these step-outs (MIP-111 through MIP-114) are proposed to surround MIP-110 (about 15 feet away) for source area delineation. An additional two step-out locations (MIP-115 and MIP-116) may also be necessary to complete delineation in the upgradient direction for future remediation design.

To quantify the MIP results, up to two direct push soil sampling locations will be investigated. One of the DPT soil sample borings (DPT-110) will be co-located immediately adjacent to the source area MiHPT boring (MIP-110), and the second soil boring location (DPT-116) will be co-located next to the farthest step-out boring from the former southern degreaser area (**Tables 1 and 2**). Further description of the DPT soil sampling process is presented in Section 2.3.

In addition to the soil samples, groundwater grab samples will be collected from two locations (DPT-GW-110 and DPT-GW-116). Because the source area well (MW-20) for the former southern PCE degreaser is only screened from 5 to 15 feet bgs, there exists uncertainty as to the concentration of PCE at the groundwater contact with the underlying limestone. DPT-GW-110 will be collected near the former degreaser to determine the concentration of PCE in groundwater at its contact with the underlying limestone. DPT-GW-116 will be co-located next to a step-out boring that is located farthest away from the source area. This groundwater DPT sample will be collected at the depth of the highest XSD detector response in the co-located MiHPT boring (**Tables 1 and 3**). The MIP, soil and groundwater quality data will be used to define the “limits” (lateral extent) of cVOCs in this residual source area. Further description of the DPT groundwater sampling process is presented in Section 2.4.

2.2.4 Former Eastern PCE Secondary Containment Area (Vicinity of MW-1)

In 2005, Hart & Hickman injected Hydrogen Release Compound® (HRC) into shallow groundwater at 12 locations in the vicinity of MW-1 and the former eastern PCE secondary containment area to stimulate natural biodegradation of chlorinated compounds in groundwater (**Appendix C** and Hart & Hickman, 2006). Post-injection monitoring was conducted by H&H between 2005 and 2007. While concentrations of PCE have decreased in monitoring well MW-1 subsequent to the injections, it is doubtful that these decreases are attributable to injection activities. Groundwater geochemistry in the surficial aquifer is not favorable to biodegradation due to the low pH and elevated oxidation-reduction potential (ORP) and geochemical conditions in the vicinity of MW-1 were not affected by the HRC injection. PCE concentrations in MW-1 have decreased at relatively slow rate, from 15,000 µg/L in June 2003 to 277 µg/L in October 2018, and it is likely that decreases in PCE at MW-1 are due to natural attenuation processes such as dilution and dispersion.

Eleven soil borings were installed in the vicinity of the former eastern PCE secondary containment area to characterize the nature and extent residual cVOCs in soils (Hart & Hickman, 2012). Thirteen soil samples were collected from these borings and eight of these had detected concentrations of PCE that exceeded the USEPA’s MCL-based SSL for PCE (0.0023 mg/kg in May 2014; see **Appendix C** for maps of historic soil sampling results). Detected concentrations of PCE in soil and groundwater indicate that there is less residual PCE mass associated with the former eastern PCE secondary containment area as compared to the former northern PCE degreaser. Elevated PCE concentrations above the MCL in monitoring well MW-3D (432 µg/L in October 2018), which is located downgradient (south) of MW-1 indicate impacts to the deeper limestone aquifer which may be affected by residual cVOCs in the vicinity of the former eastern PCE secondary containment area or other upgradient residual source areas.

Up to seven MiHPT investigation locations are proposed for the former eastern PCE secondary containment area (**Figure 3** and **Table 1**). One location (MIP-117) will be located within the center of the former containment area. Four MiHPT locations (MIP-118 through MIP-121) are proposed to surround the former eastern PCE secondary containment area (each approximately 15 feet away from the center of the containment area) with the eastern step-out located between the former secondary containment area and

MW-1. Two additional MiHPT locations (MIP-122 and MIP-123) will be located about 15 feet upgradient of MW-1.

To quantify the MIP results, up to two direct push soil sampling locations will be investigated. One of the DPT soil sample borings (DPT-117) will be co-located immediately adjacent to MIP-117. The second soil boring location (DPT-122/123) will be co-located next to either MIP-122 or MIP-123, depending on the field results (**Tables 1 and 2**). Further description of the DPT soil sampling process is presented in Section 2.3.

In addition to the soil samples, groundwater grab samples will be collected from two locations (DPT-GW-117 and DPT-GW-122/123). MW-1 is located to the immediate east of the former eastern PCE secondary containment area and is only screened from 3 to 18 feet bgs. As a result, there exists uncertainty as to the concentration of PCE at the groundwater contact with the underlying limestone. DPT-GW-117 will be collected near MIP-117 and DPT-117 to determine the concentration of PCE in groundwater at its contact with the underlying limestone. DPT-GW-122/123 will be co-located next to either MIP-122 or MIP-123, depending on the field results and numbered accordingly. This groundwater DPT sample will be collected at the depth of the highest XSD detector response in the co-located MiHPT boring (**Tables 1 and 3**). The MIP, soil and groundwater quality data will be used to define the “limits” (lateral extent) of cVOCs in this residual source area. Further description of the DPT groundwater sampling process is presented in Section 2.4.

2.2.5 Former PCE UST Area (Vicinity of MW-21)

Eight soil borings were installed between 2012 and 2014 in the vicinity of the former PCE UST to characterize the nature and extent of cVOC impacted soils (Hart & Hickman, 2012; AECOM, 2014). Nine soil samples were collected from these borings and four of these had detected concentrations of PCE that exceeded the USEPA’s MCL-based SSL for PCE (0.0023 mg/kg in May 2014; see **Appendix C** for maps of historic soil sampling results). One surficial aquifer monitoring well (MW-21) was installed adjacent to the former PCE UST, immediately downgradient (south) of the outside wall of the Facility. Monitoring well MW-21 was installed with a deeper screen interval (19-34 feet BGS), immediately above the contact with the limestone aquifer, based on soil screening results from the photo-ionization detector (PID) during drilling (AECOM, 2014). With the exception of one anomalously low PCE concentration in October 2016, detected PCE concentrations have ranged from 13,200 µg/L to 25,600 µg/L since the well was installed in March 2014. The concentration in October 2018 was 23,300 µg/L. Similar to MW-19, concentrations detected in MW-21 are typically one of the two highest values during each monitoring event and are likely affected by residual cVOC concentrations in both former PCE degreasers as well as the former PCE UST. A deeper limestone aquifer monitoring well (MW-21D) was installed downgradient (south) of MW-21 in the facility parking lot. Detected concentrations of PCE in MW-21D are above the MCL, with a concentration of 357 µg/L detected in October 2018, indicating impacts to the deeper limestone aquifer from residual cVOCs in the upgradient areas.

Up to seven MiHPT investigation locations are proposed for the former PCE UST area (**Figure 3** and **Table 1**). One location (MIP-124) will be located within the footprint of the former UST tank. Four MiHPT locations (MIP-125 through MIP-128) are proposed to surround the former UST footprint (each approximately 15 feet away from the center of the former UST area). One MiHPT location (MIP-129) will be located 15 feet upgradient from MIP-125, and one MiHPT location (MIP-130) will be located about 15 feet downgradient of MIP-127 and MIP-128.

To quantify the MIP results, up to two direct push soil sampling locations will be investigated. One of the DPT soil sample borings (DPT-124) will be co-located immediately adjacent to MIP-124 in the middle of the former UST tank area. The second soil boring location (DPT-129) will be co-located next to MIP-129 (**Tables 1 and 2**). Further description of the DPT soil sampling process is presented in Section 2.3.

In addition to the soil samples, groundwater grab samples will be collected from two locations (DPT-GW-124 and DPT-GW-129). DPT-GW-124 will be collected near MIP-124 and DPT-124 to determine the concentration of PCE in groundwater at its contact with the underlying limestone. DPT-GW-129 will be co-located next to MIP-129 and DPT-129. This groundwater DPT sample will be collected at the depth of the highest XSD detector response in the co-located MiHPT boring (**Tables 1 and 3**). The MIP, soil and groundwater quality data will be used to define the “limits” (lateral extent) of cVOCs in this residual source area. Further description of the DPT groundwater sampling process is presented in Section 2.4.

2.3 Soil DPT Sample Collection and Analysis

Vadose zone soil and saturated soil samples will be collected from select borings within each of the four residual source areas (**Tables 1 and 2**). At each DPT boring, soil cores will be collected continuously every five feet beginning from 5 feet bgs down to the terminal depth of the co-located MiHPT point. Dual tube soil samplers or Geoprobe® Macro-Core® acetate sleeves will be used to collect the soil cores. Upon collection, the soil cores will be logged in the field using the Unified Soil Classification System and field screened using an FID or PID. Soil samples will subsequently be collected from within each 5-foot interval and submitted to the selected laboratory in accordance with the protocol presented in Section 2.7.

As previously described in Section 2.2.2, soil samples will also be collected from near the former northern PCE degreaser and tested for TOD persulfate and for TOD permanganate. These soil samples will be submitted for TOD testing by Redox Tech, LLC in Cary, North Carolina. TOD sample collection requirements are provided in **Appendix B**.

2.4 Groundwater DPT Sample Collection and Analysis

If conditions allow, groundwater samples will be collected using low flow/low stress sampling methods in accordance with the RI Work Plan (Hart & Hickman, August 2013) and USEPA's Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (EPA/540/S-95/504 dated April 1996) and as described in Appendix B of the RI Work Plan.

Groundwater grab samples will be collected from each of the four residual source areas (**Tables 1 and 3**). For collection of these samples, a Geoprobe® Screen Point 16 Groundwater Sampler (screen point) will be used. The screen point sampler is threaded onto the leading end of a probe rod and advanced into the subsurface with the DPT rig. The screen remains sealed in a sleeve as it is pushed down to the desired depth whereupon the sleeve is retracted exposing the screen to the surrounding groundwater. After the screen point sampler is opened, polyethylene tubing will be inserted through the rods to the bottom of the screen point sampler. The tubing will then be connected to a flow-through cell and peristaltic pump.

If the groundwater recharge rate allows, at least one rod volume is purged prior to groundwater sample collection. Groundwater is brought to the surface by pumping with the peristaltic pump. The duration of the purge depends on aquifer conditions and will be determined by an AECOM field geologist. After purging, the screen point groundwater samples will be collected directly into pre-preserved sample containers. The sample containers will be filled by allowing the discharge to flow gently down the inside of the sample collection container with minimal turbulence. Following collection, the groundwater samples will be submitted to the selected analytical laboratory (Accutest Laboratories Southeast in Orlando, Florida), in accordance with the protocol presented in Section 2.7.

2.5 Monitoring Well Installation and Development

As described in Section 2.2.2, one MiHPT boring location (MIP-109) will be converted into a permanent groundwater monitoring well to monitor future pilot testing downgradient of the former location of the northern degreaser. This monitoring well (to be designated MW-33) will be constructed using 1-inch diameter polyvinyl chloride (PVC) pipe with a 0.010-inch machine slot, pre-packed well screen. The length of screen and targeted depth for installation of the well screen will be based on the MiHPT results.

The annulus around the well screen will be filled with clean filter sand to approximately 1 to 2 feet above the top of the well screen. A minimum two-foot thick layer of bentonite clay chips will be used to seal the monitoring point and hydrated with potable water, as necessary. A neat cement-bentonite grout will be installed from above the bentonite seal to within approximately 6-inches below the finished concrete floor or surface. The surface completion for the 1-inch monitoring well will consist of a 4-inch diameter cast-iron vault with a bolt down lid. Within the facility, the vault will be flush-mounted into the core hole and grouted in place flush with the floor using high strength concrete. Soil cuttings and decontamination fluids will be managed as investigation-derived waste (IDW), as described in Section 2.10.

Upon installation, the groundwater monitoring well will be developed so that it produces representative groundwater samples. The monitoring well will be developed by AECOM personnel by surging and purging with either a peristaltic pump or a Waterra™ pump. Groundwater indicator parameters (e.g. temperature, specific conductivity, dissolved oxygen, pH, oxygen reduction potential, and turbidity) will be measured using a water quality meter and recorded on an AECOM Monitoring Well Development log. Development of the monitoring well will continue until parameters have stabilized to within 10% (0.2

standard units for pH) and the turbidity of the water is reduced as much as possible. Purge water from well development will be managed as IDW, as described in Section 2.10.

2.6 Sample Location Survey

All MiHPT, soil, groundwater and monitoring well locations installed as part of the HRSC will be surveyed by an AECOM professional land surveyor (PLS) licensed in South Carolina. Horizontal locations will be reported in South Carolina State Plane Coordinates referenced to the North American Datum of 1983 (NAD-83) to the nearest 0.01 foot. Ground surface/ floor elevations and well top of casing elevations will be referenced to the North American Vertical Datum of 1988 (NAVD-88) to the nearest 0.01 foot. The survey information will be updated to summary tables and the site base map.

2.7 Sample Analysis and Management

Field investigation samples will be appropriately managed from the time of collection through the time of relinquishment to ensure sample quality and representativeness. Each sample will be assigned a unique sample ID for tracking purposes (see **Tables 1, 2 and 3**). Sample labels will be affixed to each sample container to identify the sample, the date and time of collection, site name, the lab analyses, preservative if any, sample type, and the field personnel who collected the sample. Samples will be placed on ice immediately after collection. Chain-of-custody forms and samples will be packed in coolers with ice. Custody seals will be affixed to the lid interface of each cooler to ensure that the samples have not been tampered with.

QA/QC samples for soil and/or groundwater will include trip blanks, rinseate blanks (i.e., equipment blanks), field duplicates and matrix spike/matrix spike duplicates (**Tables 2 and 3**). These samples will be collected as part of the additional assessment activities to assure that the means and methods are performed adequately to generate definitive environmental quality data.

Soil and groundwater samples to be analyzed for VOCs by USEPA Method 8260B will be shipped to Accutest Laboratories Southeast, a South Carolina-certified laboratory located in Orlando, Florida. Accutest is a UTC-preferred laboratory vendor providing analytical services to the environmental industry. Soil and groundwater samples to be analyzed for TOD will be shipped to Redox Tech, LLC in Cary, North Carolina.

2.8 Equipment Decontamination

Equipment decontamination activities will be conducted on field equipment that is exposed to site media to prevent cross-contamination and to have better confidence in the analytical results. Two types of equipment decontamination procedures will be implemented including one for reusable sampling equipment that is exposed to contaminated site media and one for non-sampling equipment. Reusable sampling equipment will be decontaminated using a 5-step decontamination process. Reusable

equipment may include spoons, trowels, and/or split spoon samplers, and down-hole pumps. Two buckets will be placed in secondary containment and the decontamination process will be completed in the following series:

- 1) removal of residual amounts of soils by wiping with disposable towels,
- 2) detergent bath and brush in potable water with Alconox/Liquinox soap,
- 3) initial potable water rinse bath,
- 4) final rinse with de-ionized water, and
- 5) air dry and wrap in aluminum foil.

Decontamination water will be changed out as needed.

Pressure washing/steam washing activities will be conducted for non-sampling equipment using a portable pressure/steam washer. Non-sampling equipment consisting of direct-push rods will be placed within secondary containment and pressure/steam washed to remove residual soil and chemicals from the equipment surface. All equipment decontamination residuals will be managed as IDW (Section 2.10).

