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Subject  
Second Semiannual 2020 Groundwater Report  
Brenntag Southeast, Charleston, South Carolina

ENVIRONMENT

Date  
2 March 2020

Dear Tim Hornosky:

Contact  
Edward Hirshenson

Brenntag Southeast, Inc. has authorized ARCADIS U.S., Inc. to forward the enclosed two copies of the Second Semiannual 2020 Groundwater Report, and an electronic pdf, for the Brenntag Southeast facility in Charleston, South Carolina.

Phone.  
706.828.4421

Please call me at (706) 828-4421 if you have any questions.

Email  
Edward.hirshenson@arcadis.com

Sincerely,

Arcadis U.S., Inc.

Our ref.  
30049825

Edward Hirshenson  
Senior Scientist

Copies  
Mr. Bill Krecker/SCDHEC Water Pollution Enforcement (without report)  
Mr. Shawn Wiram/North America/Brenntag (with report)

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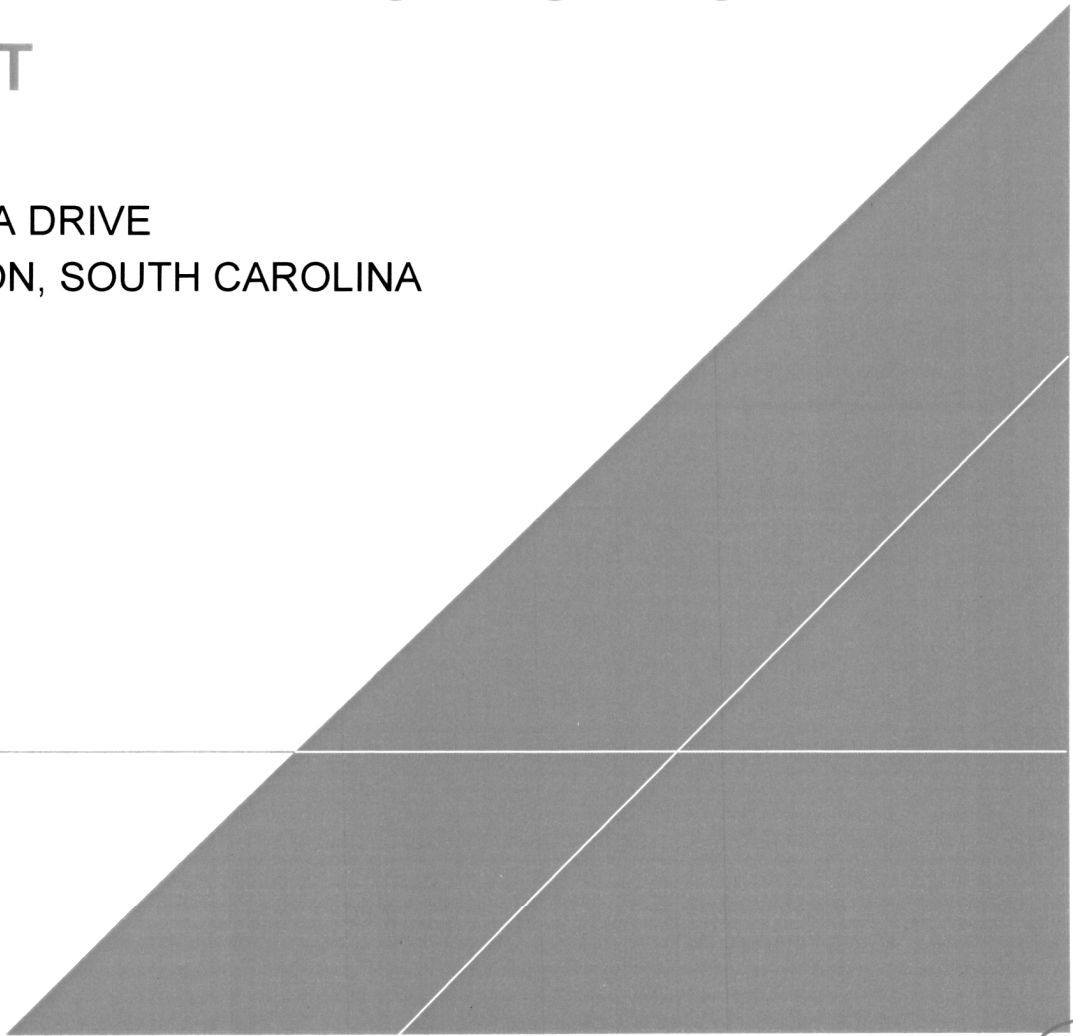
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BRENNTAG SOUTHEAST, INC.

# SECOND SEMI-ANNUAL 2020 GROUNDWATER MONITORING REPORT

4200 AZALEA DRIVE  
CHARLESTON, SOUTH CAROLINA

2 March 2021



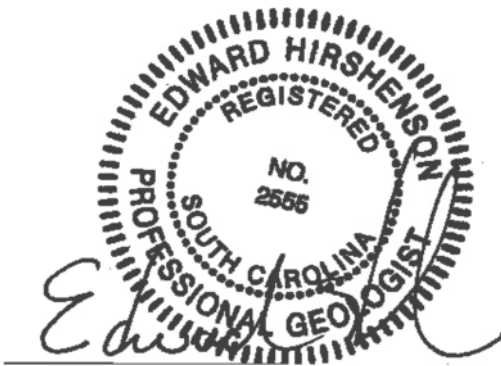
## SECOND SEMI- ANNUAL 2020 GROUNDWATER MONITORING REPORT

Brenntag Southeast, Inc.  
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Charleston, South Carolina

Prepared for:  
Brenntag Southeast

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2 March 2021



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## Second Semi-annual 2020 Groundwater Monitoring Report

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## INTRODUCTION

ARCADIS was retained by Brenntag Southeast, Inc. (Brenntag Southeast) to conduct the second semi-annual 2020 sampling event for the Brenntag Southeast facility in Charleston, South Carolina. Brenntag Southeast monitors groundwater and surface water quality at the facility on a semi-annual basis in accordance with a consent agreement with the South Carolina Department of Health and Environmental Control (SCDHEC). The current network of monitoring wells for the Brenntag Southeast facility includes MW-1, MW-2R, MW-5, MW-6, MW-7, MW-8, MW-13, MW-14, and MW-15 were installed to monitor groundwater impacts, from chlorinated solvents and a mixture of petroleum and solvents, in two areas, respectively; Area #1, located at the Former Solvent Storage Area and Area #2, located at the Former Above Ground Storage Tank Area, as shown on Figure 1.

Brenntag and Burris Environmental Services agreed for the second semiannual 2020 sampling event to collect groundwater levels and groundwater quality samples during the same sampling period and exchange groundwater level data and laboratory results. Groundwater levels and analytical data are collected by Burris Environmental Services from monitor wells MW-4, MW-9, MW-10, MW-11, and MW-12, located on the adjacent William M. Bird & Co., Inc. property and are shown on Figure 1 and other figures in this report. No discussion is made about the groundwater/analytical data from monitor wells located on the adjacent property within this report. Groundwater quality from those wells is reported to SCDHEC under a separate consent agreement with Burris Environmental Services.

## SECOND SEMI-ANNUAL 2020 GROUNDWATER MONITORING

### FIELD ACTIVITIES

#### 72-Hour Aggressive Fluid Vapor Recovery (AFVR)

The South Carolina Department of Health and Environmental Control (SCDHEC) has accepted recommendation to conduct a long term AFVR event at monitor well MW-14. The AFVR event was conducted on September 14 – 17, 2020.

Prior to starting the AFVR, pressure vacuum gauges were installed in monitor wells MW-9 and MW-12 (William M. Bird & Co., Inc.). The vacuum gauges were threaded to the polyvinyl chloride (PVC) caps and placed on the PVC casing within the manhole vaults.

A one-inch PVC stinger was placed inside monitor well MW-14 to capture fluids and vapours. The vacuum reading from the Vac truck was at 25 in Hg (inches of mercury). All fluids were pumped into a tanker and vapours vacuumed through a carbon vessel. During the test, parameters (PID, temperature, relative humidity, and flow) were recorded hourly.

#### GEOPROBE INVESTIGATION AT AREA #2

The SCDHEC approved the Work Plan for Area #2-Rev.1 (dated September 25, 2020) in a correspondence letter from Hornosky to Wiram on September 29, 2020. A soil/groundwater investigation was conducted in the vicinity of monitor well MW-14 if free-phase hydrocarbon were present in soils. The

field activities were conducted from November 16 thru November 20, 2020. Boring locations are shown on Figure 2.

## Soil Sampling at Area #2

Prior to intrusive work, underground utilities were marked by ground penetrating radar (GPR) and drawings from the facility. The subsurface investigation was performed utilizing a geoprobe rig to a depth of approximately 20 feet below land surface (ft bls) which is the approximate depth of the Cooper Marl, a tight silty clayey unit. Soil samples were collected using a macro-core with plastic liner and depth discrete soil samples were directly transferred to laboratory provided containers and placed on ice. Depth discrete soil samples were collected from a depth of 3 ft bls and just above the water table approximately 5 ft bls. Alquot soil samples were placed in glass jars and allowed to equilibrate for organic vapor readings using a photo ionization meter (PID). Soil samples were analyzed for VOCs using EPA Method SW-846 8260B. Lithologic descriptions were described in the field.

Twenty-six borings (B-1 thru B-26) were completed in the main parking lot of the Brenntag facility (Figure 2). Majority of the borings were completed in the vicinity of monitor well MW-14. After completion, all boreholes were filled with neat cement grout to land surface.

## Groundwater Sampling at Area #2

Upon completion of soil borings, groundwater samples were collected next to each soil boring. Groundwater samples (50 samples) were collected using a macro-core water sampler with a three-foot stainless-steel screen attached with a disposable tip. Some locations near the office building of Brenntag, temporary one-inch PVC casing were installed due to low flow entering the well screens. The temporary PVC wells were left in the borings for approximately one hour. Upon reaching discrete depths (7-10 ft bls and 17-20 ft bls), the outer casing was raised to expose the stainless-steel screen to the formation and quality groundwater samples were collected using new tubing and a peristaltic pump. Groundwater samples were collected for VOCs using EPA Method SW-846 8260B. All boreholes were filled with neat cement grout to land surface including the temporary PVC wells which were removed upon completion of collecting groundwater samples. Note boring B-21 (groundwater samples) could not be completed due to numerous underground utilities.

## SECOND SEMI-ANNUAL 2020 GROUNDWATER RESULTS

ARCADIS sampled Brenntag Southeast monitoring wells MW-1, MW-2R, MW-5, MW-6, MW-7, MW-8, MW-13, MW-14, MW-15, and surface water locations SW-1, SW-2, and SW-3 at the Brenntag Southeast facility on December 16, 2020 (the second semiannual 2020 sampling event). Groundwater sampling was completed in accordance with standard ARCADIS sampling protocol. Sampling began by measuring the groundwater elevation of each well. Monitoring wells were sampled using low flow sampling protocols while water quality indicators (pH, temperature, and conductivity) were measured to verify that representative groundwater samples were collected. Groundwater and surface water sampling locations from the second semiannual 2020 sampling event are shown on Figure 1 and listed on Table 1.

Second semi-annual 2020 groundwater elevations are summarized in Table 2. Hydrographs, illustrating water level fluctuations at the monitoring wells, are included as Appendix A. Groundwater elevation data from the sampling event were used to construct a potentiometric map provided as Figure 3. The direction

of groundwater flow at the facility is west towards Brickyard Creek. The Cooper Marl underlies the shallow aquifer system and is an effective regional confining unit inhibiting the deeper migration of groundwater.

Field measurements of pH and conductivity are listed in Table 3. The second semiannual 2020 field measurements are consistent with previously reported water quality measurements. It should be noted, pH for monitor well MW-6 in the last eight sampling events (December 2016, June 2017, December 2017, June 2018, December 2018, June 2019, December 2019, and June 2020) have been reported at 6.4, 7.5, 7.5, 7.5, 8.13, 7.61, 6.72, and 8.34, respectively. The second semiannual 2020 sampling event from monitor well MW-6 indicated a pH at 10.2, slightly higher than previous events. Historical pH measurements for MW-6 have been relatively high. However, pH in monitor well MW-2R decreased from 9.01 to 7.25 for the December 2020 sampling event. Field sampling forms from the second semi-annual 2020 sampling event are included as Appendix B.

Accutest Laboratories in Orlando, Florida (SCDHEC certification # 96038001) analyzed the second semiannual 2020 groundwater samples using EPA method SW-846 8260B. Analytical results are summarized in Table 4. The laboratory report is included as Appendix C.

### Groundwater Flow

Water-level measurements were collected from all monitoring wells in December 2020, prior to groundwater sampling and are presented in Table 2. A potentiometric map is included as Figure 3. Water-level data indicate that the general direction of groundwater flow is west toward Brickyard Creek with an average velocity of 1.98 feet/day (725 feet/year). Groundwater velocity was calculated by determining the hydraulic gradient between upgradient well (MW-8) and downgradient well (MW-6). Hydraulic conductivities were calculated from rising head tests performed by General Engineering Labs in 1991 from monitoring wells MW-1, MW-2, MW-3, and MW-4 with an average hydraulic conductivity of  $5.4 \times 10^{-3}$  cm/sec ( $1.77 \times 10^{-4}$  ft/sec or 15.29 ft/day). An effective porosity of 20% was assumed for the site. Groundwater flow was calculated from MW-8 (8.82) and MW-6 (4.41) with a distance of approximately 180 feet. The hydraulic gradient is calculated to be 0.026 ft/ft.

Water elevation at MW-13 was recorded at 2.52 feet mean sea level (ft msl) and MW-15 was recorded at 4.89 ft msl. It appears that groundwater, in the vicinity of MW-15, located west of Brickyard Creek, discharges to the creek, flowing in an east-southeast direction. Groundwater flow at the facility is flowing to the west.

### Groundwater Quality Results

Second semi-annual 2020 analyses are summarized in Table 4, with previous groundwater analyses. The “J” qualifier reported at other monitoring wells indicates that the result was between the Reporting Limit and Method Detection Limit and is, therefore, an estimated value. Hydrocarbon constituents and less commonly detected organic compounds at the Brenntag Southeast facility are listed as “others”. Definitions of the organic compound abbreviations are listed at the end of the table.

The distribution of dissolved individual volatile organic compounds (VOCs) in groundwater, including trichloroethene (TCE), cis-1, 2-dichloroethene (cis-1,2-DCE), vinyl chloride, and chlorobenzene, as well

## Second Semi-annual 2020 Groundwater Monitoring Report

as total VOCs, are included as Figures 4 through 8, respectively. Graphs of individual VOC trends are included as Appendix D. Surface water analyses are summarized in Table 5.

### Area #1

Area #1 groundwater is impacted with chlorinated solvents downgradient of the Former Solvent Storage Area (see Figure 1). Monitor wells MW-7 and MW-13 were installed downgradient of Area #1 to monitor impacts to groundwater from the release of chlorinated solvents. Dissolved VOCs in groundwater downgradient of the source at Area #1 have shown an overall decreasing trend since discontinuation of the air sparging/soil vapor extraction (AS/SVE) system on September 20, 2001 but have increased from June 2007 to October 2010. A slight increase in VOC concentrations is shown for the second semi-annual 2020 sampling event in monitor well MW-7 and a stable trend in MW-13. The increase is consistent with historic VOC fluctuations. Graphs showing VOC concentrations in wells MW-7 and MW-13 are shown as Figures 9 and 10, respectively.

Second semi-annual 2020 groundwater analyses from monitoring well MW-7 detected TCE (6,350 ug/L), cis-1,2-DCE (48,600 ug/L), 1,1-DCE (318 J ug/L), 1,1-DCA (234 J ug/L), and vinyl chloride (1,910 ug/L). The second semi-annual 2020 analyses are slightly higher compared to previous VOC analyses at this well (Table 4). The relative dominance of cis-1,2-DCE and vinyl chloride in groundwater suggests that natural anaerobic biodegradation is occurring in this area.

Second semi-annual groundwater analyses from monitoring well MW-13 detected TCE (1,160 ug/L), cis-1,2-DCE (24,100 ug/L), and vinyl chloride (1,840 ug/L) for the December 2020 sampling event. The current and historic appearance of TCE degradation products in groundwater indicates that anaerobic biodegradation is reducing the VOCs from groundwater in the vicinity of monitoring well MW-13.

### Volatile Organic Compounds (VOCs)

- Monitoring well MW-1 detected cis-1,2-DCE (15.1 ug/L), 1,1-DCA (0.7J ug/L), chlorobenzene (0.45J ug/L), 1,2-dichlorobenzene (7.7 ug/L), vinyl chloride (39.2 ug/L), benzene (4.1 ug/L), and MCH (1.5 ug/L);
- Monitoring well MW-6 located downgradient of Solvent Tank Farm detected chlorobenzene (8.1 ug/L), acetone (37.7ug/L), benzene (0.63J ug/L), and toluene (0.44J ug/L);
- Monitoring well MW-8 located side gradient of Solvent Tank Farm detected TCE (3.6 ug/L), cis-1,2-DCE (52 ug/L), 1,1-DCE (1 J ug/L), trans-1,2-DCE (0.5 J ug/L), 1,1-DCA (0.5 J ug/L), PCE (0.4J ug/L), chlorobenzene (5.6 ug/L), 1,2-dichlorobenzene (4.6 ug/L), 1,3-dichlorobenzene (0.5J ug/L), 1,4-dichlorobenzene (2 ug/L), vinyl chloride (14.2 ug/L), benzene (0.32J ug/L), and MTBE (0.58 J ug/L);
- Monitoring well MW-15 located west of Brickyard Creek detected no VOC for the December 2020 sampling event.

A Remedial Action Workplan was submitted to the SCDHEC on December 2020 to address various remedial alternatives for remediation of chlorinated volatile organic compounds (CVOC) impacts in soils and groundwater in the vicinity of monitor wells MW-7 and MW-13.

## Area #2

Area #2 groundwater is impacted by a mix of petroleum products and solvents from a former above ground storage tank area as shown on Figure 1. Monitoring well MW-14 was installed directly beneath the former tanks in 2003 to monitor groundwater at the Area #2 source. Remedial activities consisted of removing the above ground storage tank and surface soils in the vicinity of monitor well MW-14. AFVR events have also been conducted at monitor well MW-14. To date, six AFVR events have occurred (2018 thru 2020). Second semi-annual 2020 groundwater analyses from MW-14 detected cis-1,2-DCE (4,820 ug/L), 1,2-dichlorobenzene (568 ug/L), benzene (490 J ug/L), ethylbenzene (6,270 ug/L), toluene (61,800 ug/L), xylenes (58,500 ug/L), MIBK (573J ug/L), MEK (1010J ug/L), and 1,1,1-TCA (226 J ug/L). Groundwater analyses from MW-14 for the December 2020 indicate an increase in concentration for total volatile organic compounds. Although a thin layer of light non-aqueous phase liquid (LNAPL) has intermittently been detected in this well, no LNAPL was detected in MW-14 during this sampling event.

### Volatile Organic Compounds (VOCs) and Hydrocarbon Discussion

- Monitoring well MW-2R, located upgradient of the Area #1 and #2, detected TCE (0.8J ug/L) and cis-1,2-DCE (0.7J ug/L);
- Monitoring well MW-5, located downgradient of the Bird Facility detected no VOCs for the reporting period;
- Monitoring well MW-6 located downgradient of Solvent Tank Farm detected chlorobenzene (8.1 ug/L), benzene (0.63J ug/L), toluene (0.44J ug/L), and acetone (37.7 ug/L) for the December 2020 sampling event;

As stated above for Area #2, chlorinated solvents and hydrocarbon degradation products in groundwater indicate that anaerobic biodegradation is reducing the VOCs in the vicinity of monitoring well MW-14. Distance and concentration plots were constructed to show the relationship of chlorinated solvents and BTEX over time to distance and is include in Appendix E. The plot shows chlorinated solvents and BTEX at the upgradient monitor well (MW-2R), to the source (MW-14), and towards downgradient monitor wells MW-4 and MW-5. Concentrations from the December 2018, June 2019, December 2019, and December 2020 sampling events indicate downgradient monitor wells have low concentrations or no detections of chlorinated solvents and BTEX. This trend indicates ongoing natural bio-attenuation, which is effectively reducing the mass and controlling the migration of dissolved constituents in shallow groundwater.

## Surface Water

All constituents were non-detected in all three surface water samples for the December 2020 sampling event.

## AFVR Results

The SCDHEC has accepted recommendation to conduct a long-term Aggressive Fluid Vapor Recovery (AFVR) event at monitor well MW-14. The AFVR event was conducted on September 14 – 17, 2020. Summary of the 72-hour test is described below:

- Vacuum gauges were installed on two monitor wells at the Bird facility and readings were recorded during the test. All readings were recorded at 0.



## Second Semi-annual 2020 Groundwater Monitoring Report

- A vacuum of 25 inches of Hg (inches of mercury) was recorded at the vac truck during the testing period.
- Total amount of fluids recovered was 3,727 gallons. Approximately 15.3 gallons of mass was recovered. Approximately 95.6 pounds of vapours were recovered.
- Groundwater samples were collected within 19 hours of the test and a second was collected at end of test.

Results of the 72-hour AFVR test was submitted to the SCDHEC in December 2020 and is presently being reviewed.

### Soil/Groundwater Results from Area #2

The SCDHEC approved Workplan for Area #2-Rev.1 on September 29, 2020 to conduct a boring investigation in the vicinity of Monitor Well MW-14 to determine the lateral extent of hydrocarbons.

Twenty-six borings (A2-1 thru A2-26) were completed adjacent and upgradient of monitor well MW-14. Figure 2 depicts the location of the twenty-six borings. At each boring, two soil samples were collected at depths of 3 and 5 feet below land surface for volatile organic compounds (VOC) using EPA Method 8260D. Photoionization readings were recorded during soil samples with a portable PID meter. Groundwater samples were also collected from all borings by offsetting about 2 feet from the soil boring location to a depth of 7-10 feet below land surface (ft bls) and 17-20 ft bls. At several locations, temporary well points were installed due to slow recharge. Upon completion of soil/groundwater sampling, all borings were pressure grouted from the bottom of the borehole to land surface.

### Photoionization Readings of Soils

Photoionization (PID) readings were measured during soil sampling at all boring locations. A Mini-Rae 2000 meter was used to measure vapours. Aliquot soil samples were placed in glass jars and allowed to equilibrate for organic vapor readings. PID readings from all borings are shown on Figure 11 and summary of PID readings are listed below:

- PID readings ranged from 0 to 15,000 ppm (A2-6 at depth of 6 ft bls);
- PID readings adjacent to the warehouse at A2-26 was measured at 14,472 ppm at a depth of 6 ft bls;
- Boring A2-11 at a depth of 7 ft bls was recorded at 1 ppm;
- Boring A2-20 all PID readings were below 0 ppm;

Data from the PID readings indicate the lateral extent of hydrocarbons does not go beyond A2-11 (south of MW-14) and A2-20 (east of MW-14). It should be noted that PID readings were detected at A2-24 (13,884 ppm) at a depth of 19 ft bls-known as the former unloading/loading area from railroad tracks.

### Chlorinated Solvents in Soils

Chlorinated solvents were detected in all borings in the vicinity of monitor well MW-14 as indicated on Figure 12. Chlorinated solvent concentration ranged from 0 ug/kg to 426,210 ug/kg at boring A2-7 at a depth of 5-6 ft bls. Concentrations decreased southward as indicated at borings A2-12 (4 ug/kg at 5-6 ft bls), A2-13 (367 ug/kg), A2-14 (232 ug/kg at 5-6 ft bls), and A2-15 (127 ug/kg). Borings A2-16, A2-17,

and A2-18 was reported at low concentrations to below detection limits. Chlorinated solvents were detected at borings A2-24 (2,284 ug/kg at depth of 5-6 ft bls) and A2-25 (1,385 ug/kg at depth of 5-6 ft bls). Summary of chlorinated solvents in soils are included in Table 6. Laboratory analytical reports of all soils collected is included in Appendix F.

### Hydrocarbons in Soils

Hydrocarbons were detected in all borings in the vicinity of monitor well MW-14 as indicated on Figure 13. Hydrocarbon concentration ranged from 0 ug/kg to a high of 31,778,510 ug/kg at A2-5 at depth of 5-6 ft bls. Concentration of hydrocarbons next to the warehouse was reported at A2-26 (6,864,590 ug/kg at 5-6 ft bls). Boring A2-20 was reported at 56 ug/kg at a depth of 3 ft bls east of monitor well MW-14. Hydrocarbon concentration south of monitor well MW-14 were reported at A2-11 (6 ug/kg at 3 ft bls), A2-12 (2 ug/kg at 5-6 ft bls), A2-13 (293 ug/kg at 5-6 ft bls), A2-14 (5,250 ug/kg at 3 ft bls), and A2-15 (0 ug/kg at 5-6 ft bls). Hydrocarbon concentrations in the vicinity of the Brenntag office and the former unloading/loading railroad tracks were mainly below detection limits. Summary of hydrocarbon constituents are included in Table 6. Laboratory analytical reports are included in Appendix F.

### Chlorinated Solvents in Groundwater

Chlorinated solvents were detected in borings in the vicinity of monitor well MW-14 as indicated on Figure 14. Chlorinated solvent concentrations ranged from below detection limits (A2-11 at a depth of 17-20 ft bls) to 10,484 ug/L (A2-6 at a depth of 7-10 ft bls). Concentrations to the north of monitor well MW-14 ranged from 84 ug/L (A2-1 at a depth of 7-10 ft bls) to 952 ug/L (A2-2 at a depth of 7-10 ft bls). East of monitor well MW-14, concentrations of chlorinated solvents were reported at 19 ug/L (A2-20 at a depth of 7-10 ft bls). Concentrations of chlorinated solvents south of MW-14 were reported at 65 ug/L (A2-12 at a depth of 7-10 ft bls), 13 ug/L (A2-13 at a depth of 7-10 ft bls), and 15 ug/L (A2-14 at a depth of 17-20 ft bls). Chlorinated solvents were reported higher at the former railroad loading/unloading area at concentrations from 12 ug/L (A2-23 at a depth of 17-20 ft bls) to 552,966 ug/L (A2-22 at a depth of 17-20 ft bls). Concentrations decreased downgradient to the Brenntag office as indicated at boring A2-19 (19,291 ug/L). Chlorinated solvent in the vicinity of Brenntag office appears to be originating from the former railroad loading/unloading area and not from monitor well MW-14. Summary of chlorinated solvents in groundwater are included in Table 6. Laboratory analytical reports for chlorinated solvents in groundwater are included in Appendix G.