2.9 Borehole Abandonment and Site Restoration

Following sampling, MIP/DPT boreholes that are not converted to monitoring wells will be plugged and abandoned using the following method. The portion of the saturated zone that remains open after pulling the DPT rods out from each boring will be abandoned by filled with bentonite chips or pellets at the end of each work day. Due to difficulties associated with placement of bentonite chips or pellets using a small diameter tremie pipe, the chips or pellets may be placed by pouring them directly into the borehole; however, during placement; the depth to the top of the bentonite will be monitored to assure that bridging does not occur. To expedite the HRSC, the unsaturated portion of the boreholes may be grouted at the end of each workday. A neat cement-bentonite grout will be installed from above the bentonite seal to within approximately 6-inches below the finished concrete floor within the Delavan facility or to land surface if drilling outside in non-paved areas. Temporary steel plates and flagging will then be placed over the floor penetrations for a minimum of 24-hours while the grout sets. Within the manufacturing facility or other paved areas, the floor penetrations will be plugged flush with the finished floor with high strength concrete as each of the four respective investigation areas are completed.

2.10 IDW Management

All solid and liquid waste generated during the field sampling activities will be designated as IDW. IDW generally consists of disposable personal protective equipment (PPE), soils from drilling and sampling, groundwater from well installations and sampling, and wash/rinse waters from equipment cleaning. The IDW will be collected and temporarily stored at an on-site location designated by the Delavan facility. PPE

will be disposed daily as non-hazardous solid waste in municipal trash collection containers. Soils and aqueous IDW will be temporarily containerized in Department of Transportation (DOT) -approved 55-gallon steel drums. The drums will be labeled and secured at the end of each day. Composite samples of the soils, groundwater, and decontamination water will be collected and analyzed for waste characterization. Soil IDW will be analyzed for toxicity characteristic leaching procedure (TCLP) VOCs by Method 8260B (**Table 2**). Aqueous IDW will be analyzed for TCL VOCs Method 8260B (**Table 3**). Following receipt of IDW characterization and monitoring well groundwater sampling data, AECOM will provide the information to Delavan facility personnel, who will coordinate the profiling, transportation and disposal of the IDW materials by a licensed disposal transporter/facility.

2.11 Health and Safety

Investigation-related activities will conform to the approved site-specific Health and Safety Plan (HASP; AECOM, August 2016). The HASP will be updated or amended, as necessary, to accommodate any potential hazards associated with new tasks that will occur during the planned investigation. A copy of the HASP will be reviewed by all AECOM and subcontractor personnel prior to conducting any HRSC investigation activities, and a copy of the HASP will be kept on site and made available during all planned investigation activities.

Upon mobilization, AECOM and subcontractor personnel will meet with Delavan facility environmental health and safety personnel to review the scope of work, individual tasks to be completed and the anticipated work schedule. Facility-specific protocols will be discussed and a point of contact identified. The field staff will briefly meet at the beginning of each work day to discuss the planned work, any newly identified hazards and lessons learned from the prior day. Based on these discussions, a task hazard analysis will be completed and acknowledged by the field staff each day.

3.0 REPORTING

Once this work plan has been approved by SCDHEC, AECOM will develop a schedule for the implementation of the pre-pilot study HRSC and soil/groundwater sampling activities. After completion of the field activities and receipt of the analytical data, a brief HRSC assessment report will be prepared in the form of a Technical Memorandum. The report will include a summary and evaluation of previous and current assessment activities conducted to evaluate the four historic cVOC source areas. Specifically, the Technical Memorandum will summarize the pre-pilot study HRSC investigation activities and include a description of the MiHPT sampling activities; soil boring and well logs; laboratory analytical data sheets; tabular summaries of the MIP, groundwater quality data and soil quality data; TOD results; and pertinent conclusions. Supporting figures will be developed to depict cVOC concentrations and distribution beneath the manufacturing facility and the water table surface. This data will then be used to prepare the final design and plan for the former northern degreaser area field-scale pilot study.

4.0 REFERENCES

- AECOM, July 3, 2014. *Remedial Investigation Report, United Technologies Corporation, Delavan Spray Technologies Site, 4334 Main Highway, Bamberg, South Carolina.*
- AECOM, May 17, 2016. *Post Remedial Investigation Report, United Technologies Corporation, Delavan Spray Technologies Site, 4334 Main Highway, US Highway 301 South, Bamberg, South Carolina, VCC 12-4762-RP.*
- AECOM, August 31, 2016. *Health and Safety Plan Remedial Investigation Activities, United Technologies Corporation, Delavan Spray Technologies Site, Bamberg, South Carolina.*
- AECOM, July 12, 2017. *Focused Feasibility Report, Delavan Spray Technologies Site, Bamberg, South Carolina.*
- AECOM, July 13, 2018. *Spring 2018 Semi-Annual Groundwater Monitoring Report, Delavan Spray Technologies Site, Bamberg, South Carolina.*
- AECOM, January 15, 2019. *Fall 2018 Semi-Annual Groundwater Monitoring Report, Delavan Spray Technologies Site, Bamberg, South Carolina.*
- Hart & Hickman, January 31, 2006, *Report of HRC Injection and Pre- and Post-Injection Ground Water Monitoring, Delavan Spray Technologies Facility, Bamberg, South Carolina, DHEC Site ID #02211.*
- Hart & Hickman, December 5, 2012, *Supplemental Site Assessment Report, Delavan Spray Technologies, Bamberg, South Carolina, DHEC Site ID #02211.*
- Hart & Hickman, August 1, 2013, *Remedial Investigation Work Plan, Delavan Spray Technologies Site, Bamberg, South Carolina, VCC 12-4762-RP.*
- USEPA, April 1996, *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (EPA/540/S-95/504).*

TABLES

TABLE 1
Analytical and Testing Program - All
Pre-Pilot Study High Resolution Site Characterization
Delavan Spray Technologies Site
Bamberg, South Carolina

MIP Sampling Location	Total cVOCs Hydraulic Cond MIP Probe	Corresponding Soil/Groundwater Sample ID	TCL VOCs (8260B)	TCLP VOCs (8260B)	TOD Permanganate	TOD Persulfate	Total and Dissolved Mn	Comments (1)
Background Area for MIP Calibration								
MIP-100-BG	X							Near background location MW-4.
Former Northern Degreaser Area - DPT Soil Samples, DPT Groundwater Samples, and TOD Samples								
MIP-101	X	DPT-101-X DPT-GW-101	X X		X X	X X	X	DPT soil samples to be collected from up to six separate intervals. Soil TOD sample collected from interval with highest XSD response. Groundwater sample to be collected at contact with limestone.
MIP-102	X	DPT-102-X	X					DPT soil samples to be collected from up to six separate intervals.
MIP-103	X							Step-out location, upgradient direction.
MIP-104	X	DPT-104-X	X					Step-out location, upgradient direction. DPT soil samples to be collected from up to six separate intervals.
MIP-105	X							Step-out location, upgradient direction.
MIP-106	X							Contingent step-out location, upgradient direction.
MIP-107	X							Contingent step-out location, upgradient direction.
MIP-108	X	DPT-108X (*) DPT-GW-108 (*)	X X				X	Contingent step-out location, upgradient direction. DPT soil samples will be located adjacent to furthest upgradient MIP and numbered accordingly. DPT soil samples to be collected from up to six separate intervals. DPT groundwater sample will be located adjacent to furthest upgradient MIP and numbered accordingly. Groundwater sample to be collected at interval with highest XSD response.
MIP-109	X	MW-33	X					Step-out location, downgradient direction. Monitoring Well MW-33 to be installed at the MIP-109 location.
Former Southern Degreaser Area - DPT Soil Samples and DPT Groundwater Samples								
MIP-110	X	DPT-110-X DPT-GW-110	X X					DPT soil samples to be collected from up to six separate intervals. Groundwater sample to be collected at contact with limestone.
MIP-111	X							
MIP-112	X							
MIP-113	X							
MIP-114	X							Step-out location, downgradient direction.
MIP-115	X							Step-out location, upgradient direction.
MIP-116	X	DPT-116-X DPT-GW-116	X X					Step-out location, upgradient direction. DPT soil samples will be located adjacent to furthest upgradient MIP and numbered accordingly. DPT soil samples to be collected from up to six separate intervals. DPT groundwater sample will be located adjacent to furthest upgradient MIP and numbered accordingly. Groundwater sample to be collected at interval with highest XSD response.
Former Eastern PCE Secondary Containment Area - DPT Soil Samples and DPT Groundwater Samples								
MIP-117	X	DPT-117-X DPT-GW-117	X X					DPT soil samples to be collected from up to six separate intervals. Groundwater sample to be collected at contact with limestone.
MIP-118	X							
MIP-119	X							
MIP-120	X							
MIP-121	X							
MIP-122	X							
MIP-123	X	DPT-123-X DPT-GW-123	X X					Contingent step-out location, upgradient direction. DPT soil samples will be located adjacent to furthest upgradient MIP and numbered accordingly. DPT soil samples to be collected from up to six separate intervals. DPT groundwater sample will be located adjacent to furthest upgradient MIP and numbered accordingly. Groundwater sample to be collected at interval with highest XSD response.
Former PCE Underground Storage Tank Area - DPT Soil Samples and DPT Groundwater Samples								
MIP-124	X	DPT-124-X DPT-GW-124	X X					DPT soil samples to be collected from up to six separate intervals. Groundwater sample to be collected at contact with limestone.
MIP-125	X							
MIP-126	X							
MIP-127	X							Step-out location, downgradient direction.
MIP-128	X							Step-out location, downgradient direction.
MIP-129	X	DPT-129-X DPT-GW-129	X X					DPT soil samples to be collected from up to six separate intervals. Groundwater sample to be collected at interval with highest XSD response.
MIP-130	X							Step-out location, downgradient direction.

Notes:

X - Depth of the base of sample interval. Soil samples to be collected from between 5-10 feet below ground surface, 10-15 ft bgs, 15-20 ft bgs, 20-25 ft bgs, 25-30 ft bgs, and 30-35 ft bgs.

(*) - To be located at the MIP boring furthest upgradient and numbered accordingly.

(1) - Locations may be adjusted in the field based on accessibility. Step-out locations may be adjusted based on real-time MIP results. Contingent step-out locations may be adjusted or not used, depending on real-time MIP results.

DPT - Direct Push Technology

ID - Identification

MIP - MIP/HPT

TCLP - Toxicity Characteristic Leaching Procedure

VOCs - Volatile Organic Compounds

GW - Groundwater

HPT - hydraulic profiling tool

MIP - membrane interface probe

TOD - Total Oxidant Demand

XSD - Halogen-Specific Detector

TABLE 2
Analytical and Testing Program - Soils
Pre-Pilot Study High Resolution Site Characterization
Delavan Spray Technologies Site
Bamberg, South Carolina

Proposed Soil Sample ID	TCL VOCs (8260B)	TCLP VOCs (8260B)	TOD Permanganate	TOD Persulfate	Comments
Former Northern Degreaser Area					
DPT-101-X	6		1	1	Soil TOD sample collected from interval with highest XSD response.
DPT-102-X	6				
DPT-104-X	6				
DPT-108-X	6				To be co-located at MIP boring furthest upgradient and numbered accordingly.
Former Southern Degreaser Area					
DPT-110-X	6				
DPT-116-X	6				To be co-located at MIP boring furthest upgradient and numbered accordingly.
Former Eastern PCE Secondary Containment Area					
DPT-117-X	6				
DPT-123-X	6				To be co-located at MIP boring furthest upgradient and numbered accordingly.
Former PCE Underground Storage Tank Area					
DPT-124-X	6				
DPT-129-X	6				
Quality Assurance/Quality Control Samples					
Trip Blank	5				one for each cooler shipped to the laboratory
Rinseate Blank	3				at 20% of sample total
Duplicate	3				at 20% of sample total
Matrix Spike	3				at 20% of sample total
Matrix Spike Duplicate	3				at 20% of sample total
Investigation Derived Waste Samples					
IDW Soil-01		2			Composite of soils from drilling/sampling.
IDW Soil-02		2			Composite of soils from drilling/sampling.

Notes:

X - Depth of the base of sample interval. Soil samples to be collected from up to 6 depth intervals, between 5-10 ft bgs, 10-15 ft bgs, 15-20 ft bgs, 20-25 ft bgs, 25-30 ft bgs, and 30-35 ft bgs.

bgs - below ground surface

DPT - Direct Push Technology

ID - Identification

IDW - Investigation-Derived Waste

TCLP - Toxicity Characteristic Leaching Procedure

TOD - Total Oxidant Demand

TCL - Target Compound List

VOCs - Volatile Organic Compounds

XSD - Halogen-Specific Detector

TABLE 3
Analytical and Testing Program - Groundwater
Pre-Pilot Study High Resolution Site Characterization
Delavan Spray Technologies Site
Bamberg, South Carolina

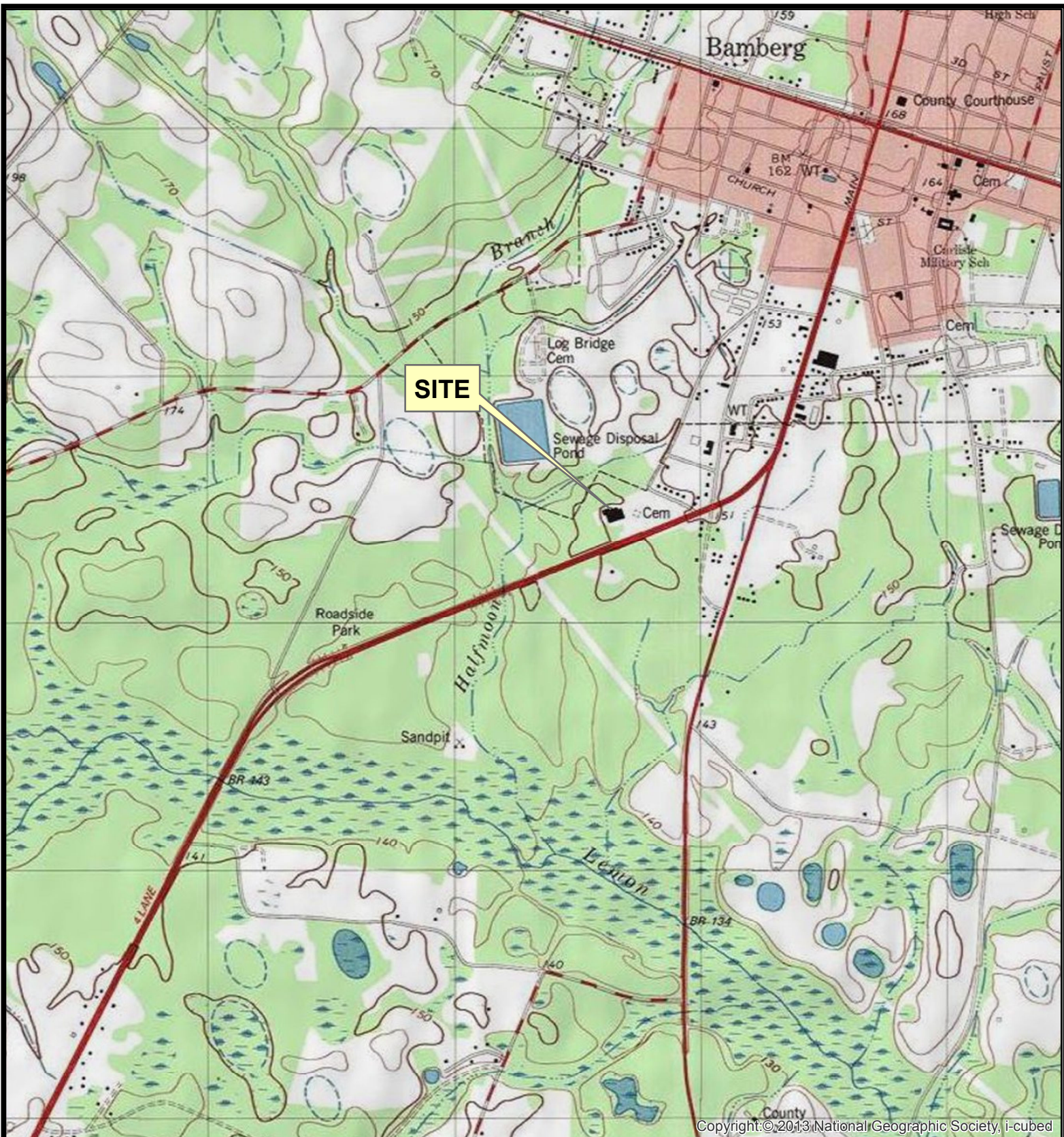
Proposed Groundwater Sample ID	TCL VOCs (8260B)	TOD Permanganate	TOD Persulfate	Total and Dissolved Mn	Comments
Former Northern Degreaser Area					
DPT-GW-101	1	1	1	1	Groundwater sample to be collected at contact with limestone.
DPT-GW-108	1			1	DPT groundwater sample will be located adjacent to furthest upgradient MIP and numbered accordingly. Groundwater sample to be collected at interval with highest XSD response.
MW-33	1				Monitoring Well MW-33 to be installed at the MIP-109 location.
Former Southern Degreaser Area					
DPT-GW-110	1				Groundwater sample to be collected at contact with limestone.
DPT-GW-116	1				DPT groundwater sample will be located adjacent to furthest upgradient MIP and numbered accordingly. Groundwater sample to be collected at interval with highest XSD response.
Former Eastern PCE Secondary Containment Area					
DPT-GW-117	1				Groundwater sample to be collected at contact with limestone.
DPT-GW-123	1				DPT groundwater sample will be located adjacent to furthest upgradient MIP and numbered accordingly. Groundwater sample to be collected at interval with highest XSD response.
Former PCE Underground Storage Tank Area					
DPT-GW-124	1				Groundwater sample to be collected at contact with limestone.
DPT-GW-129	1				Groundwater sample to be collected at interval with highest XSD response.
Quality Assurance/Quality Control Samples					
Trip Blank	3				one for each cooler shipped to the laboratory
Rinseate Blank	1				at 20% of sample total
Duplicate	1				at 20% of sample total
Matrix Spike	1				at 20% of sample total
Matrix Spike Duplicate	1				at 20% of sample total
Investigation Derived Waste Samples					
IDW Aqueous-01	1				Composite of temporary well development and purge water.
IDW Aqueous-02	1				Composite of temporary well development and purge water.
IDW Aqueous-03	1				Composite of decontamination water.

Notes:

DPT - Direct Push Technology
GW - Groundwater
ID - Identification
IDW - Investigation-Derived Waste
MIP - Membrane Interface Probe
Mn - Manganese

PCE - Tetrachloroethene
TCL - Target Compound list
TOD - Total Oxidant Demand
VOCs - Volatile Organic Compounds
XSD - Halogen Specific Detector

FIGURES



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

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

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

AECOM

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

Delavan Spray Technologies Site
Bamberg, South Carolina

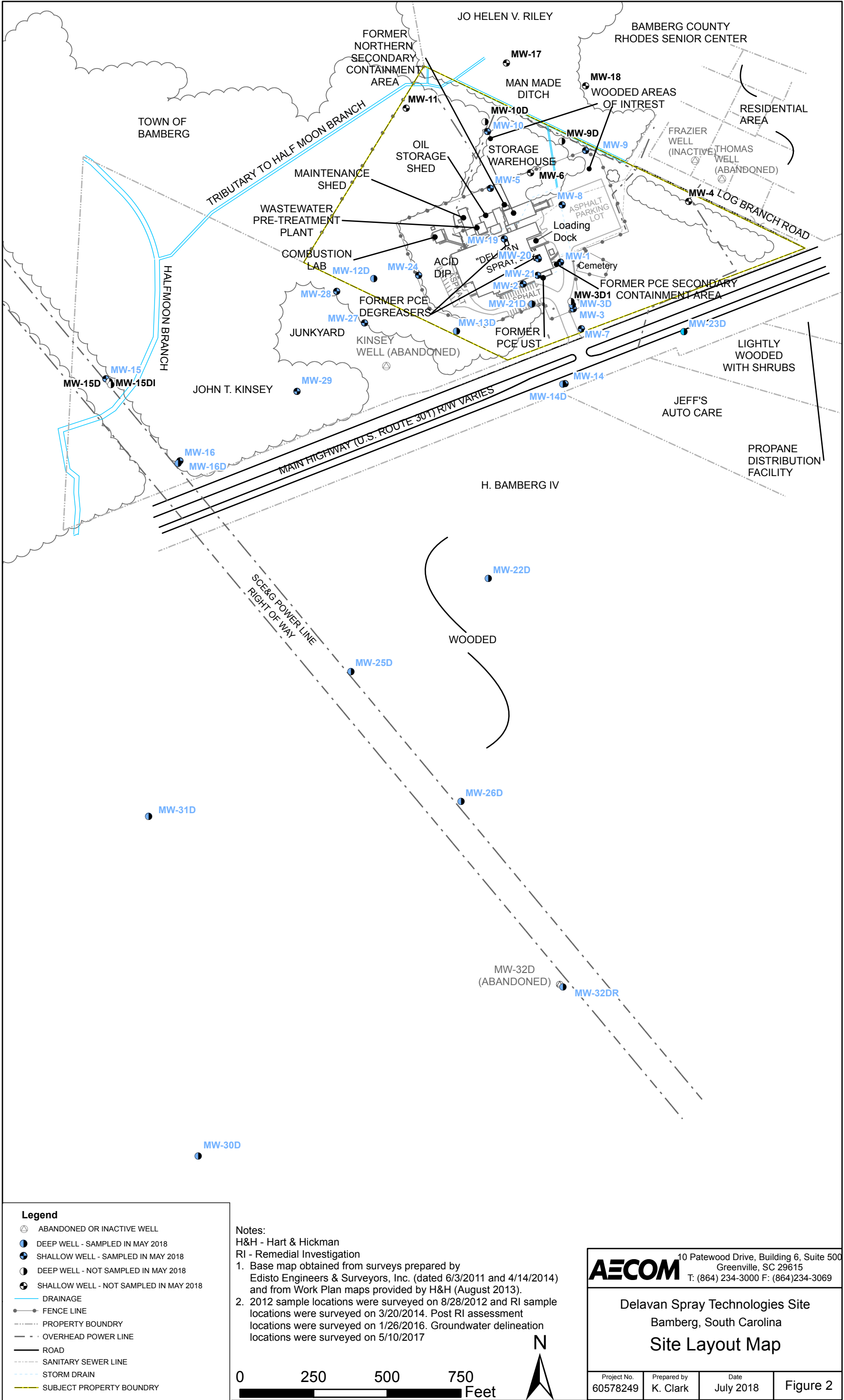
Site Location Map

Project No.
60578249

Prepared by
K. Clark

Date
July 2018

Figure 1



AECOM

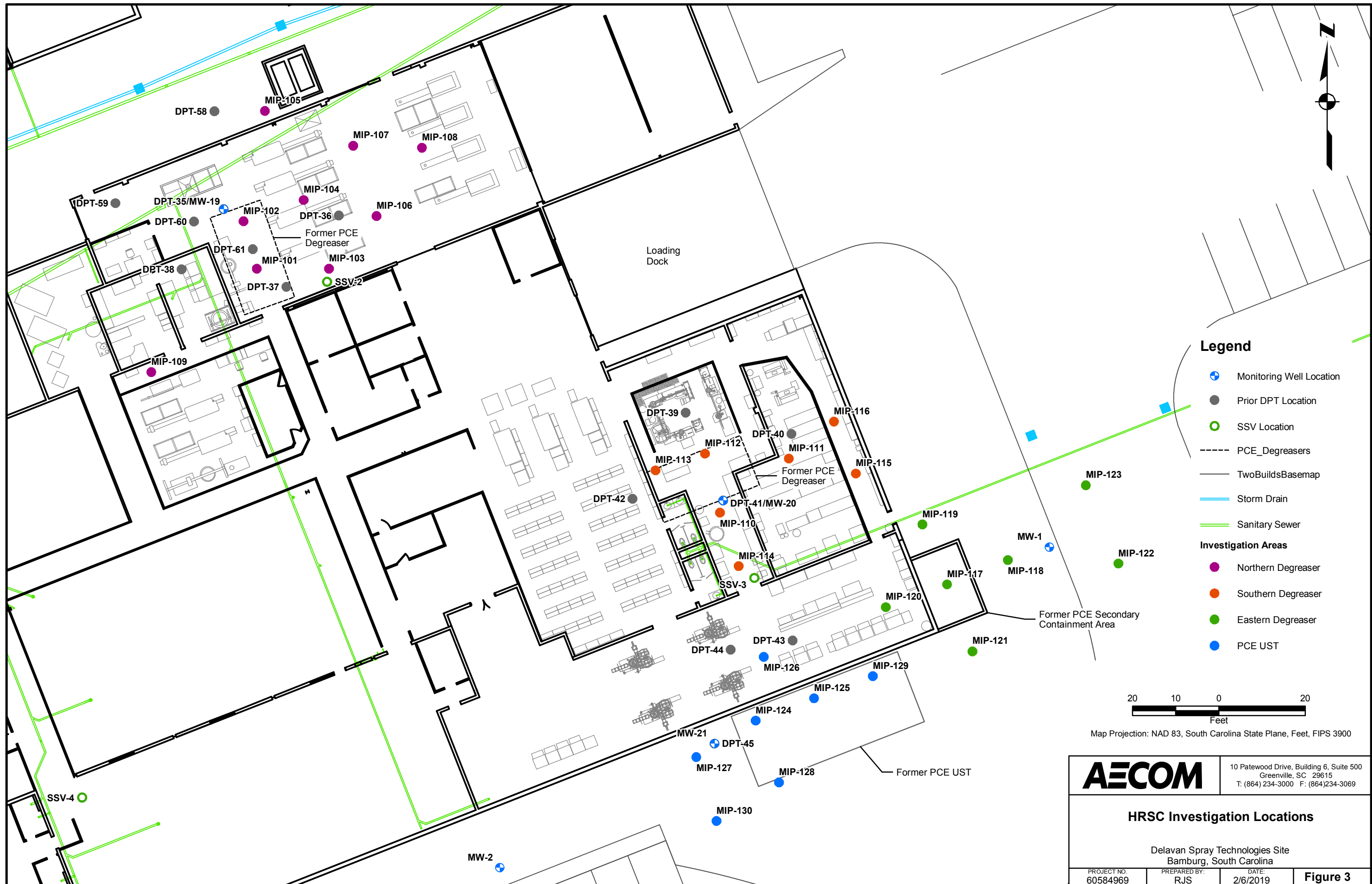
10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-3000 F: (864)234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Site Layout Map

Project No. 60578249	Prepared by K. Clark	Date July 2018	Figure 2
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Path: \\USGRN1FP001\Data\Projects\60314964\900-CAD-GIS\920 GIS-Graphics\Maps\Maps July 2018\Figure 2 Site Layout11x17.mxd



APPENDIX A

Monitoring Well Permit Application



Monitoring Well Application

1. Proposed Location of Monitoring Well(s):

Street Address: **4334 Main Highway**

City (including Zip): **Bamberg 29906**

County: **Bamberg**

Please attach Scaled Map or Plat Figure A-1

5. Intended Purpose of Well(s):

Pre-Purchase ☐

Investigation ☒

NOTE: If this request is for an existing DHEC project, please enter the Program area and ID number below.

Program Area: **Land and Waste Management**
Project or Site ID #: **File #51778**

6. Proposed number of monitoring wells: **9**

2. Well Owner's Information:

Name (Last then First):

Company: **United Technology Corp.**

Complete Address: **9 Farm Springs Road
Farmington, CT 06032**

Telephone Number: **(860) 728-6542**

7. Proposed parameters to be analyzed (check all that apply), please specify analytical method beside check box:

VOCs ☒ Method 8260B

BTEX ☐

MtBE ☐

Naphthalene ☐

PAHs ☐

Metals ☐

Nitrates ☐

Base, Neutral & Acid Ex. ☐

Pesticides/Herbicides ☐

Phenols ☐

Radionuclides ☐

PCBs ☐

Other (specify below) ☐

3. Property Owner's Information:

☐ Check if same as Well Owner

Name (Last then First):

Company: **Delavan Spray, LLC**

Address: **4334 Main Highway
Bamberg, SC 29003**

Telephone Number: **(803) 245-4347**

4. Proposed Drilling Date:

December 2018

8. Proposed construction details (complete and attach proposed monitoring well schematics):

DPT Installation of 1 Permanent Monitoring Well and 8 Temporary (Screen Point sampler) Wells. See Figures A-2 and A-3.

South Carolina Department of Health and Environmental Control (SCDHEC) summary of standards for monitoring well construction (per South Carolina Well Standards and Regulations R. 61-71)

Approval and License Requirements

Prior Department approval is required for the installation or abandonment of all monitoring wells including direct push, geoprobe or other temporary type monitoring wells. The attached monitoring well approval document should be completed, submitted and approved prior to construction of any monitoring well. A monitoring well is any well used to obtain water samples for water quality analyses or to measure groundwater levels. There are no fees for approvals. All monitoring wells must be drilled by a driller that is registered in South Carolina with the Board of Certification of the Environmental Systems Operators. If any of the information on the application including the proposed drilling date, well construction details or well placement changes, the Department (i.e. project manager issuing the well approval) must be notified 24 hours prior to well construction.

Location

Due to the nature and purpose of a monitoring well, the depth and location requirements in respect to surface water bodies, potential contamination sources, etc., are variable, and shall be approved on a case by case basis by the Department.

Construction and Material

Casing should be of sufficient strength to withstand normal forces encountered during and after well installation and be composed of material so as to minimally affect water quality analyses. Casing should have a sufficient diameter to allow for efficient sample collection (i.e., to provide access for sampling equipment). The diameter of the drilled hole needs to be large enough on all sides (1.5 inches of annular space) to allow forced injection of grout through a tremie pipe. All monitoring wells should have a cement pad or aggregate reinforced concrete at the ground surface which extends at least six inches beyond the bore hole diameter and six inches below ground surface to prevent infiltration between the surface casing and the bore hole. All monitoring wells should be grouted from the top of the bentonite seal to the surface with a neat cement, high solids bentonite or neat cement, bentonite mixture approved by the Department. A hydrated bentonite seal with a minimum thickness of 12 inches is to be placed above the filter pack to prevent infiltration of grout if the well has a filter pack. The monitoring well intake or screen design should minimize the amount of formational materials entering the well. The gravel pack should be utilized opposite the well screen as appropriate so that parameters analyses will be minimally affected. All monitoring wells should have a locking cap or other security device to prevent damage and/or vandalism. Any monitoring well which is destroyed, rendered unusable or is abandoned should be reported to the Department and be properly abandoned, revitalized or replaced as appropriate or required by permit or regulation.

Development

Monitoring wells shall be properly developed. Development shall include the removal of formation cuttings and drilling fluids from the well bore hole. Development shall be complete when the well produces water typical of the aquifer being monitored.

Reporting Requirements

A monitor well record form (1903) or equivalent to include the following should be completed and submitted to the Department within 30 days after completion of the monitoring wells:

Name and address of facility/owner;
Surveyed or global positioning system location of monitor well(s) on a scaled map or plat;
Driller and certification number;
Date drilled;
Driller's or Geologist's log;
Total depth;
Screened interval;
Diameter and construction details;
Depth to water table with date and time measured;
Surveyed elevation of measuring point with respect to established benchmark;
Monitoring well approval number issued by the Department.

Additionally, the groundwater and soil (if taken) analytical results should be submitted to the Department within 30 days of receipt from the laboratory.

Abandonment

All monitoring wells shall be properly abandoned, when deemed appropriate by the Department. Any well that acts as a source of contamination shall be repaired or permanently abandoned immediately after receipt of notice from the Department. Abandonment shall be by forced injection of grout or pouring through a tremie pipe starting at the bottom of the well and proceeding to the surface in one continuous operation. The well shall be filled with either neat cement, bentonite-cement, or 20% high solids sodium bentonite grout, from the bottom of the well to the land surface.