### Hydrocarbons in Groundwater

Hydrocarbons in groundwater were only detected in the vicinity of monitor well MW-14 as indicated on Figure 15. Hydrocarbon concentrations ranged from 0 ug/L south of monitor well MW-14 to 249,937 ug/L (A2-6 at a depth of 7-10 ft bls). North of monitor well MW-14, hydrocarbon concentrations were reported at 63,831 ug/L (A2-26 at a depth of 7-10 ft bls); east of MW-14 hydrocarbon concentrations was at 227 ug/l (A2-20 at a depth of 7-10 ft bls). Hydrocarbon concentrations were below detection limits in the vicinity of the Brenntag office and at the former railroad loading/unloading area. Summary of hydrocarbons in groundwater are included in Table 6 and laboratory analytical reports for hydrocarbons are included in Appendix G.



Hydrocarbons in soils and groundwater appears to be bounded in silty sands to silty clays sand units from below the asphalt to a depth of approximately 9 ft bls as indicated in cross-section A-A' from boring A2-2 to A2-19 in Figure 16. The silty sands and silty clays in the vicinity A2-18 are less transmissive as evident that no groundwater sample was collected even with the temporary wellpoint left in place for over three hours. Soil cores in the vicinity of A2-15 and southward showed tight silty sands and silty clays. Lithologic description for each boring is depicted in Appendix H.

The lateral extent of the hydrocarbons appears to be approximately 50 ft by 50 ft, from the property line to just east of A2-5 and from the warehouse to boring A2-10. Figure 16 also depicts two separate chlorinated plumes, one in the vicinity of MW-14 and second may be originating from the former railroad loading/unloading area. Figure 17 illustrates cross-section B-B' from the former railroad loading/unloading area to Bird monitor well MW-17 which shows chlorinated solvent concentration higher at boring A2-25 and decreasing downgradient to boring A2-19.

## CONCLUSIONS AND RECOMMENDATIONS

The results of the second semi-annual 2020 groundwater analyses suggest that dissolved VOCs in groundwater continue to degrade prior to discharge to surface water. Groundwater trends over approximately the past 20 years are either decreasing or stable. The attenuation of VOCs suggests that biodegradation processes are removing the VOCs from the groundwater prior to discharging to Brickyard Creek and downgradient well MW-5.

A 72-hour AFVR test concluded high concentrations of hydrocarbons still exist in the vicinity of monitor well MW-14. Groundwater samples were collected from MW-14 approximately seven days after the 72-hour test and indicated a slight rebound.

Results from the geoprobe investigation at Area #2 indicates high concentration of hydrocarbons in the vicinity of monitor well MW-14 (on-site source area) and VOC concentrations. The hydrocarbon in the vicinity of MW-14 appears to be within an area approximately 50 ft by 50 ft at a depth of about 9 ft bls. Brenntag will explore remedial alternatives of Area 2 to accelerate degradation of these on-site impacts. A work plan will be submitted to SCDHEC prior to any proposed investigation and/or remedial activities.

The geoprobe investigation may have revealed a third source area at the railroad loading/unloading area which will be called Area #3. Results of the investigation indicated Area #2 has concentrations of chlorinated solvents in the vicinity of the railroad tracks. Arcadis recommends conducting additional borings just east of A2-24 and A2-25 at the former railroad tracks and borings between the railroad tracks and Industrial Avenue to determine if Area #3 is a source or possibly an offsite source.

ARCADIS will conduct first semi-annual 2021 groundwater sampling from monitoring wells MW-1, MW-2R, MW-5, MW-6, MW-7, MW-8, MW-13, MW-14, MW-15 and surface-water locations SW-1, SW-2, and SW-3.

# TABLES



**Table 1**  
**Second Semiannual 2020 Groundwater Sampling Plan**  
**Brenntag Southeast**  
**Charleston, South Carolina**



Design & Consultancy  
 for natural and  
 built assets

| Sample Location | Purgeables<br>Method 8260 | Indicators <sup>1</sup> |
|-----------------|---------------------------|-------------------------|
| MW-1            | X                         | X                       |
| MW-2R           | X                         | X                       |
| MW-5            | X                         | X                       |
| MW-6            | X                         | X                       |
| MW-7            | X                         | X                       |
| MW-8            | X                         | X                       |
| MW-13           | X                         | X                       |
| MW-14           | X                         | X                       |
| MW-15           | X                         | X                       |
| SW-1            | X                         | X                       |
| SW-2            | X                         | X                       |
| SW-3            | X                         | X                       |

<sup>1</sup> Indicators are temperature, specific conductance, and pH.

SW-1, SW-2 & SW-3 are surface water sampling locations in Brickyard Creek  
 Monitor Well MW-15 installed in May 2012

**Table 2**  
**Groundwater Elevations**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Monitor Well ID | Top of Casing (ft msl) | Date               |                    |                    |                    |                    |                    |                     |                     |                    |
|-----------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--------------------|
|                 |                        | 8/15/1991 (ft msl) | 3/29/1993 (ft msl) | 7/15/1993 (ft msl) | 11/7/1994 (ft msl) | 12/2/1994 (ft msl) | 12/8/1994 (ft msl) | 12/15/1994 (ft msl) | 12/20/1994 (ft msl) | 1/19/1995 (ft msl) |
| MW-1            | 11.74                  | 8.5                | 9.24               | 7.78               | 8.45               | 8.23               | 8.66               | 8.49                | 8.42                | 9.06               |
| MW-2R           | 16.5                   | 12.08              | ---                | ---                | 11.38              | ---                | ---                | ---                 | ---                 | ---                |
| MW-3            | 9.41                   | 8.56               | 8.89               | 7.71               | 8.08               | ---                | ---                | ---                 | ---                 | ---                |
| MW-5            | 12.01                  | 0.22               | 0.26               | -0.11              | 0.83               | ---                | ---                | ---                 | ---                 | ---                |
| MW-6            | 10.62                  | 5.31               | 6.58               | 5.15               | 5.86               | 6.17               | 6.38               | 6.32                | 6.24                | 6.65               |
| MW-7            | 9.09                   | 3.73               | 3.81               | 2.99               | 3.7                | 3.82               | 3.71               | 3.71                | 3.95                | 4.02               |
| MW-8            | 15.16                  | ---                | 10.53              | 8.99               | 9.68               | 9.32               | 9.74               | 9.66                | 9.61                | 10.21              |
| MW-13           | 6.96                   | ---                | ---                | ---                | ---                | ---                | ---                | ---                 | ---                 | ---                |
| MW-14           | 15.17                  | ---                | ---                | ---                | ---                | ---                | ---                | ---                 | ---                 | ---                |

| Monitor Well ID | Top of Casing (ft msl) | Date               |                    |                    |                     |                    |                    |                    |                     |                    |
|-----------------|------------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
|                 |                        | 2/22/1995 (ft msl) | 5/17/1995 (ft msl) | 8/15/1995 (ft msl) | 11/13/1995 (ft msl) | 2/20/1996 (ft msl) | 5/20/1996 (ft msl) | 8/30/1996 (ft msl) | 11/14/1996 (ft msl) | 2/28/1997 (ft msl) |
| MW-1            | 11.74                  | 8.67               | 7.54               | 7.99               | 8.43                | 7.58               | 7.49               | 8.09               | 7.55                | 8.04               |
| MW-2R           | 16.5                   | 11.89              | 10.69              | 11.1               | 11.48               | 10.83              | 10.79              | 11.19              | 10.85               | 11.17              |
| MW-3            | 9.41                   | 9.35               | 7.48               | 8.1                | 8.46                | 7.75               | 7.57               | 8.09               | 7.54                | 8.06               |
| MW-5            | 12.01                  | 0.96               | 0.55               | ---                | 1                   | 0.45               | 0.93               | 1.41               | 1.71                | 1.08               |
| MW-6            | 10.62                  | 6.44               | 5.17               | 5.41               | 6.3                 | 6.01               | 5.27               | 5.76               | 5.51                | 6.07               |
| MW-7            | 9.09                   | 3.7                | 3.33               | 3.4                | ---                 | 3.27               | 3.2                | 3.68               | 3.47                | 3.58               |
| MW-8            | 15.16                  | 10.01              | 8.58               | 9.21               | 9.62                | 9.56               | 8.59               | 9.02               | 8.67                | 9.01               |
| MW-13           | 6.96                   | ---                | ---                | ---                | ---                 | ---                | ---                | ---                | ---                 | ---                |
| MW-14           | 15.17                  | ---                | ---                | ---                | ---                 | ---                | ---                | ---                | ---                 | ---                |

(ft msl) feet above mean sea level

**Table 2**  
**Groundwater Elevations**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Monitor Well ID | Top of Casing (ft msl) | Date              |                    |                     |                    |                    |                   |                     |                    |                    |
|-----------------|------------------------|-------------------|--------------------|---------------------|--------------------|--------------------|-------------------|---------------------|--------------------|--------------------|
|                 |                        | 5/8/1997 (ft msl) | 8/26/1997 (ft msl) | 11/26/1997 (ft msl) | 2/14/1998 (ft msl) | 6/19/1998 (ft msl) | 8/8/1998 (ft msl) | 11/30/1998 (ft msl) | 2/15/1999 (ft msl) | 5/14/1999 (ft msl) |
| MW-1            | 11.74                  | 8.26              | 7.7                | 8.18                | 8.38               | 7.51               | 7.48              | 6.95                | 7.89               | 7.83               |
| MW-2R           | 16.50                  | 11.48             | ---                | 11.39               | ---                | 10.81              | ---               | 10.28               | ---                | 11.05              |
| MW-3            | 9.41                   | 8.38              | ---                | 8.09                | ---                | ---                | ---               | ---                 | ---                | ---                |
| MW-5            | 12.01                  | 1.91              | ---                | 1.75                | ---                | 0.36               | ---               | 0.39                | ---                | 1.91               |
| MW-6            | 10.62                  | 6.2               | 5.31               | 6.08                | 6.06               | 5.02               | 5.1               | 4.8                 | 5.94               | 5.41               |
| MW-7            | 9.09                   | 3.87              | 3.33               | 3.57                | 3.78               | 3.21               | 3.56              | 2.91                | 3.71               | 3.59               |
| MW-8            | 15.16                  | 9.26              | 8.86               | 9.35                | 9.86               | 8.5                | 8.34              | 7.96                | 9.1                | 8.44               |
| MW-13           | 6.96                   | ---               | ---                | ---                 | ---                | ---                | ---               | ---                 | ---                | ---                |
| MW-14           | 15.17                  | ---               | ---                | ---                 | ---                | ---                | ---               | ---                 | ---                | ---                |

| Monitor Well ID | Top of Casing (ft msl) | Date              |                     |                    |                    |                    |                     |                    |                    |                    |
|-----------------|------------------------|-------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|
|                 |                        | 9/3/1999 (ft msl) | 12/27/1999 (ft msl) | 3/16/2000 (ft msl) | 5/31/2000 (ft msl) | 8/11/2000 (ft msl) | 11/10/2000 (ft msl) | 3/16/2001 (ft msl) | 9/20/2001 (ft msl) | 2/25/2002 (ft msl) |
| MW-1            | 11.74                  | 7.04              | 7.87                | 7.70               | 6.52               | 7.71               | 6.81                | 8.12               | 7.52               | 7.31               |
| MW-2R           | 16.50                  | ---               | 11.00               | 11.01              | 10.07              | ---                | 10.32               | 11.55              | 11.19              | 11.03              |
| MW-3            | 9.41                   | ---               | ---                 | ---                | ---                | ---                | ---                 | ---                | ---                | ---                |
| MW-5            | 12.01                  | ---               | 1.62                | 1.33               | 1.34               | 1.15               | 1.32                | 1.45               | 1.23               | 1.3                |
| MW-6            | 10.62                  | 4.99              | 5.94                | 5.69               | 4.43               | 5.79               | 4.79                | 6.37               | 5.46               | 5.76               |
| MW-7            | 9.09                   | 3.77              | 3.56                | 3.47               | 3.44               | 3.67               | 3.33                | 3.8                | 3.88               | 3.45               |
| MW-8            | 15.16                  | 7.85              | 8.75                | 8.72               | 7.68               | 8.38               | 7.91                | 8.65               | 8.45               | 8.22               |
| MW-13           | 6.96                   | ---               | ---                 | ---                | ---                | ---                | ---                 | ---                | 2.37               | 1.66               |
| MW-14           | 15.17                  | ---               | ---                 | ---                | ---                | ---                | ---                 | ---                | ---                | ---                |

(ft msl) feet above mean sea level

**Table 2**  
**Groundwater Elevations**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Monitor Well ID | Top of Casing (ft msl) | Date               |                   |                   |                   |                   |                   |                   |                   |                   |
|-----------------|------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                 |                        | 9/30/2002 (ft msl) | 03/17/03 (ft msl) | 08/26/03 (ft msl) | 02/27/04 (ft msl) | 05/13/04 (ft msl) | 08/26/04 (ft msl) | 04/13/05 (ft msl) | 07/01/05 (ft msl) | 09/06/05 (ft msl) |
| MW-1            | 11.74                  | 8.03               | 8.40              | 7.94              | 6.96              | 7.62              | 7.64              | 8.13              | 7.65              | 7.63              |
| MW-2R           | 16.50                  | 11.72              | 12.11             | 11.32             | 8.54              | 10.97             | 11.51             | 11.48             | 11.38             | 11.05             |
| MW-3            | 9.41                   | ---                | ---               | ---               | ---               | ---               | ---               | ---               | ---               | ---               |
| MW-5            | 12.01                  | 1.68               | 2.19              | 1.22              | 0.92              | 1.16              | 1.36              | 1.92              | 1.82              | 2.20              |
| MW-6            | 10.62                  | 6.35               | 6.59              | 6.24              | 5.33              | 5.40              | 6.04              | 6.26              | 6.16              | 5.35              |
| MW-7            | 9.09                   | 3.76               | 4.01              | 5.53              | 2.83              | 3.20              | 3.61              | 3.79              | 3.82              | 3.80              |
| MW-8            | 15.16                  | 8.03               | 8.51              | 8.92              | 7.98              | 8.80              | 9.31              | 9.41              | 9.79              | 8.65              |
| MW-13           | 6.96                   | 2.06               | 2.34              | 2.19              | -0.55             | 1.53              | 1.97              | 2.09              | 2.25              | 2.24              |
| MW-14           | 15.17                  | ---                | ---               | ---               | 7.97              | 8.87              | 8.82              | 9.40              | 9.30              | 8.92              |

| Monitor Well ID | Top of Casing (ft msl) | Date              |                   |                   |                   |                    |                   |                    |                    |                    |
|-----------------|------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
|                 |                        | 12/20/05 (ft msl) | 02/02/06 (ft msl) | 03/30/06 (ft msl) | 10/04/06 (ft msl) | 1/23/2007 (ft msl) | 8/1/2007 (ft msl) | 3/24/2008 (ft msl) | 8/27/2008 (ft msl) | 3/30/2009 (ft msl) |
| MW-1            | 11.74                  | 7.87              | 7.71              | 7.67              | 8.70              | 8.40               | 7.70              | 7.59               | 7.67               | 4.09               |
| MW-2R           | 16.50                  | 11.40             | 11.12             | 11.04             | 10.87             | 10.69              | 11.39             | 11.15              | 11.77              | 11.21              |
| MW-3            | 9.41                   | ---               | ---               | ---               | ---               | ---                | ---               | ---                | ---                | ---                |
| MW-5            | 12.01                  | 2.20              | 2.09              | 2.23              | 2.28              | 2.81               | 2.56              | 1.97               | 3.02               | 9.64               |
| MW-6            | 10.62                  | 3.24              | 5.96              | 5.47              | 5.08              | 6.41               | 6.04              | 5.94               | 6.36               | 4.73               |
| MW-7            | 9.09                   | 3.87              | 3.70              | 3.75              | 3.76              | 4.14               | 4.09              | 3.76               | 4.11               | 5.44               |
| MW-8            | 15.16                  | 9.01              | 9.03              | 8.93              | 9.53              | 9.59               | 8.22              | 8.89               | 9.55               | 6.55               |
| MW-13           | 6.96                   | 2.62              | 2.47              | 2.33              | 1.87              | 2.93               | 2.84              | 2.04               | 2.85               | 4.75               |
| MW-14           | 15.17                  | 9.29              | 8.75              | 8.74              | 9.13              | 9.47               | 8.47*             | 8.97**             | ---                | 6.58               |

(ft msl) feet above mean sea level

**Table 2**  
**Groundwater Elevations**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Monitor<br>Well ID | Top of Casing<br>(ft msl) | Date                  |                      |                      |                      |                      |                      |                      |                      |                      |
|--------------------|---------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                    |                           | 11/5/2009<br>(ft msl) | 04/30/10<br>(ft msl) | 12/22/10<br>(ft msl) | 05/04/11<br>(ft msl) | 12/28/11<br>(ft msl) | 05/18/12<br>(ft msl) | 10/26/12<br>(ft msl) | 05/24/13<br>(ft msl) | 12/12/13<br>(ft msl) |
| MW-1               | 11.74                     | 6.91                  | 7.31                 | 6.96                 | 7.29                 | 6.63                 | 7.14                 | 6.74                 | 7.89                 | 7.30                 |
| MW-2R              | 16.50                     | 10.71                 | 10.99                | 10.76                | 10.81                | 10.43                | 10.71                | ---                  | ---                  | ---                  |
| MW-2R              | 16.20                     | ---                   | ---                  | ---                  | ---                  | ---                  | ---                  | 10.05                | 11.17                | 10.68                |
| MW-3               | 9.41                      | ---                   | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  |
| MW-5               | 12.01                     | 3.86                  | 2.97                 | 2.10                 | 1.77                 | 2.86                 | 3.12                 | 3.76                 | 4.28                 | 3.37                 |
| MW-6               | 10.62                     | 5.16                  | 5.16                 | 5.48                 | 5.14                 | 5.41                 | 4.82                 | 4.28                 | 4.79                 | 5.84                 |
| MW-7               | 9.09                      | 3.81                  | 3.58                 | 3.54                 | 3.49                 | 3.57                 | 3.84                 | 3.71                 | 4.16                 | 3.81                 |
| MW-8               | 15.16                     | 7.95                  | 8.88                 | 7.75                 | 8.38                 | 7.61                 | 7.86                 | 7.74                 | 9.07                 | 8.12                 |
| MW-13              | 6.96                      | 2.14                  | 1.93                 | 1.96                 | 1.76                 | 1.97                 | 2.26                 | 2.10                 | 2.69                 | 2.21                 |
| MW-14              | 15.17                     | 7.97                  | 9.00                 | 7.77                 | 8.38                 | 6.87                 | 7.15                 | ---                  | ---                  | ---                  |
| MW-14              | 14.92                     | ---                   | ---                  | ---                  | ---                  | ---                  | ---                  | 7.22                 | 8.98                 | 8.11                 |
| MW-15              | 9.03                      | ---                   | ---                  | ---                  | ---                  | ---                  | 4.65                 | 3.66                 | 4.70                 | 4.07                 |

(ft msl) feet above mean sea level

**Table 2**  
**Groundwater Elevations**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Monitor<br>Well ID | Top of Casing<br>(ft msl) | Date                  |                      |                      |                      |                      |                      |                      |                      |                      |
|--------------------|---------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                    |                           | 6/30/2014<br>(ft msl) | 12/22/14<br>(ft msl) | 06/10/15<br>(ft msl) | 12/08/15<br>(ft msl) | 06/28/16<br>(ft msl) | 12/14/16<br>(ft msl) | 06/05/17<br>(ft msl) | 12/26/17<br>(ft msl) | 06/04/18<br>(ft msl) |
| MW-1               | 11.74                     | 6.89                  | 7.29                 | 7.89                 | 7.78                 | 7.20                 | 7.52                 | 7.41                 | 7.49                 | 8.20                 |
| MW-2R              | 16.50                     | ---                   | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  |
| MW-2R ***          | 16.20                     | 10.50                 | 10.73                | 11.55                | 11.63                | 11.06                | 11.19                | 11.43                | 11.12                | 12.05                |
| MW-3               | 9.41                      | ---                   | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  |
| MW-5               | 12.01                     | 3.79                  | 4.86                 | 3.86                 | 4.22                 | 3.88                 | 4.75                 | 3.84                 | 2.61                 | 3.31                 |
| MW-6               | 10.62                     | 4.24                  | 5.78                 | 6.22                 | 6.16                 | 4.58                 | 5.07                 | 4.73                 | 4.49                 | 3.64                 |
| MW-7               | 9.09                      | 3.65                  | 3.97                 | 3.97                 | 4.28                 | 3.65                 | 4.24                 | 3.89                 | 3.43                 | 3.92                 |
| MW-8               | 15.16                     | 8.01                  | 8.68                 | 8.66                 | 9.19                 | 8.38                 | 8.58                 | 7.26                 | 8.81                 | 9.37                 |
| MW-13              | 6.96                      | 1.99                  | 1.93                 | 2.31                 | 2.30                 | 1.91                 | 2.48                 | 1.78                 | 1.50                 | 2.22                 |
| MW-14              | 15.17                     | ---                   | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  | ---                  |
| MW-14 ***          | 14.92                     | 8.08                  | 8.27                 | 8.79                 | 9.49                 | 8.77                 | 8.84                 | 8.33                 | 8.57                 | 9.07                 |
| MW-15              | 9.03                      | 5.01                  | 4.19                 | 6.29                 | 4.63                 | 4.87                 | 6.06                 | 5.29                 | 3.55                 | 6.48                 |

(ft msl) feet above mean sea level



**Table 2**  
**Groundwater Elevations**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Monitor<br>Well ID | Top of Casing<br>(ft msl) | Date                   |                       |                        |                      |                        |
|--------------------|---------------------------|------------------------|-----------------------|------------------------|----------------------|------------------------|
|                    |                           | 12/21/2018<br>(ft msl) | 6/12/2019<br>(ft msl) | 12/20/2019<br>(ft msl) | 6/4/2020<br>(ft msl) | 12/16/2020<br>(ft msl) |
| MW-1               | 11.74                     | 9.02                   | 8.19                  | 7.68                   | 8.44                 | 7.46                   |
| MW-2R              | 16.50                     | ---                    | ---                   | ---                    | ---                  | ---                    |
| MW-2R ***          | 16.20                     | 11.87                  | 11.57                 | 11.29                  | 11.55                | 10.40                  |
| MW-3               | 9.41                      | ---                    | ---                   | ---                    | ---                  | ---                    |
| MW-5               | 12.01                     | 4.57                   | 4.21                  | 2.82                   | 3.64                 | 3.61                   |
| MW-6               | 10.62                     | 4.59                   | 4.31                  | 3.91                   | 4.48                 | 4.14                   |
| MW-7               | 9.09                      | 4.81                   | 4.31                  | 3.64                   | 4.29                 | 4.04                   |
| MW-8               | 15.16                     | 10.79                  | 10.32                 | 8.93                   | 9.91                 | 8.82                   |
| MW-13              | 6.96                      | 2.86                   | 2.40                  | 1.83                   | 2.21                 | 2.52                   |
| MW-14              | 15.17                     | ---                    | ---                   | ---                    | ---                  | ---                    |
| MW-14 ***          | 14.92                     | 10.32                  | 10.10                 | 8.68                   | 9.67                 | 8.77                   |
| MW-15              | 9.03                      | 6.04                   | 8.15                  | 5.47                   | 5.80                 | 4.89                   |

(ft msl) feet above mean sea level

\*\*Approximately 0.01 feet of product was observed on March 24, 2008. Groundwater elevation calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581]

MW-15 was installed on May 16, 2012

\*\*\* MW-2R and MW-14 were resurveyed on October 24, 2012

G:\AProject\Brenntag Southeast\SC000204.0020\_30049825\_services for 2020\Reports\Annual\Tables[table2-waterlevels 2nd 2020.xlsx]hydrographs

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Field Parameter pH |        |         |         |         |         |         |          |          |         |         |
|--------------------|--------|---------|---------|---------|---------|---------|----------|----------|---------|---------|
| Monitor ID         | Date   |         |         |         |         |         |          |          |         |         |
| Well               | 2/6/91 | 8/15/91 | 3/29/93 | 7/15/93 | 11/7/94 | 12/2/94 | 12/15/94 | 12/20/94 | 1/19/95 | 2/22/95 |
| MW-1               | 6.6    | 6.3     | 6.2     |         | 5.7     |         |          |          |         | 6.2     |
| MW-2R              |        | 10.4    |         |         | 9.9     |         |          |          |         |         |
| MW-3               | 6.8    | 6.5     | 6.1     |         |         |         |          |          |         |         |
| MW-5               |        | 7.1     | 7.0     |         |         |         |          |          |         |         |
| MW-6               |        | 11.9    | 11.6    |         | 9.2     |         |          |          |         |         |
| MW-7               |        | 6.8     |         |         | 6.1     |         |          |          |         | 7.1     |
| MW-8               |        |         |         |         |         |         |          |          |         | 6.2     |
| MW-13              |        |         |         |         |         |         |          |          |         |         |
| MW-14              |        |         |         |         |         |         |          |          |         |         |

| Field Parameter pH |         |         |          |         |         |         |          |         |        |         |
|--------------------|---------|---------|----------|---------|---------|---------|----------|---------|--------|---------|
| Monitor ID         | Date    |         |          |         |         |         |          |         |        |         |
| Well               | 5/17/95 | 8/15/95 | 11/13/95 | 2/20/96 | 5/20/96 | 8/30/96 | 11/14/96 | 2/28/97 | 5/8/97 | 8/26/97 |
| MW-1               | 5.6     | 5.8     | 6.1      | 6.0     | 6.2     | 6.2     | 6.2      | 5.9     | 6.6    | 5.4     |
| MW-2R              | 11.6    |         | 11.5     |         | 12.0    |         | 12.4     |         | 11.2   |         |
| MW-3               | 5.1     |         | 6.4      |         | 6.1     |         | 6.2      |         | 6.1    |         |
| MW-5               | 6.6     |         | 7.1      |         | 6.8     |         | 6.9      |         | 6.7    |         |
| MW-6               |         |         |          |         |         |         |          |         |        |         |
| MW-7               | 6.8     | 7.0     | 7.1      | 6.8     | 6.9     | 7.0     | 6.6      | 6.7     | 7.3    | 7.5     |
| MW-8               | 7.5     | 6.8     | 6.6      | 7.6     | 7.6     | 7.3     | 7.2      | 7.2     | 7.8    | 7.5     |
| MW-13              |         |         |          |         |         |         |          |         |        |         |
| MW-14              |         |         |          |         |         |         |          |         |        |         |