- * This summary of standards for monitoring well construction may not include a listing of all information necessary to obtain an approval to install monitoring wells. Final approval of monitoring well installation will be dependant upon the regulatory requirements for the Department program area for which the monitoring wells are to be installed.
- * Some areas of the Department may require a detailed justification of the placement of monitoring wells and the depth of monitoring well screened zones prior to granting installation approval.



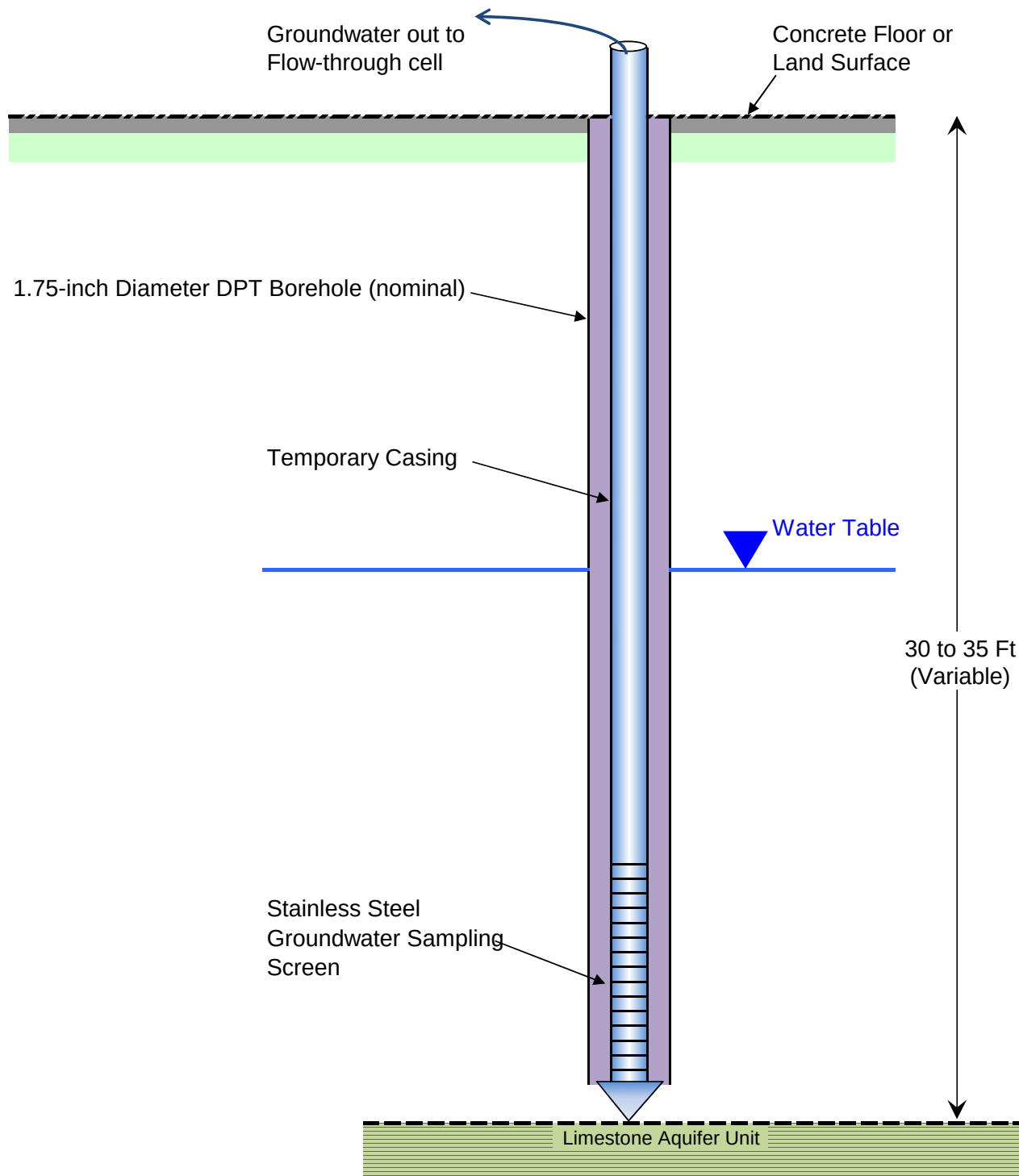
Legend

- Monitoring Well Location
- Prior DPT Location
- SSV Location
- Storm Drain
- Sanitary Sewer
- Investigation Areas
 - Northern Degreaser
 - Southern Degreaser
 - Eastern Degreaser
 - PCE UST



Map Projection: NAD 83, South Carolina State Plane, Feet, FIPS 3900

AECOM		10 Patewood Drive, Building 6, Suite 500 Greenville, SC 29615 T: (864) 234-3000 F: (864)234-3069	
HRSC Investigation Locations			
Delavan Spray Technologies Site Bamburg, South Carolina			
PROJECT NO. 60584969	PREPARED BY: RJS	DATE: 10/22/2018	Figure A-1



Notes:

Drawing not to scale

Sampling tools to be withdrawn from the boring after sample collection

Temporary borings to be abandoned by addition of bentonite chips and grouting

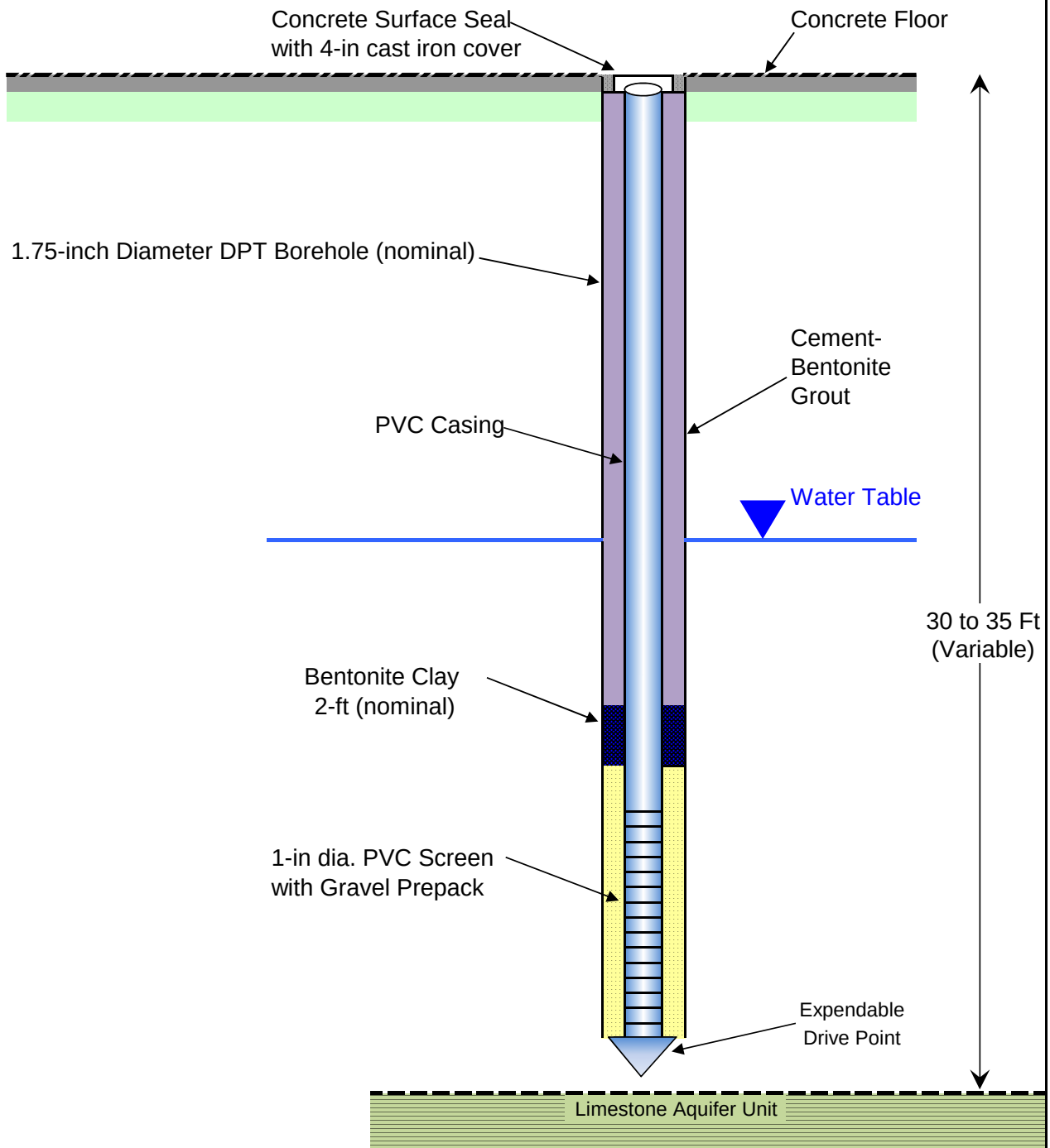
with a neat bentonite-portland cement mixture

AECOM

Figure A-2

**Schematic Diagram of a
Direct Push Groundwater Sampler**

**Delavan Spray Technologies Site
Bamberg, South Carolina**



Notes:
Drawing not to scale.

AECOM

Figure A-3
Schematic Diagram of a
Direct Push Monitoring Well Installation
Delavan Spray Technologies Site
Bamberg, South Carolina

APPENDIX B

Total Oxidant Demand Sampling Requirements

REDOX TECH, LLC



"Providing Innovative In Situ Soil and Groundwater Treatment"

Total Oxidant Demand Sampling Requirements

For aquifer TOD tests (not vadose zone), approximately 200 grams of soil and approximately 300 ml of water are required for each analyses. Typically, the soil samples are collected in an acetate liner with a geoprobe. The 3' or 4' long core samples may be cut in half so that they fit in a typical sample cooler. The acetate liner should be marked with the sample ID and depth. Cap each end of the liner with a cap or plastic and tape. Note that for a geoprobe macro-core liner, 200 grams of soil is only about 6 or 8 inches of sleeve. Therefore if you know which interval you are interested in, or are collecting other samples from the same core, a 12-inch liner section is adequate for testing. If the samples are collected with an augering technique, fill two 250 ml plastic or glass wide-mouth sampling jar with the soil. Mark the location and approximate depth on the soil jar. Samples may even be collected in ziplock (or similar) one-gallon freezer bags. We typically suggest double bagging. Also note that solvents and hydrocarbons can permeate typical plastic freezer bags.

Groundwater is typically collected and stored in a narrow mouth, glass container with no preservative. It is not crucial to obtain groundwater, because most of the oxidant demand is from the soil. If it is not practical to obtain groundwater, we will use distilled water to saturate the soil samples for the test. If groundwater is going to be collected, we recommend taking the sample from monitoring wells that are in the target area and close to the location of the soil sample.

For vadose zone samples, distilled water will be used to saturate the sample for the TOD test.

Store the samples on ice (if glass containers are used, ensure that they protected from breakage) and ship them to:

Redox Tech, LLC
C/O Vi Lewis
200 Quade Drive
Cary, NC 27513-7402
Phone: 919-678-0140

NOTE: Please call Vi two or more days before the samples will arrive in order to let her know that they will be coming. You can also e-mail Vi at vlewis@redox-tech.com.

Please do not hesitate to call Vi Lewis or John Haselow (919-678-0140) if you have any questions regarding this matter.

APPENDIX C

Previous Soil and Groundwater Sample Results

Supplemental Site Assessment Report - December 5, 2012

Remedial Investigation Report - July 3, 2014

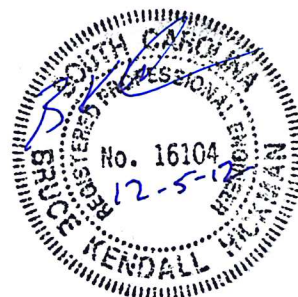
Post Remedial Investigation Report - May 17, 2016

Fall 2018 Semi-Annual Groundwater Monitoring Report - January 15, 2019

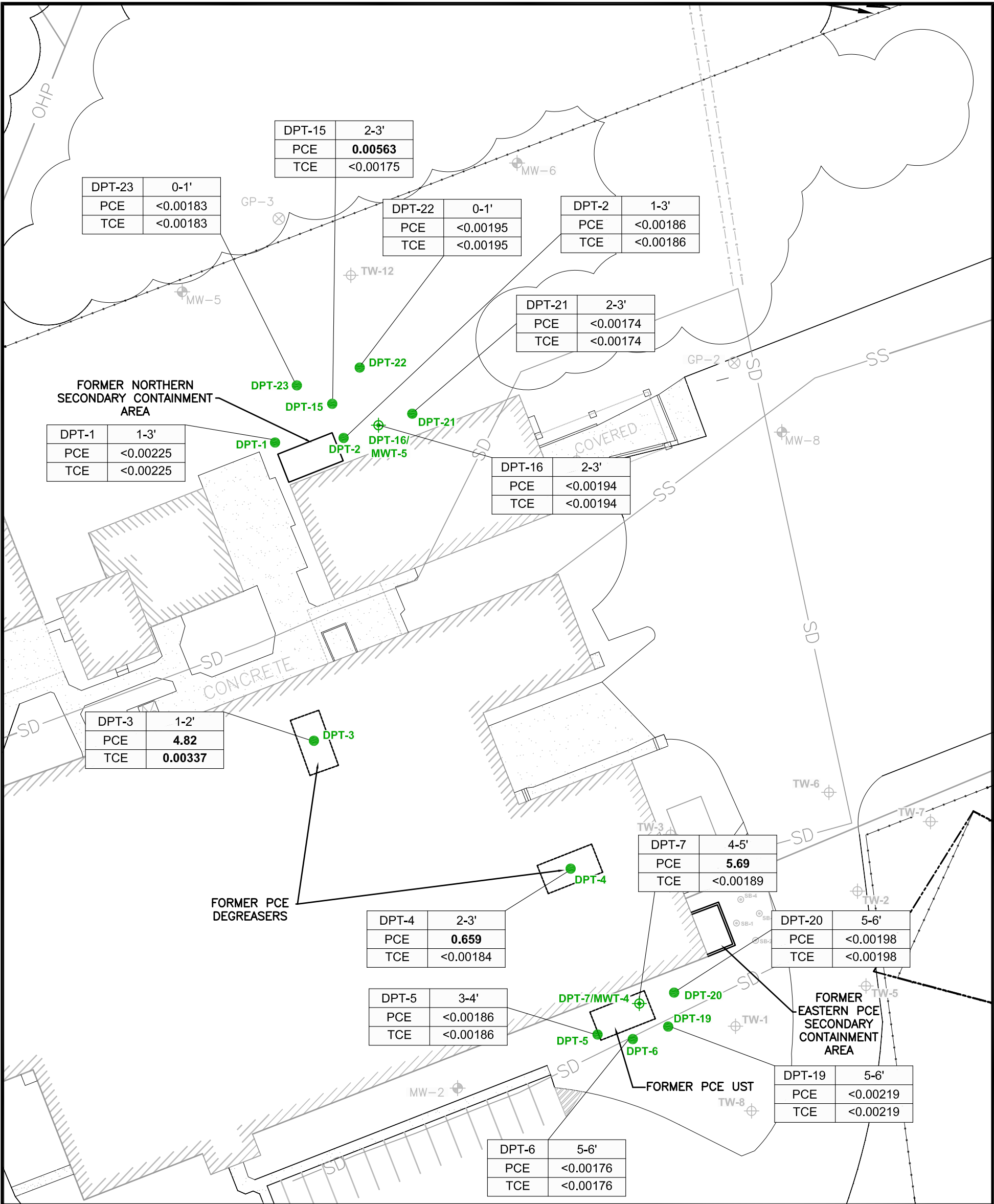
Supplemental Site Assessment Report

Delavan Spray Technologies Bamberg, South Carolina DHEC Site ID #02211

H&H Job No. UTC-006
December 5, 2012

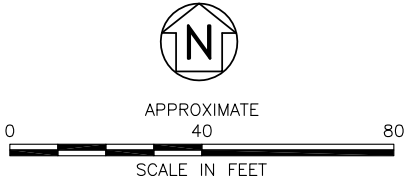


SMARTER ENVIRONMENTAL SOLUTIONS



LEGEND	
	SUBJECT PROPERTY BOUNDARY
	PROPERTY BOUNDARY
	SANITARY SEWER LINE
	STORMWATER DRAIN LINE
	WATER LINE
	OVERHEAD POWER LINE
	FENCE LINE
	DRAINAGE DITCH
	SHALLOW MONITORING WELL
	DPT SAMPLING POINT
	SOIL BORING
	SOIL BORING AND TEMPORARY MONITORING WELL
	PRIOR TEMPORARY MONITORING WELL (DECEMBER 2002)