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Field Parameter pH |          |         |         |        |          |         |         |        |          |         |
|--------------------|----------|---------|---------|--------|----------|---------|---------|--------|----------|---------|
| Monitor ID         | Date     |         |         |        |          |         |         |        |          |         |
| Well               | 11/26/97 | 2/14/98 | 6/19/98 | 8/8/98 | 11/30/98 | 2/15/99 | 5/14/99 | 9/3/99 | 12/27/99 | 3/16/00 |
| MW-1               | 6.3      | 6.7     | 6.4     | 5.7    | 5.9      | 6.2     | 6.0     | 5.9    | 6.3      | 6.0     |
| MW-2R              | 10.8     |         | 10.3    |        | 10.6     |         | 10.4    |        | 10.8     |         |
| MW-3               | 6.0      |         |         |        |          |         |         |        |          |         |
| MW-5               | 6.7      |         | 7.0     |        | 6.8      |         | 6.7     |        | 6.8      |         |
| MW-6               |          |         |         |        |          |         |         |        | 12.2     | 11.7    |
| MW-7               | 6.7      | 7.0     | 7.2     | 7.1    | 7.0      | 6.9     | 6.9     | 6.7    | 6.7      | 6.7     |
| MW-8               | 6.6      | 6.3     | 6.9     | 7.3    | 7.6      | 7.1     | 7.3     | 7.1    | 7.5      | 7.3     |
| MW-13              |          |         |         |        |          |         |         |        |          |         |
| MW-14              |          |         |         |        |          |         |         |        |          |         |

| Field Parameter pH |         |         |          |         |         |         |         |         |         |         |
|--------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|
| Monitor ID         | Date    |         |          |         |         |         |         |         |         |         |
| Well               | 5/31/00 | 8/11/00 | 11/10/00 | 3/16/01 | 9/20/01 | 2/25/02 | 9/30/02 | 3/17/03 | 8/26/03 | 2/27/04 |
| MW-1               | 6.1     | 6.0     | 6.1      | 7.1     | 6.5     | 6.4     | 5.8     | 6.1     | 9.8     | 6.9     |
| MW-2R              | 9.7     |         | 9.8      | 9.7     | 9.9     | 10.1    | 9.7     | 10.58   | 11.99   | 12.86   |
| MW-3               |         |         |          |         |         |         |         |         |         |         |
| MW-5               | 6.4     |         | 6.6      | 6.8     | 7.7     | 6.9     | 7       | 7.31    | 11.56   | 7.72    |
| MW-6               | 11.2    | 11.5    | 11.9     | 8.7     | 10.1    | 9.7     | 10.4    | 9.81    | 14.03   | 8.78    |
| MW-7               | 6.6     | 6.7     |          | 6.8     | 7.5     | 7       | 7.1     | 7.19    | 11.36   | 7.84    |
| MW-8               | 7.1     | 7.5     | 7.2      | 6.7     | 7.4     | 6.6     | 6.2     | 5.54    | 9.26    | 7.85    |
| MW-13              |         |         |          |         | 7.5     | 6.9     | 6.9     | 7.18    | 10.34   | 7.76    |
| MW-14              |         |         |          |         |         |         |         |         |         | 7.43    |

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Field Parameter pH |         |         |         |         |        |        |          |        |         |         |
|--------------------|---------|---------|---------|---------|--------|--------|----------|--------|---------|---------|
| Monitor ID         | Date    |         |         |         |        |        |          |        |         |         |
| Well               | 5/13/04 | 8/26/04 | 12/2/04 | 4/13/05 | 7/1/05 | 9/6/05 | 12/20/05 | 2/2/06 | 3/30/06 | 10/4/06 |
| MW-1               | 6.42    | 6.2     | 5.92    | 6.71    | 6.69   | 6.65   | 6.70     | 6.75   | 6.36    | 5.97    |
| MW-2R              |         | 10.07   |         | 10.05   |        | 9.85   |          | 10.11  | 10.21   | 9.86    |
| MW-3               |         |         |         |         |        |        |          |        |         |         |
| MW-5               |         | 6.79    |         | 6.95    |        | 6.79   |          | 7.22   | 7.56    | 6.63    |
| MW-6               |         | 10.08   |         | 9.96    |        | 9.57   |          | 9.73   | 9.24    | 9.20    |
| MW-7               | 7.05    | 6.93    | 6.35    | 6.92    | 6.99   | 6.98   | 7.04     | 7.15   | 6.61    | 6.54    |
| MW-8               |         | 6.31    |         | 6.39    |        | 6.47   |          | 7.19   | 6.42    | 6.29    |
| MW-13              | 6.80    | 6.73    | 6.37    | 6.72    | 6.72   | 6.59   | 7.1      | 7.22   | 7.12    | 7.02    |
| MW-14              |         | 7.02    |         | 6.79    |        | 6.81   |          | 6.98   | 6.62    | 6.43    |

| Field Parameter pH |         |        |         |         |         |         |         |          |        |          |
|--------------------|---------|--------|---------|---------|---------|---------|---------|----------|--------|----------|
| Monitor ID         | Date    |        |         |         |         |         |         |          |        |          |
| Well               | 1/23/07 | 8/1/07 | 3/24/08 | 8/27/08 | 3/30/09 | 11/5/09 | 4/30/10 | 12/22/10 | 5/4/11 | 12/28/11 |
| MW-1               | 6.02    | 6.73   | 7.38    | 6.54    | 7.27    | 6.7     | 7.26    | 7.0      | 6.89   | 7.2      |
| MW-2R              | 9.06    | 9.60   | 10.56   | 9.75    | 10.56   | 10.03   | 11.36   | 7.7      | 10.30  | 7.25     |
| MW-3               |         |        |         |         |         |         |         |          |        |          |
| MW-5               | 6.68    | 6.81   | 7.86    | 6.85    | 7.01    | 6.96    | 7.60    | 7.21     | 6.84   | 7.03     |
| MW-6               | 9.30    | 11.59  | 10.9    | 9.23    | 8.06    | 10.1    | 10.51   | 7.49     | 11.20  | 12.31    |
| MW-7               | 6.62    | 7.11   | 7.47    | 6.73    | 7.43    | 6.92    | 7.24    | 7.05     | 6.81   | 7.2      |
| MW-8               | 6.26    | 6.59   | 7.2     | 6.38    | 6.75    | 6.14    | 6.79    | 6.54     | 6.14   | 6.72     |
| MW-13              | 7.26    | 6.87   | 7.4     | 7.18    | 7.45    | 7.09    | 7.37    | 7.03     | 6.84   | 7.17     |
| MW-14              | 6.47    | NA     | NA      | NA      | 7.20    | 6.81    | 7.15    | 6.95     | 5.75   | 6.99     |

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Field Parameter pH |         |          |         |          |         |          |         |         |         |          |
|--------------------|---------|----------|---------|----------|---------|----------|---------|---------|---------|----------|
| Monitor ID<br>Well | Date    |          |         |          |         |          |         |         |         |          |
|                    | 5/18/12 | 10/26/12 | 5/24/13 | 12/12/13 | 6/30/14 | 12/22/14 | 6/10/15 | 12/8/15 | 6/28/16 | 12/14/16 |
| MW-1               | 6.96    | 6.4      | 6.22    | 6.65     | 6.38    | 6.50     | 6.45    | 6.8     | 7.24    | 6.48     |
| MW-2R              | 10.47   | 8.71     | 10.23   | 7.19     | 10.19   | 8.73     | 7.91    | 9.89    | 10.13   | 6.85     |
| MW-3               |         |          |         |          |         |          |         |         |         |          |
| MW-5               | 7.01    | 6.99     | 6.97    | 7.53     | 6.78    | 6.95     | 6.67    | 6.87    | 7.36    | 6.63     |
| MW-6               | 12.81   | 8.74     | 8.7     | 12.28    | 11.4    | 11.76    | 10.4    | 6.87    | 12.6    | 6.40     |
| MW-7               | 7.14    | 6.72     | 6.75    | 6.91     | 7.54    | 6.55     | 6.79    | 6.92    | 7.21    | 6.74     |
| MW-8               | 5.90    | 6.43     | 6.08    | 6.03     | 6.11    | 5.42     | 6.1     | 6.3     | 6.12    | 6.13     |
| MW-13              | 7.06    | 6.85     | 6.59    | 6.92     | 6.93    | 6.68     | 6.9     | 6.89    | 7.31    | 6.68     |
| MW-14              | 6.92    | 6.90     | 6.68    | 6.89     | 6.63    | 6.62     | 6.72    | 6.92    | 7.17    | 6.68     |
| MW-15              | 7.17    | 6.88     | 6.39    | 6.35     | 6.44    | 5.92     | 6.65    | 6.52    | 7.25    | 6.46     |

| Field Parameter pH |        |          |        |          |         |          |        |          |  |
|--------------------|--------|----------|--------|----------|---------|----------|--------|----------|--|
| Monitor ID<br>Well | Date   |          |        |          |         |          |        |          |  |
|                    | 6/5/17 | 12/26/17 | 6/4/18 | 12/21/18 | 6/12/19 | 12/20/19 | 6/4/20 | 12/16/20 |  |
| MW-1               | 5.98   | 6.11     | 5.99   | 6.85     | 6.07    | 6.91     | 6.8    | 7.15     |  |
| MW-2R              | 7.4    | 6.79     | 8.97   | 9.79     | 10.00   | 6.96     | 9.01   | 7.25     |  |
| MW-3               |        |          |        |          |         |          |        |          |  |
| MW-5               | 7.57   | 6.74     | 6.66   | 7.27     | 6.11    | 6.94     | 7.01   | 6.86     |  |
| MW-6               | 7.54   | 7.54     | 7.50   | 8.13     | 7.61    | 6.72     | 8.34   | 10.24    |  |
| MW-7               | 6.72   | 6.79     | 6.41   | 6.98     | 7.00    | 6.88     | 6.84   | 7.14     |  |
| MW-8               | 5.75   | 6.53     | 5.38   | 6.53     | 5.53    | 6.36     | 6.41   | 6.51     |  |
| MW-13              | 7.19   | 7.82     | 6.52   | 7.14     | 6.27    | 6.91     | 7.02   | 7.26     |  |
| MW-14              | 7.36   | 6.58     | 6.31   | 7.19     | 6.70    | 7.01     | 6.85   | 6.94     |  |
| MW-15              | 7.54   | 6.66     | 6.45   | 6.93     | 6.44    | 6.82     | 6.71   | 7.24     |  |

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Field Parameter Specific Conductance (µmhos/cm) |        |         |         |         |         |         |          |          |         |         |
|---|--------|---------|---------|---------|---------|---------|----------|----------|---------|---------|
| Monitor ID                                      | Date   |         |         |         |         |         |          |          |         |         |
| Well  | 2/6/91 | 8/15/91 | 3/29/93 | 7/15/93 | 11/7/94 | 12/2/94 | 12/15/94 | 12/20/94 | 1/19/95 | 2/22/95 |
| MW-1  | 2044   | 1610    | 2140    |         | 2680    |         |          |          |         | 3080    |
| MW-2R   |        | 1410    |         |         | 3400    |         |          |          |         |         |
| MW-3  | 1669   | 21800   | 880     |         |         |         |          |          |         |         |
| MW-5  |        | 324     | 2720    |         |         |         |          |          |         |         |
| MW-6  |        | 268     | 1850    |         | 1560    |         |          |          |         |         |
| MW-7  |        | 225     |         |         | 2860    |         |          |          |         | 4210    |
| MW-8  |        |         | 3980    |         |         |         |          |          |         | 2770    |
| MW-13   |        |         |         |         |         |         |          |          |         |         |
| MW-14   |        |         |         |         |         |         |          |          |         |         |

| Field Parameter Specific Conductance (µmhos/cm) |         |         |          |         |         |         |          |         |        |         |
|---|---------|---------|----------|---------|---------|---------|----------|---------|--------|---------|
| Monitor ID                                      | Date    |         |          |         |         |         |          |         |        |         |
| Well  | 5/17/95 | 8/15/95 | 11/13/95 | 2/20/96 | 5/20/96 | 8/30/96 | 11/14/96 | 2/28/97 | 5/8/97 | 8/26/97 |
| MW-1  | 5580    | 1440    | 1032     | 1600    | 735     | 976     | 1250     | 798     | 392    | 958     |
| MW-2R   | 4390    |         | 2940     |         | 3070    |         | 2920     |         | 1750   |         |
| MW-3  | 1630    |         | 1171     | 719     |         |         | 1297     |         | 977    |         |
| MW-5  | 16100   |         | 3900     |         | 6030    |         | 12370    |         | 6970   |         |
| MW-6  |         |         |          |         |         |         |          |         |        |         |
| MW-7  | 4010    | >20000  | 3200     | 2900    | 2610    | 2760    | 2460     | 4120    | 3320   | 4040    |
| MW-8  | 4600    | 2360    | 2480     | 2730    | 2430    | 2510    | 2500     | 2790    | 2830   | 2610    |
| MW-13   |         |         |          |         |         |         |          |         |        |         |
| MW-14   |         |         |          |         |         |         |          |         |        |         |

µmhos/cm = micromhos/centimeter

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

**Field Parameter Specific Conductance (µmhos/cm)**

| Monitor ID<br>Well | Date     |         |         |        |          |         |         |        |          |         |
|--------------------|----------|---------|---------|--------|----------|---------|---------|--------|----------|---------|
|                    | 11/26/97 | 2/14/98 | 6/19/98 | 8/8/98 | 11/30/98 | 2/15/99 | 5/14/99 | 9/3/99 | 12/27/99 | 3/16/00 |
| MW-1               | 769      | 465     | 1062    | 1052   | 1264     | 5070    | 1123    | 1486   | 1259     | 1065    |
| MW-2R              | 2080     |         | 1621    |        | 1356     |         | 1325    |        | 1953     |         |
| MW-3               | 1085     |         |         |        |          |         |         |        |          |         |
| MW-5               | 4040     |         | 5450    |        | 7160     |         | 8600    |        | 8690     |         |
| MW-6               |          |         |         |        |          |         |         |        | 2720     | 2440    |
| MW-7               | 3540     | 3530    | 2850    | 2490   | 2330     | 2700    | 2610    | 2220   | 2790     | 2460    |
| MW-8               | 2640     | 1810    | 2330    | 2560   | 2060     | 1832    | 1990    | 1790   | 2440     | 1937    |
| MW-13              |          |         |         |        |          |         |         |        |          |         |
| MW-14              |          |         |         |        |          |         |         |        |          |         |

**Field Parameter Specific Conductance (µmhos/cm)**

| Monitor ID<br>Well | Date    |         |          |         |         |         |         |         |         |         |
|--------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|
|                    | 5/31/00 | 8/11/00 | 11/10/00 | 3/16/01 | 9/20/01 | 2/25/02 | 9/30/02 | 3/17/03 | 8/26/03 | 2/27/04 |
| MW-1               | 2650    | 981     | 1797     | 220     | 634     | 1780    | 130     | 122     | 870     | 1632    |
| MW-2R              | 1186    |         | 867      | 762     | 770     | 519     | 99      | 185     | 1080    | 1411    |
| MW-3               |         |         |          |         |         |         |         |         |         |         |
| MW-5               | 14850   |         | 10260    | 9450    | 775     | 1560    | 1370    | 297     | 5010    | 5693    |
| MW-6               | 2570    | 2380    | 2610     | 892     | 1343    | 1060    | 90      | 102     | 1310    | 1107    |
| MW-7               | 2200    | 1915    | 2060     | 2520    | 2975    | 2940    | 245     | 265     | 2630    | 2872    |
| MW-8               | 1806    | 1897    | 1904     | 187     | 357     | 198     | 260     | 16      | 491     | 122     |
| MW-13              |         |         |          |         | 2800    | 2340    | 211     | 199     | 2160    | 1968    |
| MW-14              |         |         |          |         |         |         |         |         |         | 1130    |

µmhos/cm = micromhos/centimeter

**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

**Field Parameter Specific Conductance (µmhos/cm)**

| Monitor ID<br>Well | Date    |         |         |         |        |        |          |        |         |         |
|--------------------|---------|---------|---------|---------|--------|--------|----------|--------|---------|---------|
|                    | 5/13/04 | 8/26/04 | 12/2/04 | 4/13/05 | 7/1/05 | 9/6/05 | 12/20/05 | 2/2/06 | 3/30/06 | 10/4/06 |
| MW-1               | 1477    | 2783    | 1530    | 2590    | 50     | 3450   | 1470     | 2210   | 1820    | 770     |
| MW-2R              |         | 815     |         | 1075    |        | 1071   |          | 1020   | 1350    | 1300    |
| MW-3               |         |         |         |         |        |        |          |        |         |         |
| MW-5               |         | 1326    |         | 3720    |        | 3470   |          | 8100   | 6930    | 13730   |
| MW-6               |         | 943     |         | 766     |        | 647    |          | 790    | 880     | 960     |
| MW-7               | 1974    | 2578    | 2300    | 1930    | 40     | 1750   | 2080     | 2230   | 2330    | 2300    |
| MW-8               |         | 454     |         | 229     |        | 326    |          | 1130   | 560     | 960     |
| MW-13              | 1536    | 2333    | 2600    | 1357    | 1420   | 1296   | 790      | 1100   | 1170    | 1190    |
| MW-14              |         | 1790    |         | 1354    |        | 1401   |          | 1900   | 1810    | 1250    |

**Field Parameter Specific Conductance (µmhos/cm)**

| Monitor ID<br>Well | Date    |        |         |         |         |         |         |          |        |          |
|--------------------|---------|--------|---------|---------|---------|---------|---------|----------|--------|----------|
|                    | 1/23/07 | 8/1/07 | 3/24/08 | 8/27/08 | 3/30/09 | 11/5/09 | 4/30/10 | 12/22/10 | 5/4/11 | 12/28/11 |
| MW-1               | 840     | 903    | 3000    | 3200    | 1120    | 2050    | 1080    | 2630     | 2160   | 3190     |
| MW-2R              | 1220    | 754    | 1500    | 663     | 860     | 756     | 1950    | 609      | 1590   | 440      |
| MW-3               |         |        |         |         |         |         |         |          |        |          |
| MW-5               | 8760    | 15500  | 6100    | 15700   | 1140    | 23700   | 10300   | 19300    | 12100  | 30000    |
| MW-6               | 970     | 2550   | 910     | 950     | 1050    | 669     | 712     | 20200    | 1230   | 1940     |
| MW-7               | 2570    | 2280   | 1900    | 2470    | 2120    | 1870    | 2060    | 1690     | 2090   | 2400     |
| MW-8               | 140     | 415    | 1000    | 459     | 434     | 271     | 770     | 573      | 385    | 741      |
| MW-13              | 930     | 1940   | 1800    | 880     | 2380    | 1960    | 2080    | 1670     | 2200   | 7.17     |
| MW-14              | 1230    | NA     | NA      | NA      | 1360    | 1980    | 1960    | 1770     | 2050   | 1.77     |

µmhos/cm = micromhos/centimeter



**Table 3**  
**Summary of Measured Field Parameters**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 12/21/2020)**

| Field Parameter Specific Conductance (µmhos/cm) |         |          |         |          |         |          |         |         |         |          |
|---|---------|----------|---------|----------|---------|----------|---------|---------|---------|----------|
| Monitor ID<br>Well                              | Date    |          |         |          |         |          |         |         |         |          |
|   | 5/18/12 | 10/26/12 | 5/24/13 | 12/12/13 | 6/30/14 | 12/22/14 | 6/10/15 | 12/8/15 | 6/28/16 | 12/14/16 |
| MW-1  | 1500    | 6        | 701     | 479      | 605     | 331      | 291     | 979     | 513     | 6.48     |
| MW-2R   | 951     | 557      | 1310    | 10       | 1430    | 898      | 562     | 1190    | 692     | 489      |
| MW-3  |         |          |         |          |         |          |         |         |         |          |
| MW-5  | 28100   | 18800    | 18000   | 21000    | 20500   | 13900    | 11000   | 5890    | 13400   | 9350     |
| MW-6  | 3210    | 1160     | 1020    | 2550     | 1890    | 2260     | 556     | 5660    | 2130    | 9370     |
| MW-7  | 2120    | 2080     | 1840    | 1990     | 2       | 1970     | 1990    | 2300    | 1800    | 1880     |
| MW-8  | 94      | 383      | 1       | 159      | 371     | 252      | 300     | 1060    | 398     | 515      |
| MW-13   | 6150    | 1840     | 688     | 1760     | 2400    | 1840     | 1610    | 1870    | 1880    | 2070     |
| MW-14   | 1650    | 2240     | 1460    | 2030     | 1790    | 2200     | 2020    | 1690    | 1860    | 2140     |
| MW-15   | 565     | 812      | 434     | 470      | 685     | 1080     | 1030    | 978     | 750     | 783      |

| Field Parameter Specific Conductance (µmhos/cm) |        |          |        |          |         |          |        |          |  |
|---|--------|----------|--------|----------|---------|----------|--------|----------|--|
| Monitor ID<br>Well                              | Date   |          |        |          |         |          |        |          |  |
|   | 6/5/17 | 12/26/17 | 6/4/18 | 12/21/18 | 6/12/19 | 12/20/19 | 6/4/20 | 12/16/20 |  |
| MW-1  | 307    | 300      | 588    | 790      | 611     | 1310     | 331    | 1850     |  |
| MW-2R   | 335    | 388      | 561    | 822      | 295     | 509      | 620    | 521      |  |
| MW-3  |        |          |        |          |         |          |        |          |  |
| MW-5  | 15900  | 13600    | 6500   | 2770     | 405     | 21700    | 4540   | 13500    |  |
| MW-6  | 15600  | 1410     | 282    | 549      | 384     | 667      | 828    | 708      |  |
| MW-7  | 1950   | 2109     | 1390   | 1770     | 1249    | 1900     | 1910   | 2130     |  |
| MW-8  | 236    | 291      | 260    | 412      | 280     | 479      | 497    | 686      |  |
| MW-13   | 15000  | 1350     | 1370   | 1680     | 1280    | 1080     | 1770   | 1870     |  |
| MW-14   | 1970   | 1980     | 1100   | 1710     | 1120    | 1170     | 1120   | 1190     |  |
| MW-15   | 199    | 668      | 561    |          | 262     | 249      | 527    | 342      |  |

µmhos/cm = micromhos/centimeter

**Table 4**  
**Summary of Groundwater Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Well Number | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | 1,1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | 1,2-DB ug/L | 1,3-DB ug/L | 1,4-DB ug/L | VC ug/L | Others mg/L                                 |
|-------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|-------------|-------------|-------------|---------|---|
| MW-1        | 2/6/91       | 64.0         |                | 87.0           | <20          | 98.0         | 316.0    | 54.0     | <20     | <20     | <20         | <20         | <20         | 638.00  | B(233), T(68)                               |
|             | 8/15/91      | 121.0        |                | 127.0          | <20          | 165.0        | 286.0    | 53.0     | <20     | <20     | 32.0        | <20         | <20         | 971.00  | B(525), T(40)                               |
|             | 3/30/93      | 20.0         | 1390.0         | 16.0           | <5           | 61.0         | 7.0      | <5       | <5      | 46.0    | 3.0         | <5          | <5          | 94.00   | B(47), T(6)                                 |
|             | 11/7/94      | 7.0          | 16.0           | 1.0            | 24.0         | 36.0         | 11.0     | 2.0      | <1      | 0.016   | <1          | <1          | <1          | 20.00   |   |
|             | 2/22/95      | 6.0          | 12.0           | <1             | 24.0         | 20.0         | 10.0     | 3.0      | <1      | 16.0    | <1          | <1          | <1          | 26.00   |   |
|             | 5/18/95      | 7.0          | 16.0           | <5             | 32.0         | 60.0         | 6.0      | <5       | <5      | 37.0    | <5          | <5          | <5          | 52.00   | B(3), T(120), X(6)                          |
|             | 8/15/95      | 3.0          | 7.0            | 2.0            | 6.0          | 33.0         | 6.0      | 2.0      | <1      | 20.0    | <1          | <1          | <1          | 16.00   |   |
|             | 11/13/95     | <5           | 7.0            | <5             | <5           | 13.0         | <5       | <5       | <5      | 11.0    | <5          | <5          | <5          | -0.010  | T(18)                                       |
|             | 2/20/96      | <1           | 86.0           | 4.0            | 6.0          | 24.0         | 6.0      | 2.0      | <1      | 13.0    | <1          | <1          | <1          | <1      | B(6), T(67), X(3)                           |
|             | 5/20/96      | <1           | 38.0           | <1             | <1           | 11.0         | <1       | <1       | <1      | 5.0     | <1          | <1          | <1          | <1      | B(1), T(7)                                  |
|             | 8/30/96      | <1           | 18.0           | 3.0            | <1           | 24.0         | 3.0      | <1       | <1      | 9.0     | <1          | <1          | <1          | <1      | 36.00                                       |
|             | 11/14/96     | <1           | 99.0           | 5.0            | 5.0          | 27.0         | 6.0      | 2.0      | <1      | 5.0     | <1          | <1          | <1          | <1      | 67.00                                       |
|             | 2/28/97      | <1           | 20.0           | <1             | <1           | 10.0         | 2.0      | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(8), T(43), X(1)                           |
|             | 5/8/97       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | 14.00                                       |
|             | 8/26/97      | <1           | 12.0           | 9.0            | 2.0          | 34.0         | 2.0      | <1       | <1      | 9.0     | <1          | <1          | <1          | 245.00  |   |
|             | 11/26/97     | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <10     | <5          | <5          | <5          | <5      | <1  |
|             | 2/14/98      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <5      | <2  |
|             | 6/19/98      | <5           | 9.0            | <5             | <5           | <5           | <5       | <5       | <5      | <10     | <5          | <5          | <5          | <5      | 15.00                                       |
|             | 8/8/98       | <5           | 14.0           | <5             | <5           | <5           | <5       | <5       | <5      | <10     | <5          | <5          | <5          | <5      | 19.00                                       |
|             | 11/30/98     | <5           | 129.0          | <5             | <5           | 15.0         | <5       | <5       | <5      | <10     | <5          | <5          | <5          | <5      | 135.00                                      |
|             | 2/15/99      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <10     | <5          | <5          | <5          | <5      | <2  |
|             | 5/15/99      | <5           | 15.0           | <5             | <5           | 9.0          | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <5      | 18.00                                       |
|             | 9/3/99       | <5           | 66.0           | <5             | <5           | 12.0         | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <5      | 190.00                                      |
|             | 12/27/99     | <2           | 37.0           | <2             | <2           | 5.0          | <2       | <2       | <2      | <2      | <2          | <2          | <2          | <2      | 27.00                                       |
|             | 3/16/00      | <1           | 37.0           | <1             | 1.0          | 11.0         | 1.0      | <1       | <1      | <1      | <1          | <1          | <1          | <1      | 64.00                                       |
|             | 5/31/00      | 9.0          | 650.0          | 13.0           | <1           | 37.0         | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(5), T(2)                                  |
|             | 8/11/00      | 9.0          | 32.0           | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(33), T(18), X(4.6)                        |
|             | 11/10/00     | 2.0          | 210.0          | <2             | <2           | 21.0         | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | B(3)  |
|             | 3/16/01      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | B(15), T(9)                                 |
|             | 9/20/01      | <2           | 7.0            | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 8.00  |
|             | 10/24/01     | <2           | 7.0            | <2             | <2           | 3.0          | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 13.00                                       |
|             | 11/19/01     | 3.0          | 420.0          | 6.0            | <2           | 22.0         | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 580.00                                      |
|             | 12/20/01     | <2           | 6.0            | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | B(23) T(6)                                  |
|             | 1/30/02      | <2           | 5.0            | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 12.00                                       |
|             | 2/25/02      | <2           | 11.0           | <2             | <2           | 3.0          | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 9.00  |
|             | 9/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 14.00                                       |
|             | 3/17/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 4.00  |
|             | 8/26/03      | <2           | 2.0            | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 2.00  |
|             | 2/27/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 6.00  |
|             | 5/13/04      | <2           | 3.0            | <2             | <2           | 3.0          | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 5.00  |
|             | 8/26/04      | <2           | 40.0           | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <10     | 14.00                                       |
|             | 12/3/04      | <1           | 2.0            | <1             | <1           | 2.0          | <1       | <1       | <1      | <1      | <10         | <10         | <10         | <10     | 240.00                                      |
|             | 4/13/05      | <1           | 4.0            | <1             | <1           | 3.0          | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(9), T(3)                                  |
|             | 7/1/05       | <2           | 170.0          | <2             | <2           | 6.0          | 2.0      | <2       | <2      | <2      | <2          | <2          | <2          | <2      | B(1.3)                                      |
|             | 9/6/05       | <1           | 69.0           | <1             | <1           | 7.0          | <1       | <1       | <1      | 4.0     | 2.0         | <1          | <1          | <1      | B(2.7), 2-CHT(2.5), T(1), X(2)              |
|             | 12/20/05     | <1           | 42.0           | <1             | <1           | 4.0          | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(1.3)                                      |
|             | 2/2/06       | <1           | 2.8            | 1.2            | <1           | <1           | 5.9      | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(6.3), T(3.8)                              |
|             | 3/30/06      | <5           | 13.0           | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <5      | B(7.5), 2-CHT(4.1), EB(1.1), T(3.2), X(4.6) |
|             | 10/4/06      | <1           | 27.0           | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | 2-CHT(1.6), T(1.3), X(2.1)                  |
|             | 1/23/07      | <1           | 15.0           | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | EB (3.2), N (32), 1,2,4-TMB (1.1), X (8.8)  |
|             | 8/1/07       | <1           | 1.4            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(1.2)                                      |
|             | 3/24/08      | 2.0          | 26.0           | <1             | <1           | <1           | 120.0    | <1       | <1      | <1      | <1          | <1          | <1          | <1      | 2-CHT(1.1), T(5.5)                          |
|             | 8/27/08      | 6.0          | 280.0          | 3.0            | <1           | 4.0          | 110.0    | <1       | <1      | <1      | <1          | <1          | <1          | <1      | B(1), 2-CHT(1.1), T(1.4)                    |
|             | 3/30/09      | 2.0          | 119.0          | <1             | <1           | <1           | 42.0     | <1       | <1      | <1      | <1          | <1          | <1          | <1      | 1,2-DCE(127)                                |
|             | 11/5/09      | 4.0          | J 232.0        | <5             | <5           | 2.2          | J 65.0   | <5       | 1.3     | J <1    | <5          | <5          | <5          | <5      | 18.20                                       |
|             | 4/30/10      | 1.0          | 82.0           | 0.5            | J <1         | 0.7          | J 32.0   | <1       | 2.1     | J <2    | 0.3         | J <1        | <1          | 5.60    | T(0.53 J)                                   |