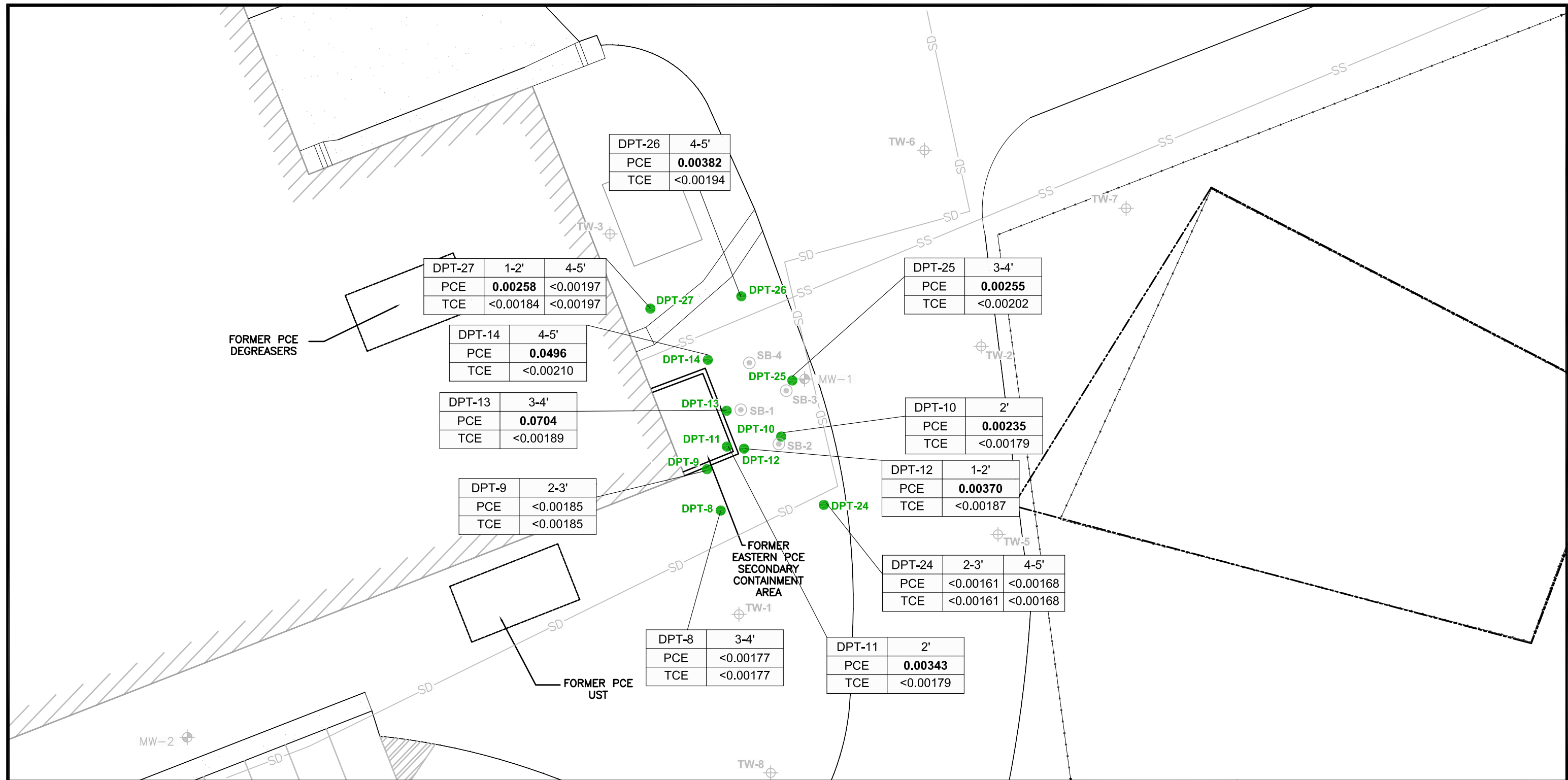
- NOTES:
1. BASE MAP OBTAINED FROM SURVEY PREPARED BY EDISTO ENGINEERS & SURVEYORS, INC. DATED 6/3/2011.
 2. AUGUST 2012 SAMPLING LOCATIONS WERE SURVEYED BY ESTO ENGINEERS AND SURVEYORS, INC. ON 8/28/2012.
 3. SOIL SAMPLES COLLECTED BY H&H IN AUGUST 2012.
 4. ONLY COMPOUNDS DETECTED ABOVE SOIL SCREENING LEVELS (SSLs) ARE DEPICTED.
 5. BOLD CONCENTRATIONS EXCEED PROTECTION OF GROUNDWATER SSL.



SAMPLE ID	SAMPLE DEPTH
DPT-6	5-6'
TETRACHLOROETHENE (PCE)	<0.00176
TRICHLOROETHENE (TCE)	<0.00176
CONSTITUENT	CONCENTRATION (mg/kg)

TITLE SOIL SAMPLE RESULTS – FORMER NORTHERN SECONDARY CONTAINMENT AREA, PCE DEGREASERS, AND PCE UST	
PROJECT DELANAN SPRAY TECHNOLOGIES BAMBERG, SOUTH CAROLINA	
hart hickman SMARTER ENVIRONMENTAL SOLUTIONS 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 12-5-12	REVISION NO. 0
JOB NO: UTC-006	FIGURE: 5

S:\AAA-Master Projects\UTC-006 Bamberg\Source Area Assessment\Figures\AREAS OF INTEREST FIG 3-7.dwg, FIG-7, 12/5/2012 3:14:23 PM, nfbster



LEGEND

-----	SUBJECT PROPERTY BOUNDARY	⊕	SHALLOW MONITORING WELL
SS	SANITARY SEWER LINE	●	SOIL BORING
SD	STORMWATER DRAIN LINE	⊙	PRIOR SOIL BORING (OCTOBER 2002)
* * *	FENCE LINE	⊕	PRIOR TEMPORARY MONITORING WELL (DECEMBER 2002)

SAMPLE ID		SAMPLE DEPTH	
DPT-8		3-4'	
TETRACHLOROETHENE (PCE)		<0.00177	
TRICHLOROETHENE (TCE)		<0.00177	
CONSTITUENT		CONCENTRATION (mg/kg)	

- NOTES:**
1. BASE MAP OBTAINED FROM SURVEY PREPARED BY EDISTO ENGINEERS & SURVEYORS, INC. DATED 6/3/2011.
 2. AUGUST 2012 SAMPLING LOCATIONS WERE SURVEYED BY ESTO ENGINEERS AND SURVEYORS, INC. ON 8/28/2012.
 3. SOIL SAMPLES COLLECTED BY H&H IN AUGUST 2012.
 4. ONLY COMPOUNDS DETECTED ABOVE SOIL SCREENING LEVELS (SSLs) ARE DEPICTED.
 5. BOLD CONCENTRATIONS EXCEED PROTECTION OF GROUNDWATER SSL.



TITLE SOIL SAMPLE RESULTS – FORMER EASTERN PCE SECONDARY CONTAINMENT AREA	
PROJECT DELAVAN SPRAY TECHNOLOGIES BAMBERG, SOUTH CAROLINA	
SMARTER ENVIRONMENTAL SOLUTIONS 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f) License # C-1269 / #C-245 Geology	
DATE: 12-5-12	REVISION NO. 0
JOB NO: UTC-006	FIGURE: 7

Remedial Investigation Report

**United Technologies Corporation
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
Suite 500, Building VI
Greenville, South Carolina

July 3, 2014

Post Remedial Investigation Report

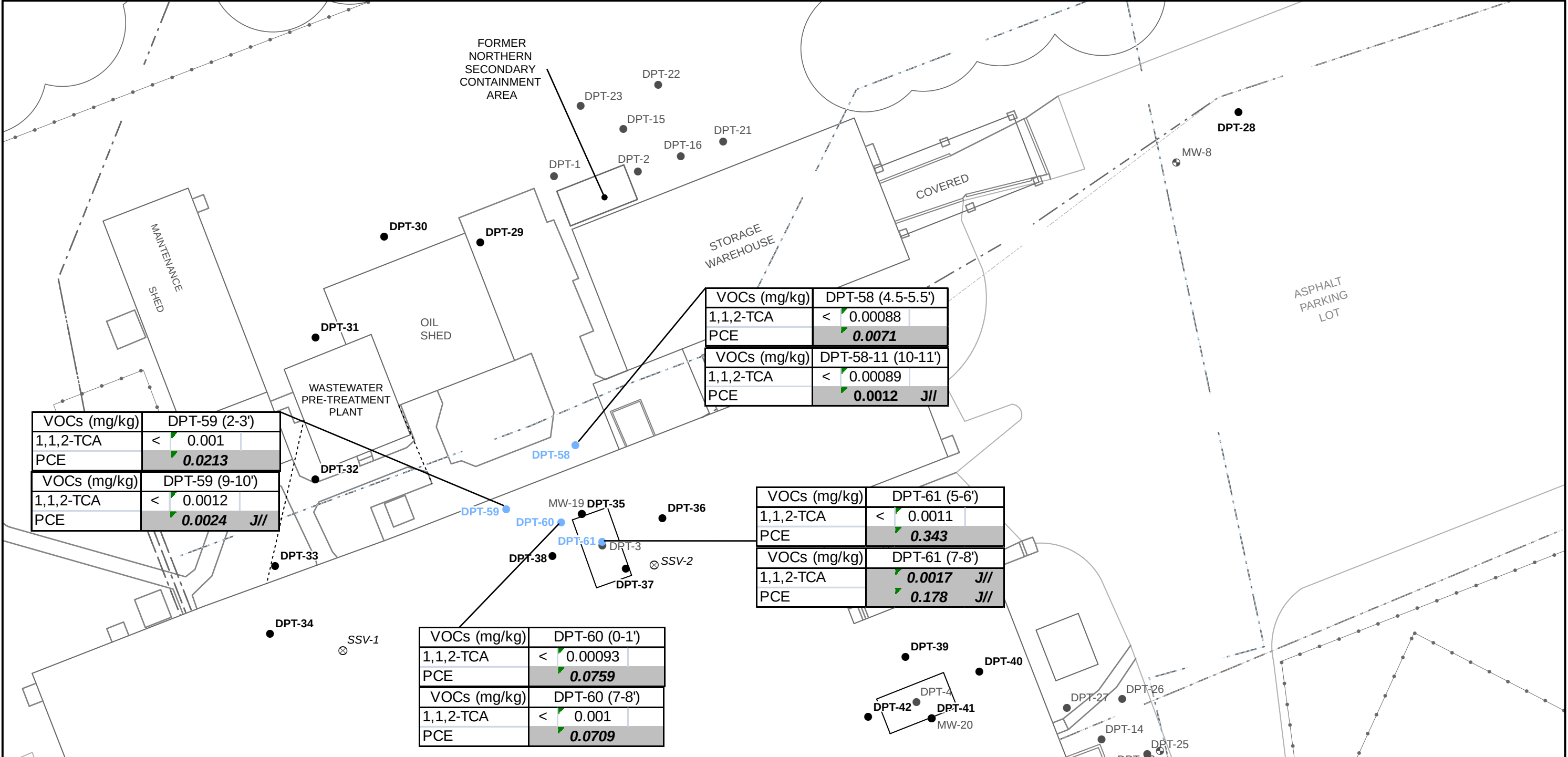
**United Technologies Corporation
Delavan Spray Technologies Site
4334 Main Highway
US Highway 301 South
Bamberg, South Carolina**

VCC 13-4762-RP

Prepared by:

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

May 17, 2016

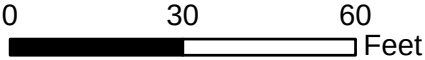


Legend

- 2015 SOIL BORING LOCATION
- 2012 SOIL BORING LOCATION
- 2012 SOIL GAS SAMPLE LOCATION
- SSV SAMPLE LOCATION
- RI SOIL BORING LOCATION
- SHALLOW WELL
- WASTE WATERLINES
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM DRAIN

Notes:
1,1,2-TCA - 1,1,2-Trichloroethane
MCL - Maximum Contaminant Level
mg/kg - milligram per kilogram
PCE - Tetrachloroethylene
RI - Remedial Investigation
SSL - Soil Screening Level
VOCs - Volatile Organic Compounds

- Base map obtained from surveys prepared by Edisto Engineers & Surveyors, Inc. dated 6/3/2011 and 4/14/2014. Post RI Assessment samples were surveyed 1/26/2016.
- Only compounds detected above the MCL-based SSLs are shown.
- MCL-Based SSL is the maximum contaminant level (MCL)-based Soil Screening Level (SSL) from the USEPA RSL Table (November 2015). SSL values are based on a dilution attenuation factor of 1.
- Bold font and shading indicate the concentration is detected. Italics indicates the concentration exceeds the MCL-Based SSL.
- Sample depth (in feet) is indicated by the numbers in parentheses in the sample identification.
- See Table 10 for an explanation of data qualifiers.