**Table 4**  
**Summary of Groundwater Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Well Number    | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | t-1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | 1,2-DB ug/L | 1,3-DB ug/L | 1,4-DB ug/L | VC ug/L | Others mg/L                                   |
|----------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|-------------|-------------|-------------|---------|---|
| MW-ZR (cont'd) | 12/8/15      | <1           | 2.1            | 1.0            | <1           | <1           | 1.9      | <1       | <1      | <2      | <1          | <1          | <1          | <1      | EB(7.6), IPB(0.26J), X(9.1)                   |
|                | 6/28/16      | <1           | 2.2            | 0.9            | J            | <1           | 1.4      | <1       | <1      | <2      | <1          | <1          | <1          | <1      | EB(0.8J), T(0.29J), X(1.6J)                   |
|                | 12/14/16     | <1           | 1.0            | J              | <1           | <1           | 1.0      | J        | <1      | <2      | <1          | <1          | <1          | <1      |   |
|                | 6/5/17       | <1           | 0.7            | J              | 0.3          | J            | <1       | 0.9      | J       | <1      | <2          | <1          | <1          | <1      |   |
|                | 12/26/17     | <1           | 0.7            | J              | <1           | <1           | <1       | 0.9      | J       | <1      | <2          | <1          | <1          | <1      |   |
|                | 6/4/18       | 1.0          | 2.2            | <1             | <1           | <1           | 1.9      | <1       | <1      | <2      | <1          | <1          | <1          | <1      | EB(0.41J), X(0.93 J)                          |
|                | 12/21/18     | <1           | 1.1            | 0.4            | J            | <1           | 1.1      | <1       | <1      | <1      | <1          | <1          | <1          | <1      | EB(17.6), IPB(1), X(49.8)                     |
|                | 6/12/19      | <1           | 1.3            | 0.3            | J            | <1           | 1.0      | <1       | <1      | <1      | <1          | <1          | <1          | <1      | EB(1.6), X(2.5)                               |
|                | 12/20/19     | <1           | 29.6           | <1             | <1           | <1           | 6.0      | <1       | <1      | <2      | <1          | <1          | <1          | 0.73    | EB(0.49J), X(1.1 J)                           |
|                | 6/4/20       | <1           | 1.8            | 0.7            | J            | <1           | 1.2      | <1       | <1      | <2      | <1          | <1          | <1          | <1      | EB(0.58J)                                     |
|                | 12/16/20     | <1           | 0.7            | J              | <1           | <1           | 0.8      | J        | <1      | <1      | <2          | <1          | <1          | <1      | EB(0.50J), MB(0.68J), X(1.1J)                 |
|                | MW-3         | 2/6/91       | 22.0           |                | <10          | <10          | 17.0     | 29.0     | <10     | 51.0    | <10         | 13.0        | <10         | 48.0    | 58.0  |
| 8/15/91        |              | 70.0         |                | 10.0           | 25.0         | 25.0         | 45.0     | 10.0     | 85.0    | <10     | 80.0        | <10         | 20.0        | 85.0    | B(15), EB(15), T(15)                          |
| 3/30/93        |              | 14.0         | 0.081          | 5.0            | 10.0         | 12.0         | 25.0     | <5       | 60.0    | <10     | 34.0        | 3.0         | 13.0        | 20.0    | B(42), EB(5), T(11), X(20)                    |
| 5/18/95        |              | 7.0          | 0.063          | 40.0           | 4.0          | 8.0          | 19.0     | <5       | 74.0    | <10     | 31.0        | <5          | 17.0        | 27.0    | B(38), EB(2), T(2)                            |
| 11/13/95       |              | <5           | 0.020          | <5             | <5           | 4.0          | 5.0      | <5       | 57.0    | <10     | 29.0        | <5          | 14.0        | 18.0    | B(29)   |
| 5/20/96        |              | 3.0          | 0.023          | 3.0            | <1           | 4.0          | 9.0      | <1       | 40.0    | <1      | 20.0        | 2.0         | 10.0        | 13.0    | B(19), EB(2), T(2), X(4)                      |
| 11/14/96       |              | 3.0          | 0.038          | 3.0            | <1           | 5.0          | 7.0      | <1       | 59.0    | <1      | 20.0        | 10.0        | 2.0         | 15.0    | B(25)   |
| 5/8/97         |              | 4.0          | 0.051          | <1             | <1           | <1           | 8.0      | <1       | 40.0    | <1      | 15.0        | 2.0         | 8.0         | 17.0    | B(18)   |
| 11/26/97       |              | <5           | 0.023          | <5             | <5           | <5           | <5       | <5       | 63.0    | <10     | 14.0        | <5          | 11.0        | 14.0    | B(28)   |
| MW-5           |              | 8/15/91      | <2             |                | 2.0          | <2           | <2       | <2       | <2      | 51.0    | <2          | 19.0        | <2          | 4.0     | 89.0  |
|                | 3/30/93      | <5           | 96.0           | 2.0            | <5           | <5           | <5       | <5       | 3.0     | <10     | 4.0         | <5          | <5          | 79.0    | B(2)  |
|                | 5/18/95      | <5           | 3.0            | <5             | <5           | <5           | <5       | <5       | 7.0     | <10     | 3.0         | <5          | <5          | 5.0     |   |
|                | 11/13/95     | <5           | <5             | <5             | <5           | <5           | <5       | <5       | 8.0     | <10     | <5          | <5          | <5          | <10     |   |
|                | 5/20/96      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 21.0    | <1      | 10.0        | <1          | 2.0         | 39.0    | B(1)  |
|                | 11/14/96     | <1           | <1             | <1             | <1           | <1           | <1       | 2.0      | 426.0   | 2.0     | 271.0       | 15.0        | 62.0        | 62.0    | B(17), EB(4), T(4), X(14)                     |
|                | 5/8/97       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 2.0     | <1      | <1          | <1          | <1          | <1      |   |
|                | 11/26/97     | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <10     | <5          | 16.0        | <5          | <10     |   |
|                | 6/19/98      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | 13.0    | <10     | <5          | <5          | <5          | <2      |   |
|                | 11/30/98     | <5           | <5             | <5             | <5           | <5           | <5       | <5       | 11.0    | <10     | <5          | <5          | <5          | <2      |   |
|                | 5/15/99      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <2      |   |
|                | 12/27/99     | <2           | 11.0           | <2             | <2           | <2           | <2       | <2       | <2      | <2      | <2          | <2          | <2          | <2      |   |
|                | 5/31/00      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |   |
|                | 11/10/00     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 3/16/01      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 9/20/01      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 2/25/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 9/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 3/17/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 8/26/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 2/27/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 8/26/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <2      | <10     | <5          | <10         | <10         | <10     |   |
|                | 4/13/05      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | 3.0     | <1          | <1          | <1          | <1      |   |
|                | 9/6/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | CM(1.6)                                       |
|                | 2/2/06       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | 1.7     | <1          | <1          | <1          | <1      | <1  |
|                | 3/30/06      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <5      | <5  |
|                | 10/4/06      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | <1  |
|                | 1/23/07      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | <1  |
|                | 8/1/07       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      | <1  |
|                | 3/24/08      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | 1.0     | <1          | <1          | <1          | <1      | <1  |
| 8/27/08        | <1           | <1           | <1             | <1             | <1           | <1           | 7.4      | <1       | <1      | <1      | <1          | <1          | <1          | <1      |   |
| 3/30/09        | <1           | 20.0         | <1             | <1             | <1           | <1           | 1.3      | <1       | <1      | <1      | <1          | <1          | <1          | 1.1     |   |
| 11/5/09        | <1           | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |   |
| 4/30/10        | <1           | 8.9          | <1             | <1             | <1           | <1           | 5.7      | <1       | 0.7     | J       | <2          | <1          | <1          | 0.61    |   |
| 12/22/10       | 1.2          | 70.6         | 0.4            | J              | <1           | 0.7          | J        | 20.4     | <1      | 5.5     | <2          | 0.4         | <1          | 3.6     |   |
| 5/4/11         | <1           | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 6.4     | <2      | <1          | <1          | <1          | <1      |   |
| 12/28/11       | 2.2          | 118.0        | 0.9            | J              | <1           | 1            | 18.9     | <1       | 1.7     | <2      | 0.3         | J           | <1          | 8.9     |   |
| 5/18/12        | <1           | 2.3          | <1             | <1             | <1           | 1.1          | 0.3      | <1       | 2.8     | <2      | <1          | <1          | <1          | <1      |   |
| 10/26/12       | <1           | 8.5          | <1             | <1             | <1           | <1           | 0.5      | J        | 1.6     | <2      | <1          | <1          | <1          | <1      |   |
| 5/24/13        | <1           | 7.8          | <1             | <1             | <1           | <1           | 1.2      | <1       | <1      | <2      | <1          | <1          | <1          | <1      |   |
| 12/12/13       | <1           | 38.4         | 0.4            | J              | <1           | <1           | 2.8      | <1       | 8.7     | <2      | <1          | <1          | <1          | 0.65    |   |
| 6/30/14        | <1           | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |   |
| 12/22/14       | <1           | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |   |
|                |              |              |                |                |              |              |          |          |         |         |             |             |             |         | B(0.88J), CS <sub>2</sub> (0.62 J), I(0.26 J) |
|                |              |              |                |                |              |              |          |          |         |         |             |             |             |         | T(0.38 J)                                     |