AECOM

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

UTC Delavan Spray Technologies Site
Bamberg, South Carolina

Sample Results for VOCs in Soil

Project No.
60314964

Prepared by
K. Clark

Date
May 2016

Figure 5

Fall 2018 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

January 15, 2019

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MCL		ug/L	200	NS	7	5	80	NS	80	70	80	NS	5	1000	100	5	2	10000
MW-1	6/4/2003	ug/L	<50	<50	<50	NA	NA	NA	NA	<50	NA	140	15000	<250	<50	<50	<50	<150
MW-1	12/30/2003	ug/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	11000	<800	<800	<800	<800	<800
MW-1	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	10.1	NA	<1.00	5470	NA	<1.00	34.8	<1.00	NA
MW-1	6/1/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	10.1	NA	<1.00	5750	NA	<1.00	41.3	<1.00	NA
MW-1	9/20/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	9.6	NA	<1.00	3150	NA	<1.00	38.4	<1.00	NA
MW-1	12/12/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	11.4	NA	<1.00	4750	NA	<1.00	35.6	<1.00	NA
MW-1	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	11.9	NA	<1.00	6580	NA	<1.00	48.1	<1.00	NA
MW-1	6/26/2006	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	13	NA	<1.0	4100	NA	<1.0	32	<1.0	NA
MW-1	10/21/2006	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	17.9	NA	<1.0	9550	NA	<1.0	65.8	<1.0	NA
MW-1	1/12/2007	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	23.1	NA	<1.00	6790	NA	<1.00	85.6	<1.00	NA
MW-1	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	102	NA	<1.00	5390	NA	<1.00	83.7	<1.00	NA
MW-1	11/5/2009	ug/L	<1.00	<1.00	1.74	NA	NA	NA	NA	382	NA	<1.00	7680	NA	<1.00	108	<1.00	NA
MW-1	4/30/2010	ug/L	<5.00	<5.00	<5.00	NA	NA	NA	NA	184	NA	<5.00	5940	NA	<5.00	79.6	<5.00	NA
MW-1	10/25/2010	ug/L	<50.0	<50.0	<50.0	NA	NA	NA	NA	648	NA	<50.0	5690	NA	<50.0	99.5	<50.0	NA
MW-1	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	210	NA	<1.0	3000	<1.0	<1.0	28	<2.0	<10
MW-1	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	265	NA	<1.00	2320	NA	<1.00	35	<1.00	NA
MW-1	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	298	NA	<1.00	3120	NA	<1.00	41.4	<1.00	NA
MW-1	2/26/2014	ug/L	<6.7	<5.1	<5.1	<4.8	<5.2	<4	<6.2	110 J/A	<7.2	69.3 J	1280 J/A	<4	<6.9	11.5 J	<6.5	<13
MW-1	10/27/2014	ug/L	<6.7	<5.1	<5.1	<4.8	<5.2	<4	<6.2	131	<7.2	<40	785	<4	<6.9	18.6 J	10.9 J	<13
MW-1	4/20/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	6.1	<1	<10	447	<2	<1	2.6 J	<1.3	<2.6
MW-1	10/28/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	7.1	<1	<10	383	<2	<1	2.8 J	<1.3	<2.6
MW-1	4/13/2016	ug/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	19.4	<1.3	<10	468	<1	<1.7	6.2	<1.6	<2.8
MW-1	10/25/2016	ug/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	7	<1.3	<10	410	<1	<1.7	3.5 J	<1.6	<2.8
MW-1	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	13.9	<0.28	<2	607	<0.3	<0.22	8.4	<0.41	<0.72
MW-1	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	124	<0.28	<2	835	<0.3	<0.22	23.2	<0.41	<0.72
MW-1	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	12.1	<0.28	<2	298	<0.3	<0.22	8.1	<0.41	<0.72
MW-1	10/30/2018	ug/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-2	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-2	12/30/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	4.5	<2	<2	<2	<2	<4
MW-2	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	4.3	NA	<1.00	<1.00	<1.00	NA
MW-2	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.21	NA	<1.00	<1.00	<1.00	NA
MW-2	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.5	NA	<1.00	<1.00	<1.00	NA
MW-2	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.17	NA	<1.00	<1.00	<1.00	NA
MW-2	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.27	NA	<1.00	<1.00	<1.00	NA
MW-2	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1	NA	<1.00	<1.00	<1.00	NA
MW-2	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-2	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.86	NA	<1.00	<1.00	<1.00	NA
MW-2	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	6.55	NA	<1.00	<1.00	<1.00	NA
MW-2	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.6	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	10/27/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-2	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.53 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.85 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-2	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.57	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.83 J	<0.2	<0.33	<0.27	<0.31	<0.56
MW-2	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.92 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	3.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	5/10/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.3	<0.3	<0.22	<0.35	<0.41	<0.72
MW-2	10/31/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-3	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	74	<5.0	<1.0	<1.0	<1.0	<3.0
MW-3	12/30/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	220	<2	<2	<2	<2	<4
MW-3	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	113	NA	<1.00	<1.00	<1.00	NA
MW-3	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	305	NA	<1.00	<1.00	<1.00	NA
MW-3	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	59.8	NA	<1.00	<1.00	<1.00	NA
MW-3	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	82.1	NA	<1.00	<1.00	<1.00	NA
MW-3	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	238	NA	<1.00	1.03	<1.00	NA
MW-3	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	391	NA	<1.00	2.79	<1.00	NA
MW-3	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	47	<1.0	<1.0	<1.0	<2.0	<10
MW-3	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	140	NA	<1.00	3.23	<1.00	NA
MW-3	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	64.5	NA	<1.00	<1.00	<1.00	NA
MW-3	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	45.1	<0.2	<0.34	1.1	<0.33	<0.66
MW-3	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	49.9	<0.2	<0.34	1.4	<0.33	<0.66
MW-3	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.92 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3	10/27/2015	ug/L	<0.2	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	0.24 J	<0.2	<2	57.4	<0.4	<0.21	0.79 J	<0.25	<0.51
MW-3	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.68	<0.26	<2	98	<0.2	<0.33	1.2	<0.31	<0.56
MW-3	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.58 J	<0.26	<2	91.6	<0.2	<0.33	1.1	<0.31	<0.56
MW-3	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	3.6	<0.28	<2	199	<0.3	<0.22	3.6	<0.41	<0.72
MW-3	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<									

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-3D	1/9/2008	ug/L	<1.00	<1.00	9.68	NA	NA	NA	NA	5.52	NA	<1.00	432	NA	<1.00	3.33	<1.00	NA
MW-3D	11/5/2009	ug/L	<1.00	<1.00	11.8	NA	NA	NA	NA	8.92	NA	<1.00	612	NA	<1.00	4.11	<1.00	NA
MW-3D	4/30/2010	ug/L	<1.00	<1.00	9.92	NA	NA	NA	NA	9.33	NA	<1.00	764	NA	<1.00	6.1	<1.00	NA
MW-3D	10/26/2010	ug/L	<1.00	<1.00	11.7	NA	NA	NA	NA	9.98	NA	<1.00	544	NA	<1.00	4.51	<1.00	NA
MW-3D	5/24/2011	ug/L	<1.0	<1.0	11	NA	NA	NA	NA	9.4	NA	<1.0	600	<1.0	<1.0	4.7	<2.0	<10
MW-3D	11/9/2011	ug/L	<1.00	<1.00	10.8	NA	NA	NA	NA	9.93	NA	<1.00	526	NA	<1.00	4.01	<1.00	NA
MW-3D	5/9/2012	ug/L	<1.00	<1.00	10.3	NA	NA	NA	NA	8.58	NA	<1.00	520	NA	<1.00	4.48	<1.00	NA
MW-3D	3/5/2014	ug/L	<0.34	<0.26	10.4	<0.24	<0.26	<0.2	<0.31	7	<0.36	<2	204	<0.2	<0.34	6	<0.33	<0.66
MW-3D	10/28/2014	ug/L	0.58 J	<0.26	16.2	<0.24	<0.26	<0.2	<0.31	5.9	<0.36	<2	384	<0.2	<0.34	4.2	<0.33	<0.66
MW-3D	4/21/2015	ug/L	<0.26	<0.2	12.4	<0.2	<0.22	<0.29	<0.3	8.4	<0.2	<2	316 /M/M	<0.4	<0.21	8.1	<0.25	<0.51
MW-3D	10/27/2015	ug/L	<1.3	<1	9.7	<1	<1.1	<1.5	<1.5	5.6	<1	<10	353	<2	<1	6.7	<1.3	<2.6
MW-3D	4/13/2016	ug/L	<1	<1.3	5.7	<1.4	<1.2	<1.2	<1.5	7.8	<1.3	<10	285	<1	<1.7	8.3	<1.6	<2.8
MW-3D	10/26/2016	ug/L	0.25 J	<0.26	8.8	<0.28	<0.24	<0.23	<0.3	8.3	<0.26	<2	331	<0.2	<0.33	7.6	<0.31	<0.56
MW-3D	4/11/2017	ug/L	0.27 J	<0.34	8	<0.31	<0.24	<0.53	<0.3	8	<0.28	<2	223	<0.3	<0.22	8.1	<0.41	<0.72
MW-3D	10/17/2017	ug/L	<0.62	<0.85	8.8	<0.78	<0.61	<1.3	<0.75	6.4	<0.69	<5	290	<0.75	<0.55	4.4	<1	<1.8
MW-3D	5/9/2018	ug/l	<1.2	<1.7	6.7	<1.6	<1.2	<2.7	<1.5	7	<1.4	<10	299	<1.5	<1.1	7.4	<2	<3.6
MW-3D	10/31/2018	ug/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-3D1	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-3D1	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-3D1	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-3D1	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-3D1	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3D1	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-3D1	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-3D1	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-3D1	10/31/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-4	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-4	12/30/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-4	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	11/5/2009	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	10/25/2010	ug/L	<10.0	<10.0	<10.0	NA	NA	NA	NA	<10.0	NA	<10.0	<10.0	NA	<10.0	<10.0	<10.0	NA
MW-4	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-4	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-4	3/12/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-4	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	0.54 J	<0.21	<0.22	<0.25	<0.51
MW-4	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-4	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	0.42 J	<0.33	<0.27	<0.31	<0.56
MW-4	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.25	<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	ug/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-5	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	160	<5.0	<1.0	<1.0	<1.0	<3.0
MW-5	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	230	<2	<2	<2	<2	<4
MW-5	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	345	NA	<1.00	<1.00	<1.00	NA
MW-5	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	3.79	NA	<1.00	<1.00	<1.00	NA
MW-5	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	97.6	NA	<1.00	<1.00	<1.00	NA
MW-5	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.42	NA	<1.00	<1.00	<1.00	NA
MW-5	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.46	NA	<1.00	<1.00	<1.00	NA
MW-5	10/26/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-5	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-5	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	1.55	NA	<1.00	<1.00	<1.00	NA
MW-5	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	2.57	NA	<1.00	<1.00	<1.00	NA
MW-5	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	11.7	<0.2	<0.34	<0.3	<0.33	<0.66
MW-5	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	1.1	<0.2	<0.34	<0.3	<0.33	<0.66
MW-5	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	1	<0.2	<2	74.3	<0.4	<0.21	1.3	<0.25	<0.51
MW-5	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	16.2	<0.4	<0.21	<0.22	<0.25	<0.51
MW-5	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.53	<0.2	<0.33	<0.27	<0.31	<0.56
MW-5	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	2.5	<0.2	<0.33	<0.27	<0.31	<0.56
MW-5	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	2.7	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.25	<0.53	<0.3	<0.28	<0.28	<2	0.87 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-5	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	27.7	<0.3	<0.22	<0.35	<0	

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-6	6/4/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
MW-6	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MW-6	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-6	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-6	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	0.59 J	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-6	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-6	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-6	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-6	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-6	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	5.3
MW-7	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-7	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-7	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-7	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-7	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	1.4	<0.4	<0.21	<0.22	<0.25	<0.51
MW-7	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-7	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-7	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.49 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-7	11/1/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-8	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	30	1.9J	<2	<2	<2	4.7
MW-8	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	135	NA	<1.00	1.1	<1.00	NA
MW-8	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	102	NA	<1.00	1.1	<1.00	NA
MW-8	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	159	NA	<1.00	1.66	<1.00	NA
MW-8	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	94.1	NA	<1.00	1.38	<1.00	NA
MW-8	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	28.3	NA	<1.00	<1.00	<1.00	NA
MW-8	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	76.4	NA	<1.00	1.22	<1.00	NA
MW-8	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	100	<1.0	<1.0	2.3	<2.0	<10
MW-8	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	276	NA	<1.00	5.31	<1.00	NA
MW-8	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	1.11	NA	<1.00	491	NA	<1.00	8.42	<1.00	NA
MW-8	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	114	<0.2	<0.34	6.8	<0.33	<0.66
MW-8	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	71.4	<0.2	<0.34	3.2	<0.33	<0.66
MW-8	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	28.5	<0.4	<0.21	0.97 J	<0.25	<0.51
MW-8	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	26	<0.4	<0.21	2.2	<0.25	<0.51
MW-8	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	7.8	<0.2	<0.33	<0.27	<0.31	<0.56
MW-8	10/24/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	35.8	<0.2	<0.33	4.9	<0.31	<0.56
MW-8	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	18.8	<0.3	<0.22	1.8	<0.41	<0.72
MW-8	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.31 J	<0.28	<2	47.9	<0.3	<0.22	4.7	<0.41	<0.72
MW-8	5/9/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	0.9 J	<0.28	<2	81.6	<0.3	<0.22	10.4	<0.41	<0.72
MW-8	10/30/2018	ug/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
MWT-1/MW-9	12/31/2003	ug/L	<800	<800	<800	NA	NA	NA	NA	<800	NA	<800	7500	<800	<800	<800	<800	<2,000
MWT-1/MW-9	3/14/2005	ug/L	<1.00	<1.00	7.3	NA	NA	NA	NA	19.1	NA	<1.00	3520	NA	<1.00	76	<1.00	NA
MWT-1/MW-9	6/1/2005	ug/L	<1.00	<1.00	6.7	NA	NA	NA	NA	226	NA	<1.00	4670	NA	1.4	280	<1.00	NA
MWT-1/MW-9	9/20/2005	ug/L	1.28	<1.00	13.6	NA	NA	NA	NA	158	NA	<1.00	5000	NA	1.9	295	<1.00	NA
MWT-1/MW-9	12/12/2005	ug/L	2.05	<1.00	8.94	NA	NA	NA	NA	182	NA	<1.00	3920	NA	1.37	286	<1.00	NA
MWT-1/MW-9	3/28/2006	ug/L	<1.00	<1.00	8.51	NA	NA	NA	NA	362	NA	<1.00	4560	NA	1.57	372	<1.00	NA
MWT-1/MW-9	6/26/2006	ug/L	<1.0	<1.0	12	NA	NA	NA	NA	520	NA	<1.0	1500	NA	1.7	330	<1.0	NA
MWT-1/MW-9	10/21/2006	ug/L	<1.0	<1.0	23.5	NA	NA	NA	NA	540	NA	<1.0	7490	NA	<1.0	504	<1.0	NA
MWT-1/MW-9	1/12/2007	ug/L	<1.00	<1.00	25.3	NA	NA	NA	NA	442	NA	<1.00	5630	NA	1.97	626	<1.00	NA
MWT-1/MW-9	1/9/2008	ug/L	1.08	<1.00	5.01	NA	NA	NA	NA	271	NA	<1.00	2410	NA	1.39	297	8.73	NA
MWT-1/MW-9	11/4/2009	ug/L	<1.00	<1.00	11.6	NA	NA	NA	NA	379	NA	<1.00	2950	NA	2.21	559	<1.00	NA
MWT-1/MW-9	4/29/2010	ug/L	<1.00	<1.00	11.1	NA	NA	NA	NA	236	NA	<1.00	4170	NA	3.41	320	4.79	NA
MWT-1/MW-9	10/25/2010	ug/L	<20.0	<20.0	<20.0	NA	NA	NA	NA	326	NA	<20.0	3660	NA	<20.0	579		

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-9D	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-9D	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-9D	3/6/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-9D	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-9D	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-9D	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-9D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-9D	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-9	3/6/2014	ug/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	31.5	<1.8	<10	498	<1	<1.7	55.3	<1.6	<3.3
MW-9	10/29/2014	ug/L	<0.34	<0.26	2.2	<0.24	<0.26	<0.2	<0.31	92.2	<0.36	<2	727 /M/m	<0.2	0.59 J	159	<0.33	<0.66
MW-9	4/22/2015	ug/L	<2.6	<2	<2.7	<2	<2.2	<2.9	<3	33.1	<2	<20	1760	<4	<2.1	133	<2.5	<5.1
MW-9	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	116	<0.2	<2	1070	<0.4	1.1	172 /M/M	<0.25	<0.51
MW-9	4/12/2016	ug/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	49.2	<2.6	<20	771	<2	<3.3	115	<3.1	<5.6
MW-9	10/26/2016	ug/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	19.2	<2.6	<20	685	<2	<3.3	106	<3.1	<5.6
MW-9	4/10/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	7.8	<1.4	<10	326	<1.5	<1.1	43.8	<2	<3.6
MW-9	10/17/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	109	<1.4	<10	646	<1.5	<1.1	157	<2	<3.6
MW-9	5/9/2018	ug/l	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	5.9	<1.4	<10	466	<1.5	<1.1	46.5	<2	<3.6
MW-9	10/30/2018	ug/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
MWT-2/MW-10	12/31/2003	ug/L	<200	<200	520	NA	NA	NA	NA	<200	NA	<200	5800	<200	<200	<200	<200	<400
MWT-2/MW-10	3/14/2005	ug/L	26.4	<1.00	18.6	NA	NA	NA	NA	40.1	NA	<1.00	4360	NA	1	62.3	<1.00	NA
MWT-2/MW-10	6/1/2005	ug/L	12.7	1.7	17.5	NA	NA	NA	NA	40.8	NA	<1.00	5680	NA	<1.00	52	<1.00	NA
MWT-2/MW-10	9/20/2005	ug/L	9.03	<1.00	40	NA	NA	NA	NA	27.8	NA	<1.00	4360	NA	<1.00	46.2	<1.00	NA
MWT-2/MW-10	12/12/2005	ug/L	11.7	<1.00	14.4	NA	NA	NA	NA	23.2	NA	<1.00	3050	NA	<1.00	45.2	<1.00	NA
MWT-2/MW-10	3/28/2006	ug/L	6.1	<1.00	13.4	NA	NA	NA	NA	16.8	NA	<1.00	3090	NA	<1.00	27.4	<1.00	NA
MWT-2/MW-10	6/26/2006	ug/L	<20	<20	<20	NA	NA	NA	NA	21	NA	<20	1800	NA	<20	31	<20	NA
MWT-2/MW-10	10/21/2006	ug/L	<100	<100	<100	NA	NA	NA	NA	121	NA	<100	3380	NA	<100	<100	114	NA
MWT-2/MW-10	1/12/2007	ug/L	1.22	<1.00	2.08	NA	NA	NA	NA	12.4	NA	<1.00	2980	NA	<1.00	32.7	<1.00	NA
MWT-2/MW-10	1/9/2008	ug/L	10.9	<1.00	24.1	NA	NA	NA	NA	89.1	NA	<1.00	3250	NA	<1.00	71.9	<1.00	NA
MWT-2/MW-10	11/4/2009	ug/L	1.49	1.56	82.2	NA	NA	NA	NA	1120	NA	<1.00	1600	NA	1.22	33.9	<1.00	NA
MWT-2/MW-10	4/29/2010	ug/L	<1.00	<1.00	2.85	NA	NA	NA	NA	104	NA	<1.00	53.8	NA	<1.00	3.22	<1.00	NA
MWT-2/MW-10	10/25/2010	ug/L	<10.0	<10.0	108	NA	NA	NA	NA	1270	NA	<10.0	1150	NA	<10.0	129	<10.0	NA
MWT-2/MW-10	5/24/2011	ug/L	<20	<20	<20	NA	NA	NA	NA	390	NA	<20	2000	<20	<20	88	<40.0	<200
MWT-2/MW-10	11/9/2011	ug/L	<5.00	8.8	285	NA	NA	NA	NA	4250	NA	<5.00	4670	NA	<5.00	154	<5.00	NA
MWT-2/MW-10	5/8/2012	ug/L	3.7	<1.00	7.83	NA	NA	NA	NA	885	NA	<1.00	1810	NA	17.1	386	<1.00	NA
MW-10	3/5/2014	ug/L	<0.34	<0.26	0.36 J	<0.24	<0.26	<0.2	<0.31	13.9	<0.36	<2	93.2	<0.2	<0.34	15.1	<0.33	<0.66
MW-10	10/29/2014	ug/L	<0.34	0.37 J	32.7	<0.24	<0.26	<0.2	<0.31	664	<0.36	<2	136	2.6	0.51 J	36.9	<0.33	<0.66
MW-10	4/22/2015	ug/L	<0.26	<0.2	5.2	<0.2	<0.22	<0.29	<0.3	98.8	<0.2	<2	54.1	<0.4	<0.21	7.8	<0.25	<0.51
MW-10	10/26/2015	ug/L	<0.26	0.49 J	30.3	0.22 J	<0.22	<0.29	<0.3	506	<0.2	<2	66.4	1.1	0.25 J	45.2	0.5 J	<0.51
MW-10	4/12/2016	ug/L	<0.2	<0.26	6.7	<0.28	<0.24	<0.23	<0.3	90.8	<0.26	<2	43.3	1.2	<0.33	22.1	<0.31	<0.56
MW-10	10/25/2016	ug/L	<0.2	<0.26	9	<0.28	<0.24	<0.23	<0.3	146	<0.26	<2	41.4	7.2	0.49 J	13.5	<0.31	<0.56
MW-10	4/10/2017	ug/L	<0.25	<0.34	0.95 J	<0.31	<0.24	<0.53	<0.3	41	<0.28	<2	51.6	1.2	0.32 J	44.3	<0.41	<0.72
MW-10	10/17/2017	ug/L	<0.25	<0.34	23.7	<0.31	<0.24	<0.53	<0.3	350	<0.28	<2	149	<0.3	0.26 J	70.9	<0.41	<0.72
MW-10	5/9/2018	ug/l	0.26 J	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	136	<0.28	<2	180	<0.3	0.42 J	98.6	<0.41	<0.72
MW-10	10/30/2018	ug/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-10D	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	4.09	NA	<1.00	<1.00	<1.00	NA
MW-10D	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-10D	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-10D	3/5/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-10D	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-10D	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-10D	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-10D	10/25/2016	ug/L	<0.2 //h	<0.26 //h	<0.22 //h	<0.28 //h	<0.24 //h	<0.23 //h	<0.3 //h	<0.31 //h	<0.26 //h	<2 //h	<0.3 //h	<0.2 //h	<0.33 //h	<0.27 //h	<0.31 //h	<0.56 //h
MW-10D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-10D	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MWT-3/MW-11	12/31/2003	ug/L	<2	<2	<2	NA	NA	NA	NA	<2	NA	<2	<2	<2	<2	<2	<2	<4
MWT-3/MW-11	3/14/2005	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	3/28/2006	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	5/24/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MWT-3/MW-11	11/9/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MWT-3/MW-11	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-11	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-11	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-11	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	4.2	<0.21	<0.22	<0.25	<0.51
MW-11	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	1	<0.33	<0.27	<0.31	<0.56
MW-11	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-11	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	11/5/2009	ug/L	<1.00	<1.00	1.11	NA	NA	NA	NA	<1.00	NA	<1.00	87.7	NA	<1.00	<1.00	<1.00	NA
MW-12D	4/30/2010	ug/L	1.13	<1.00	3.67	NA	NA	NA	NA	<1.00	NA	<1.00	451	NA	<1.00	<1.00	<1.00	NA
MW-12D	10/25/2010	ug/L	<1.00	<1.00	1.07	NA	NA	NA	NA	<1.00	NA	<1.00	72.3	NA	<1.00	<1.00	<1.00	NA
MW-12D	5/23/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	12	<1.0	<1.0	<1.0	<2.0	<10
MW-12D	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	20.8	NA	<1.00	<1.00	<1.00	NA
MW-12D	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	21.4	NA	<1.00	<1.00	<1.00	NA
MW-12D	3/11/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	40.7	<0.2	<0.34	<0.3	<0.33	<0.66
MW-12D	10/29/2014	ug/L	<0.34	<0.26	0.64 J	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	25.5	<0.2	<0.34	<0.3	<0.33	<0.66
MW-12D	4/21/2015	ug/L	<0.26	<0.2	1.4	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	65.6	<0.4	<0.21	<0.22	<0.25	<0.51
MW-12D	10/27/2015	ug/L	<0.26	<0.2	0.54 J	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	25.1	<0.4	<0.21	<0.22	<0.25	<0.51
MW-12D	4/13/2016	ug/L	<0.4	<0.51	2.9	<0.57	<0.48	<0.46	<0.6	<0.62	<0.52	<4	140	<0.4	<0.66	<0.54	<0.63	<1.1
MW-12D	10/25/2016	ug/L	<0.2 //h	<0.26 //h	1.2 //h	<0.28 //h	<0.24 //h	<0.23 //h	<0.3 //h	<0.31 //h	<0.26 //h	<2 //h	69.2 //h	<0.2 //h	<0.33 //h	<0.27 //h	<0.31 //h	<0.56 //h
MW-12D	4/10/2017	ug/L	<0.25	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	98.6	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	10/18/2017	ug/L	<0.25	<0.34	0.48 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	39.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	5/8/2018	ug/l	<0.25	<0.34	0.55 J	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	33.5	<0.3	<0.22	<0.35	<0.41	<0.72
MW-12D	10/30/2018	ug/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-13D	11/5/2009	ug/L	<1.00	<1.00	1.92	NA	NA	NA	NA	<1.00	NA	<1.00	96.4	NA	<1.00	<1.00	<1.00	NA
MW-13D	4/30/2010	ug/L	3.34	<1.00	4.6	NA	NA	NA	NA	<1.00	NA	<1.00	292	NA	<1.00	<1.00	<1.00	NA
MW-13D	10/25/2010	ug/L	1.21	<1.00	3.45	NA	NA	NA	NA	<1.00	NA	<1.00	120	NA	<1.00	<1.00	<1.00	NA
MW-13D	5/23/2011	ug/L	<1.0	<1.0	1.6	NA	NA	NA	NA	<1.0	NA	<1.0	56	<1.0	<1.0	<1.0	<2.0	<10
MW-13D	11/8/2011	ug/L	<1.00	<1.00	1.4	NA	NA	NA	NA	<1.00	NA	<1.00	74.9	NA	<1.00	<1.00	<1.00	NA
MW-13D	5/9/2012	ug/L	<1.00	<1.00	1.25	NA	NA	NA	NA	<1.00	NA	<1.00	74.3	NA	<1.00	<1.00	<1.00	NA
MW-13D	3/11/2014	ug/L	1	<0.26	3.6	<0.24	<0.26	<0.2	0.6 J	<0.33	<0.36	<2	94.1	<0.2	<0.34	<0.3	<0.33	<0.66
MW-13D	10/29/2014	ug/L	<0.34	<0.26	2	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	47.6	<0.2	<0.34	<0.3	<0.33	<0.66
MW-13D	4/22/2015	ug/L	1.5	<0.2	4.4	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	84.8	<0.4	<0.21	<0.22	<0.25	<0.51
MW-13D	10/27/2015	ug/L	0.39 J	<0.2	1.7	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	84.5	<0.4	<0.21	<0.22	<0.25	<0.51
MW-13D	4/13/2016	ug/L	3.1	<0.26	5.4	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	151	<0.2	<0.33	<0.27	<0.31	<0.56
MW-13D	10/25/2016	ug/L	2.5 J	<1.3	7	<1.4	<1.2	<1.2	<1.5	<1.6	<1.3	<10	298	<1	<1.7	<1.4	<1.6	<2.8
MW-13D	4/10/2017	ug/L	1.6	<0.34	4.1	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	168	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	10/18/2017	ug/L	0.31 J	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	84	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	5/8/2018	ug/l	0.92 J	<0.34	2.9	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	92.5	<0.3	<0.22	<0.35	<0.41	<0.72
MW-13D	10/31/2018	ug/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-14	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	10/25/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	5/23/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-14	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-14	2/26/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-14	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-14	4/20/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.46 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14	10/28/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	0.72 J	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.9	<0.2	<0.33	<0.27	<0.31	<0.56
MW-14	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	0.66 J	<0.2	<0.33	<0.27	<0.31	<0.56
MW-14	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.9	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	5/10/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1.3	<0.3	<0.22	<0.35	<0.41	<0.72
MW-14	10/29/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1	<0.3	<0.22	<0.35	<0.41	<0.72

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-14D	11/5/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	18.7	NA	<1.00	<1.00	<1.00	NA
MW-14D	4/30/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	74.8	NA	<1.00	<1.00	<1.00	NA
MW-14D	10/25/2010	ug/L	<1.00	<1.00	1.12	NA	NA	NA	NA	<1.00	NA	<1.00	85.3	NA	<1.00	<1.00	<1.00	NA
MW-14D	5/23/2011	ug/L	<1.0	<1.0	1.4	NA	NA	NA	NA	<1.0	NA	<1.0	92	<1.0	<1.0	<1.0	<2.0	<10
MW-14D	11/8/2011	ug/L	<1.00	<1.00	1.11	NA	NA	NA	NA	<1.00	NA	<1.00	77.3	NA	<1.00	<1.00	<1.00	NA
MW-14D	5/9/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	82.1	NA	<1.00	<1.00	<1.00	NA
MW-14D	2/26/2014	ug/L	<0.34	<0.26	1.6	<0.24	<0.26	<0.2	<0.31	0.95 J	<0.36	<2	81.5	<0.2	<0.34	0.56 J	<0.33	<0.66
MW-14D	10/28/2014	ug/L	<0.34	<0.26	1.2	<0.24	<0.26	<0.2	<0.31	0.65 J	<0.36	<2	79.3	<0.2	<0.34	0.56 J	<0.33	<0.66
MW-14D	4/20/2015	ug/L	<0.26	<0.2	1.8	<0.2	<0.22	<0.29	<0.3	0.9 J	<0.2	<2	69.7	<0.4	<0.21	0.61 J	<0.25	<0.51
MW-14D	10/28/2015	ug/L	<0.26	<0.2	1	<0.2	<0.22	<0.29	<0.3	0.34 J	<0.2	<2	53.1	<0.4	<0.21	<0.22	<0.25	<0.51
MW-14D	4/13/2016	ug/L	<0.2	<0.26	1.5	<0.28	<0.24	<0.23	<0.3	0.98	<0.26	<2	78.5	<0.2	<0.33	0.73	<0.31	<0.56
MW-14D	10/26/2016	ug/L	<0.2	<0.26	1.4	<0.28	<0.24	<0.23	<0.3	0.86 J	<0.26	<2	84.3	<0.2	<0.33	0.65 J	<0.31	<0.56
MW-14D	4/11/2017	ug/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	84.6	<0.3	<0.22	0.77 J	<0.41	<0.72
MW-14D	10/17/2017	ug/L	<0.25	<0.34	0.72 J	<0.31	<0.24	<0.53	<0.3	0.34 J	<0.28	<2	63.4	<0.3	<0.22	0.43 J	<0.41	<0.72
MW-14D	5/10/2018	ug/l	<0.25	<0.34	1.1	<0.31	<0.24	<0.53	<0.3	0.61 J	<0.28	<2	59.9	<0.3	<0.22	0.56 J	<0.41	<0.72
MW-14D	10/30/2018	ug/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-15	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	1.6	<0.22	<0.35	<0.41	<0.72
MW-15	5/7/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15	10/29/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-15D	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-15D	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	0.24 J	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D	10/29/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D1	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-15D1	2/25/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D1	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-15D1	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D1	10/26/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-15D1	4/11/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D1	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-15D1	4/11/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<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	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-15D1	10/29/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-16	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-16	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16	3/6/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16	4/13/2016	ug/L	<															

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-16D	5/25/2011	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10
MW-16D	6/28/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<3.00
MW-16D	11/8/2011	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16D	5/8/2012	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
MW-16D	3/6/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16D	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-16D	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16D	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-16D	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-16D	10/25/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-16D	4/10/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	5/7/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-16D	10/31/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	3/10/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-17	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-17	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-17	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-17	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-17	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-17	10/31/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-18	3/10/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-18	10/29/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-18	4/22/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-18	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-18	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-18	10/16/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-18	10/31/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-19	3/6/2014	ug/L	<67	<51	<51	<48	<52	<40	<62	<65	<72	639 J	14000	<40	<69	<60	<65	<130
MW-19	10/28/2014	ug/L	16 J	<5.1	12 J	<4.8	<5.2	<4	<6.2	<6.5	<7.2	<40	3470	<4	<6.9	<6	<6.5	<13
MW-19	4/21/2015	ug/L	19.8 J	<4	15.6 J	<4	<4.3	<5.9	<6	12.5 J	<4	<40	4170	<8	<4.2	5.5 J	<5	<10
MW-19	10/28/2015	ug/L	34.6	<5	21.6 J	<5	<5.4	<7.4	<7.5	<5.5	<5	<50	8040	<10	<5.2	<5.4	<6.3	<13
MW-19	4/12/2016	ug/L	97.5	<26	39.1	<28	<24	<23	<30	<31	<26	221	16600	<20	<33	<27	<31	<56
MW-19	10/24/2016	ug/L	245	<51	<43	<57	<48	<46	<60	<62	<52	<400	34600	<40	<66	<54	<63	<110
MW-19	4/11/2017	ug/L	180 J	<85	<81	<78	<61	<130	<75	<69	<69	<500	24600	<75	<55	<86	<100	<180
MW-19	10/18/2017	ug/L	74.9 J	<85	<81	<78	<61	<130	299	<69	<69	<500	18700	<75	<55	<86	<100	<180
MW-19	5/9/2018	ug/l	69.5 J	<85	<81	<78	<61	<130	92.4 J	<69	<69	<500	18700	<75	<55	<86	<100	<180
MW-19	11/1/2018	ug/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-20	3/6/2014	ug/L	<3.4	<2.6	<2.5	<2.4	<2.6	<2	<3.1	4 J	<3.6	<20	648	<2	<3.4	5 J	<3.3	<6.6
MW-20	10/28/2014	ug/L	<1.7	<1.3	<1.3	<1.2	<1.3	<1	<1.6	<1.6	<1.8	<10	428	<1	<1.7	2.7 J	<1.6	<3.3
MW-20	4/21/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	2.6 J	<1	<10	452	<2	<1	4.2 J	<1.3	<2.6
MW-20	10/28/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	<1.1	<1	11.1 J	623	<2	<1	4.6 J	<1.3	<2.6
MW-20	4/12/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	0.72	<0.26	<2	480	<0.2	<0.33	3.2	<0.31	<0.56
MW-20	10/24/2016	ug/L	<2	<2.6	<2.2	<2.8	<2.4	<2.3	<3	<3.1	<2.6	<20	503	<2	<3.3	<2.7	<3.1	<5.6
MW-20	4/11/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	1.5 J	<1.4	<10	438	<1.5	<1.1	3.1 J	<2	<3.6
MW-20	10/18/2017	ug/L	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	4.8 J	<1.4	<1.4	<10	312	<1.5	<1.1	2.2 J	<2	<3.6
MW-20	5/9/2018	ug/l	<1.2	<1.7	<1.6	<1.6	<1.2	<2.7	<1.5	3.3 J	<1.4	<10	388	<1.5	<1.1	3.9 J	<2	<3.6
MW-20	11/1/2018	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1- Trichloroethane	1,1- Dichloroethane	1,1- Dichloroethylene	1,2- Dichloroethane	Bromodichloro- methane	Carbon disulfide	Chloroform	cis-1,2- Dichloroethylene	Dibromochloro- methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-21	3/11/2014	ug/L	<67	<51	<51	<48	<52	<40	<62	466	<72	765 J	16300	<40	<69	209	<65	<130
MW-21	10/28/2014	ug/L	<67	<51	<51	<48	<52	<40	<62	733	<72	<400	14500	<40	<69	354	<65	<130
MW-21	4/22/2015	ug/L	<0.26	<0.2	1	<0.2	<0.22	<0.29	<0.3	351	<0.2	<2	14500	<0.4	<0.21	225	<0.25	0.89 J
MW-21	10/28/2015	ug/L	<13	<10	<14	<10	<11	<15	<15	339	<10	<100	14600	<20	<10	180	<13	<26
MW-21	4/12/2016	ug/L	<10	<13	<11	<14	<12	<12	<15	383	<13	<100	13200	<10	<17	216	<16	<28
MW-21	10/25/2016	ug/L	<0.5	<0.64	<0.54	<0.71	<0.6	<0.58	<0.75	4.2	<0.65	<5	181	<0.5	<0.83	2.3 J	<0.79	<1.4
MW-21	4/12/2017	ug/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	ug/L	<62	<85	<81	<78	<62	<130	292	573	<69	<500	23900	<75	<55	252	<100	<180
MW-21	5/10/2018	ug/l	<62	<85	<81	<78	<61	<130	98.8 J	777	<69	<500	25600	<75	<55	311	<100	<180
MW-21	10/31/2018	ug/l	<62	<85	<81	<78	<61	<130	<75	889	<69	<500	23300	<75	<55	384	<100	<180
MW-21D	3/11/2014	ug/L	<0.67	<0.51	1.5 J	<0.48	10.4	1.8 J	131	0.84 J	1.8 J	13.3	283	0.41 J	<0.69	<0.6	<0.65	<1.3
MW-21D	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	2	<0.2	<0.34	<0.3	<0.33	<0.66
MW-21D	4/20/2015	ug/L	<0.26	<0.2	0.89 J	<0.2	<0.22	<0.29	<0.3	0.3 J	<0.2	<2	29.4	<0.4	<0.21	<0.22	<0.25	<0.51
MW-21D	10/27/2015	ug/L	<0.26	<0.2	0.36 J	<0.2	<0.22	<0.29	<0.3	0.23 J	<0.2	2.2 J	90.8	<0.4	<0.21	<0.22	<0.25	<0.51
MW-21D	4/12/2016	ug/L	<0.2	<0.26	0.49	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	8.6	<0.2	<0.33	<0.27	<0.31	<0.56
MW-21D	10/25/2016	ug/L	<0.5	<0.64	1.2 J	<0.71	<0.6	<0.58	<0.75	<0.78	<0.65	<5	169	<0.5	<0.83	<0.68	<0.79	<1.4
MW-21D	4/12/2017	ug/L	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	0.74 J	<0.28	<2	74.6	<0.3	<0.22	0.39 J	<0.41	<0.72
MW-21D	10/18/2017	ug/L	<0.25	<0.34	1.7	<0.31	<0.24	<0.53	<0.3	0.81 J	<0.28	<2	72.9	<0.3	<0.22	0.38 J	<0.41	<0.72
MW-21D	5/9/2018	ug/l	<0.25	<0.34	1.6	<0.31	<0.24	<0.53	<0.3	0.52 J	<0.28	<2	109	<0.3	<0.22	<0.35	<0.41	<0.72
MW-21D	11/1/2018	ug/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-22D	3/11/2014	ug/L	<0.34	<0.26	2.5	<0.24	7.2	<0.2	180	0.35 J	0.68 J	<2	99.8	<0.2	<0.34	0.33 J	<0.33	<0.66
MW-22D	10/28/2014	ug/L	<0.34	<0.26	3.7	<0.24	<0.26	<0.2	<0.31	0.41 J	<0.36	<2	149	<0.2	<0.34	0.86 J	<0.33	<0.66
MW-22D	4/22/2015	ug/L	0.27 J	<0.2	3.8	<0.2	<0.22	<0.29	<0.3	0.56 J	<0.2	<2	107	<0.4	<0.21	0.68 J	<0.25	<0.51
MW-22D	10/27/2015	ug/L	0.38 J	<0.2	2.9	<0.2	<0.22	<0.29	<0.3	0.4 J	<0.2	<2	156	<0.4	<0.21	0.44 J	<0.25	<0.51
MW-22D	4/12/2016	ug/L	<0.2	<0.26	1.5	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	65.7	<0.2	<0.33	0.35	<0.31	<0.56
MW-22D	10/25/2016	ug/L	<0.2	<0.26	2.2	<0.28	<0.24	<0.23	<0.3	0.38 J	<0.26	<2	122	<0.2	<0.33	0.62 J	<0.31	<0.56
MW-22D	4/10/2017	ug/L	<0.5	<0.68	2	<0.62	<0.48	<1.1	<0.6	0.61 J	<0.55	<4	96.6	<0.6	<0.44	0.79 J	<0.82	<1.4
MW-22D	10/18/2017	ug/L	<0.25	<0.34	2.4	<0.31	<0.24	<0.53	<0.3	0.64 J	<0.28	<2	130	<0.3	<0.22	0.63 J	<0.41	<0.72
MW-22D	5/8/2018	ug/l	<0.25	<0.34	2.9	<0.31	<0.24	<0.53	<0.3	0.93 J	<0.28	<2	106	<0.3	<0.22	0.79 J	<0.41	<0.72
MW-22D	10/31/2018	ug/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-23D	3/12/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-23D	10/28/2014	ug/L	<0.34	<0.26	<0.25	<0.24	<0.26	<0.2	<0.31	<0.33	<0.36	<2	<0.26	<0.2	<0.34	<0.3	<0.33	<0.66
MW-23D	4/21/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-23D	10/27/2015	ug/L	<0.26	<0.2	<0.27	<0.2	<0.22	<0.29	<0.3	<0.22	<0.2	<2	<0.33	<0.4	<0.21	<0.22	<0.25	<0.51
MW-23D	4/13/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-23D	10/26/2016	ug/L	<0.2	<0.26	<0.22	<0.28	<0.24	<0.23	<0.3	<0.31	<0.26	<2	<0.3	<0.2	<0.33	<0.27	<0.31	<0.56
MW-23D	4/10/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-23D	10/17/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-23D	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-23D	11/1/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-24	12/4/2015	ug/L	<1.3	<1	<1.4	<1	<1.1	<1.5	<1.5	2.9	<1	<10	344	<2	<1	<1.1	<1.3	<2.6
MW-24	4/12/2016	ug/L	<1	<1.3	<1.1	<1.4	<1.2	<1.2	<1.5	59.2	<1.3	<10	1160	<1	<1.7	6.1	<1.6	<2.8
MW-24	10/24/2016	ug/L	<4	<5.1	<4.3	<5.7	<4.8	<4.6	<6	22.9	<5.2	<40	1340	<4	<6.6	<5.4	<6.3	<11
MW-24	4/12/2017	ug/L	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	52.7	<5.5	<40	2070	<6	<4.4	8.4 J	<8.2	<14
MW-24	10/18/2017	ug/L	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	49.9	<5.5	<40	1600	7.2 J	<4.4	<6.9	<8.2	<14
MW-24	5/9/2018	ug/l	<5	<6.8	<6.4	<6.2	<4.8	<11	<6	43.5	<5.5	<40	2050	<6	<4.4	<6.9	<8.2	<14
MW-24	11/1/2018	ug/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-25D	12/4/2015	ug/L	<0.26	<0.2	3.4	<0.2	<0.22	<0.29	<0.3	1.3	<0.2	<2	129	<0.4	<0.21	0.95	<0.25	<0.51
MW-25D	4/12/2016	ug/L	<0.2	<0.26	3.4	<0.28	<0.24	<0.23	<0.3	1.1	<0.26	<2	74.8	<0.2	<0.33	0.96	<0.31	<0.56
MW-25D	10/25/2016	ug/L	<0.4	<0.51	2.3	<0.57	<0.48	<0.46	<0.6	0.89 J	<0.52	6.1 J	125	<0.4	<0.66	0.84 J	<0.63	<1.1
MW-25D	4/10/2017	ug/L	<0.5	<0.68	3.1	<0.62	<0.48	<1.1	<0.6	1 J	<0.55	<4	105	<0.6	<0.44	0.88 J	<0.82	<1.4
MW-25D	10/18/2017	ug/L	<0.25	<0.34	3.1	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	116	<0.3	<0.22	0.8 J	<0.41	<0.72
MW-25D	5/8/2018	ug/l	<0.25	<0.34	3.8	<0.31	<0.24	<0.53	<0.3	1.4	<0.28	<2	123	<0.3	<0.22	0.98 J	<0.41	<0.72
MW-25D	10/31/2018	ug/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

Appendix D
Historical VOC Data
Delavan Spray Technologies Site
Bamberg, South Carolina
AECOM Project No. 60314964

Well No.	Sample Date	Units	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	Bromodichloro-methane	Carbon disulfide	Chloroform	cis-1,2-Dichloroethylene	Dibromochloro-methane	Methylene Chloride	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Xylene (total)
MW-26D	12/4/2015	ug/L	<0.26	<0.2	1.9	<0.2	<0.22	<0.29	<0.3	1.1	<0.2	<2	98.1	<0.4	<0.21	1.1	<0.25	<0.51
MW-26D	4/12/2016	ug/L	<0.2	<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	ug/L	<0.2	<0.26	1.6	<0.28	<0.24	<0.23	<0.3	1	<0.26	<2	75	<0.2	<0.33	0.97 J	<0.31	<0.56
MW-26D	4/10/2017	ug/L	<0.25	<0.34	1.9	<0.31	<0.24	<0.53	<0.3	0.97 J	<0.28	<2	75.2	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	10/18/2017	ug/L	<0.25	<0.34	1.9	<0.31	<0.24	<0.53	<0.3	1.1	<0.28	<2	76	<0.3	<0.22	1.1	<0.41	<0.72
MW-26D	5/8/2018	ug/l	<0.25	<0.34	2	<0.31	<0.24	<0.53	<0.3	1.2	<0.28	<2	88.6	<0.3	<0.22	1.2	<0.41	<0.72
MW-26D	10/31/2018	ug/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-27	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	1	<0.3	<0.22	<0.35	<0.41	<0.72
MW-27	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.39 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-27	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-27	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.24 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-28	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	4/12/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	5.4	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/18/2017	ug/L	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	0.56 J	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	5/8/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-29	10/30/2018	ug/l	<0.25	<0.34	<0.32	<0.31	<0.24	<0.53	<0.3	<0.28	<0.28	<2	<0.22	<0.3	<0.22	<0.35	<0.41	<0.72
MW-30D	4/13/2017	ug/L	<0.25	<0.34	2.3	<0.31	<0.24	<0.53	0.41 J	0.64 J	<0.28	<2	75.2	<0.3	<0.22	0.87 J	<0.41	<0.72
MW-30D	10/18/2017	ug/L	<0.25	<0.34	2.1	<0.31	<0.24	<0.53	<0.3	0.43 J	<0.28	<2	88.1	<0.3	<0.22	0.49 J	<0.41	<0.72
MW-30D	5/8/2018	ug/l	<0.25	<0.34	3.1	<0.31	<0.24	0.65 J	<0.3	0.97 J	<0.28	<2	86.7	<0.3	<0.22	1.1	<0.41	<0.72
MW-30D	10/29/2018	ug/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-31D	4/13/2017	ug/L	<0.25	<0.34	3.1	<0.31	0.82 J	<0.53	1.8	<0.28	<0.28	<2	89.2	<0.3	<0.22	0.41 J	<0.41	2.6 J
MW-31D	10/18/2017	ug/L	<0.25	<0.34	4.7	<0.31	<0.24	<0.53	<0.3	2	<0.28	<2	161	<0.3	<0.22	0.61 J	<0.41	<0.72
MW-31D	5/8/2018	ug/l	<0.25	<0.34	6	<0.31	<0.24	<0.53	<0.3	2.5	<0.28	<2	181	<0.3	<0.22	1	<0.41	<0.72
MW-31D	10/29/2018	ug/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-32D	4/13/2017	ug/L	<0.25	<0.34	0.63 J	<0.31	0.27 J	<0.53	0.79 J	<0.28	<0.28	<2	25	<0.3	<0.22	0.36 J	<0.41	1.2 J
MW-32DR	10/18/2017	ug/L	<0.25	<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	ug/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	ug/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
MWT-4	8/24/2012	ug/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	ug/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-1	6/5/2003	ug/L	<1.0	<1.0	<1.0	NA	NA	NA	NA	1	NA	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<3.0
SW-1	1/9/2008	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
SW-1	11/4/2009	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA
SW-1	4/29/2010	ug/L	<1.00	<1.00	<1.00	NA	NA	NA	NA	<1.00	NA	<1.00	<1.00	NA	<1.00	<1.00	<1.00	NA

Notes:
NA - Not available NS - Not sampled