**Table 4**  
**Summary of Groundwater Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Well Number   | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | 1,1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | 1,2-DB ug/L | 1,3-DB ug/L | 1,4-DB ug/L | VC ug/L  | Others mg/L   |  |   |
|---------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|-------------|-------------|-------------|--|---|--|---|
| MW-5 (cont'd) | 6/10/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.2     | <2      | <1          | <1          | <1          | <1   |   |  |   |
|               | 12/8/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1   |   |  |   |
|               | 6/28/16      | <1           | 3.0            | <1             | <1           | <1           | 0.4      | J        | 1.1     | <2      | <1          | <1          | <1          | <1   | T(0.22J)  |  |   |
|               | 12/14/16     | <1           | 15.8           | <1             | <1           | <1           | 3.4      | <1       | 0.3     | <2      | <1          | <1          | <1          | 0.75   | J   |  |   |
|               | 6/5/17       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1   |   |  |   |
|               | 12/26/17     | 0.7          | J              | 4.8            | 0.3          | J            | <1       | <1       | 10.9    | <1      | <2          | <1          | <1          | <1   | 2.3   |  |   |
|               | 6/4/18       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1   |   |  |   |
|               | 12/21/18     | <1           | 3.4            | <1             | <1           | <1           | 0.4      | J        | <1      | <1      | <1          | <1          | <1          | <1   |   |  |   |
|               | 6/12/19      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1   |   |  |   |
|               | 12/20/19     | 0.44         | J              | 64.2           | <1           | <1           | <1       | 7.4      | <1      | 0.23    | <2          | <1          | <1          | <1   | 2.3   |  |   |
|               | 6/4/20       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <2          | <1          | <1          | <1   |   |  |   |
|               | 12/16/20     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <2          | <1          | <1          | <1   |   |  |   |
| MW-6          | 8/15/91      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | 45.0    | <2      | <2          | <2          | <2          | 47.0   | B(23), EB(3), T(4)  |  |   |
|               | 3/30/93      | <5           | 44.0           | <2             | <2           | <5           | <5       | <5       | 63.0    | <10     | <2          | <5          | <5          | 27.0   | B(32), EB(3), T(4), X(3)                                    |  |   |
|               | 11/7/94      | <1           | 151.0          | <5             | <5           | <1           | <1       | <1       | 119.0   | <2      | <1          | <1          | <1          | 17.0   |   |  |   |
|               | 12/27/99     | <2           | 25.0           | <1             | <1           | <2           | <2       | <2       | 103.0   | <2      | <2          | <2          | <2          | 23.0   | B(41), EB(2.9), P-IP(2), T(5), 1,2,4-TMB(6), X(3)           |  |   |
|               | 3/16/00      | <1           | 20.0           | <1             | <1           | <1           | <1       | <1       | 72.0    | <1      | <2          | <1          | <1          | 19.0   | B(26), EB(1), P-IP(2), MC(3), T(3), X(2)                    |  |   |
|               | 5/31/00      | <1           | 42.0           | <1             | <1           | <1           | <1       | <1       | 71.0    | <1      | <1          | <1          | <1          | <1   | B(30)   |  |   |
|               | 8/11/00      | <1           | 23.0           | <1             | <1           | <1           | <1       | <1       | 87.0    | <1      | <1          | <1          | <1          | <1   | B(29), EB(1.7), T(3.5), X(5.7)                              |  |   |
|               | 11/10/00     | <2           | 18.0           | <2             | <2           | <2           | <2       | <2       | 77.0    | <5      | <10         | <10         | <10         | 27.0   | B(33), EB(2), T(4)  |  |   |
|               | 3/16/01      | <2           | 3.0            | <2             | <2           | <2           | <2       | <2       | 34.0    | <5      | <10         | <10         | <10         | <10  | B(7)  |  |   |
|               | 9/20/01      | <2           | 4.0            | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | 3.0  | B(7)  |  |   |
|               | 10/24/01     | <2           | 13.0           | <2             | <2           | <2           | <2       | <2       | 80.0    | <5      | <10         | <10         | <10         | 9.0  | B(29), EB(2), T(4)  |  |   |
|               | 11/19/01     | <2           | 14.0           | <2             | <2           | <2           | <2       | <2       | 65.0    | <5      | <10         | <10         | <10         | 8.0  | B(29), EB(2), T(5)  |  |   |
|               | 12/20/01     | <2           | 8.0            | <2             | <2           | <2           | <2       | <2       | 65.0    | <5      | <10         | <10         | <10         | 5.0  | B(21), T(3)   |  |   |
|               | 1/30/02      | <2           | 4.0            | <2             | <2           | <2           | <2       | <2       | 37.0    | <5      | <10         | <10         | <10         | 3.0  | B(11)   |  |   |
|               | 2/25/02      | <2           | 5.0            | <2             | <2           | <2           | <2       | <2       | 44.0    | <5      | <10         | <10         | <10         | 3.0  | B(12)   |  |   |
|               | 9/30/02      | <2           | 8.0            | <2             | <2           | <2           | <2       | <2       | 55.0    | <5      | <10         | <10         | <10         | 5.0  | B(20), T(2)   |  |   |
|               | 3/17/03      | <2           | 8.0            | <2             | <2           | <2           | <2       | <2       | 58.0    | <5      | <10         | <10         | <10         | 4.0  | B(17), T(3)   |  |   |
|               | 8/26/03      | <2           | 9.0            | <2             | <2           | <2           | <2       | <2       | 83.0    | <5      | <10         | <10         | <10         | 4.0  | B(26), T(4), EB(2)  |  |   |
|               | 2/27/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <10         | <10         | <10         | <2   |   |  |   |
|               | 8/26/04      | <2           | 4.0            | <2             | <2           | <2           | <2       | <2       | 36.0    | <5      | <10         | <10         | <10         | 3.0  | B(12)   |  |   |
|               | 4/13/05      | <1           | 4.0            | <1             | <1           | <1           | <1       | <1       | 56.0    | <1      | 1.0         | <1          | <1          | 3.0  | B(16), EB(1.6), T(2.5), X(2.7)                              |  |   |
|               | 9/6/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1   |   |  |   |
|               | 2/2/06       | <1           | 1.8            | <1             | <1           | <1           | <1       | <1       | 38.0    | <1      | 1.0         | <1          | <1          | <1   | B(8.8), EB(1), T(1.3), X(2.9)                               |  |   |
|               | 3/30/06      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5          | <5          | <5          | <5   |   |  |   |
|               | 10/4/06      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1   |   |  |   |
|               | 1/23/07      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 2.3     | <1      | <1          | <1          | <1          | <1   |   |  |   |
|               | 8/1/07       | <1           | 3.3            | <1             | <1           | <1           | <1       | <1       | 79.0    | <1      | 1.6         | <1          | <1          | 2.5  | B(29), EB(1.9), P-IP(1.1), T(1), X(3.5)                     |  |   |
| 3/24/08       | <1           | 1.8          | <1             | <1             | <1           | <1           | <1       | 47.0     | <1      | <1      | <1          | <1          | <1          | B(1.5), T(1.4)                                   |   |  |   |
| 8/27/08       | <1           | 15.0         | <1             | <1             | <1           | <1           | 6.0      | <1       | <1      | <1      | <1          | <1          | <1          | T(1.5)   |   |  |   |
| 3/30/09       | <1           | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | N(5.5)   |   |  |   |
| 11/5/09       | <1           | 0.7          | J              | <1             | <1           | <1           | <1       | 19.6     | <2      | 0.6     | J           | <1          | <1          | Ac(12.4 J), B(5.8), EB(0.72 J), T(1.7), X(1.9 J) |   |  |   |
| 4/30/10       | 3.0          | J            | 679.0          | <10            | <10          | 4.6          | J        | 156.0    | <10     | 30.7    | <20         | <10         | <10         | 14.1   | B(12.8)   |  |   |
| 12/22/10      | 1.0          | <1           | 77.0           | <1             | <1           | 0.7          | J        | 22.0     | <1      | 4.8     | <2          | 0.3         | J           | 5.0  | T(3.8J)   |  |   |
| 5/4/11        | <1           | 0.7          | J              | <1             | <1           | <1           | <1       | <1       | 12.2    | <2      | <1          | <1          | <1          | 0.5  | Ac(14.8 J), B(3.2), T(0.39J)                                |  |   |
| 12/28/11      | 8.0          | 489.0        | 3.1000         | <1             | <1           | 4.2          | 76.0     | <1       | 45.4    | <2      | 1.4         | <1          | 0.4         | J  | 35.8  | Ac(11.4J), B(9.6), EB(0.57), T(2.1), X(1.3J) |   |
| 5/18/12       | <1           | 14.5         | <1             | <1             | <1           | <1           | 4.0      | J        | <1      | 92.3    | <2          | 1.2         | <1          | 0.8  | J   | 2.9  | B(24.3), EB(1.7), T(2.5), X(02.8J)                        |
| 10/26/12      | <1           | 22.6         | <1             | <1             | <1           | <1           | 0.5      | J        | <1      | 73.5    | <2          | 0.7         | J           | 0.6  | J   | 2.6  | Ac(15.8J), B(18.5), CS2(0.76J)                            |
| 5/24/13       | <1           | 6.9          | <1             | <1             | <1           | <1           | 1.0      | <1       | <1      | <2      | <1          | <1          | <1          | <1   | EB(1.2), T(1.9J), X(2.2J)                                   |  |   |
| 12/12/13      | 0.4          | J            | 41.1           | <1             | <1           | 0.4          | J        | 3.0      | <1      | 83.3    | <2          | 1.2         | <1          | 0.7  | J   | 1.8  | Ac(19.7J), B(13J), CS2(0.55 J), EB(1.1), T(1.4), X(1.5 J) |
| 6/30/14       | <1           | 0.9          | J              | <1             | <1           | <1           | <1       | <1       | 27.4    | <2      | <1          | <1          | <1          | <1   | Ac(24.8J), B(8.9), EB(0.46J), T(0.81J)                      |  |   |
| 12/22/14      | <1           | 0.8          | J              | <1             | <1           | <1           | <1       | <1       | 53.6    | <2      | 0.6         | J           | <1          | 0.4  | J   | <1   | B(11.6), EB(0.68 J), T(1.4), X(0.87 J)                    |
| 6/10/15       | <1           | 0.4          | J              | <1             | <1           | <1           | <1       | <1       | 20.1    | <2      | 0.3         | J           | <1          | <1   | Ac(12.4J), B(3.4), MEK(1.8J), EB(0.39J), T(0.49J), X(0.64J) |  |   |



**Table 4**  
**Summary of Groundwater Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Well Number      | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | 1,1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | 1,2-DB ug/L | 1,3-DB ug/L | 1,4-DB ug/L | VC ug/L | Others mg/L                               |  |                         |        |
|------------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|-------------|-------------|-------------|---------|---|--|-------------------------|--------|
| MW-7<br>(cont'd) | 4/30/10      | 349.0        | J              | 61060.0        | <1000        | <1000        | 640.0    | J        | 4980.0  | <1000   | <1000       | <2000       | <1000       | <1000   | 3870.0                                    |  |                         |        |
|                  | 12/22/10     | 529.0        | J              | 67200.0        | <1000        | <1000        | 850.0    | J        | 4890.0  | <1000   | <1000       | <2000       | <1000       | <1000   | 5800.0                                    |  |                         |        |
|                  | 5/4/11       | 296.0        | J              | 39800.0        | <1000        | <1000        | 412.0    | J        | 1560.0  | <1000   | <1000       | <2000       | <1000       | <1000   | 3510.0                                    |  |                         |        |
|                  | 12/28/11     | 217.0        | J              | 35000.0        | <500         | <500         | 347.0    | J        | 816.0   | <500    | <500        | <1000       | <500        | <500    | 2980.0                                    |  |                         |        |
|                  | 5/18/12      | <500         | J              | 32900.0        | <500         | <500         | 302.0    | J        | 459.0   | J       | <500        | <500        | <1000       | <500    | <500                                      | 3500.0   |                         |        |
|                  | 10/26/12     | 289.0        | J              | 40600.0        | <500         | <500         | 398.0    | J        | 922.0   | <500    | <500        | <1000       | <500        | <500    | <500                                      | 4090.0   |                         |        |
|                  | 5/24/13      | 283.0        | J              | 34500.0        | <500         | <500         | 308.0    | J        | 2530.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | 2550.0   |                         |        |
|                  | 12/12/13     | 365.0        | J              | 48500.0        | <500         | <500         | 460.0    | J        | 3640.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | 3500.0   |                         |        |
|                  | 6/30/14      | 291.0        | J              | 32800.0        | 148.0        | E            | 1.0      | J        | 339.0   | 1260.0  | <1          | 47.0        | <2          | 9.0     | 0.3                                       | J  | <1                      | 3440.0 |
|                  | 12/22/14     | 361.0        | J              | 45800.0        | <500         | <500         | 414.0    | J        | 2930.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | <500   | 2260.0                  |        |
|                  | 6/10/15      | 298.0        | J              | 44800.0        | <500         | <500         | 330.0    | J        | 2470.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | <500   | 2950.0                  |        |
|                  | 12/8/15      | 544.0        | J              | 52200.0        | 159.0        | J            | <250     | 491.0    | 4900.0  | <250    | 131.0       | J           | <500        | <500    | <250                                      | 3600.0   | MC (1420)<br>MC(691 JB) |        |
|                  | 6/28/16      | 323.0        | J              | 42600.0        | <500         | <500         | 360.0    | J        | 3300.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | <500   | 3360.0                  |        |
|                  | 12/14/16     | 272.0        | J              | 42600.0        | <500         | <500         | 311.0    | J        | 3750.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | <500   | 2510.0                  |        |
|                  | 6/5/17       | 191.0        | J              | 29200.0        | <500         | <500         | 199.0    | J        | 1630.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | <500   | 2770.0                  |        |
|                  | 12/28/17     | 382.0        | J              | 55100.0        | 150.0        | J            | <500     | 358.0    | J       | 7510.0  | <500        | 120.0       | J           | <1000   | <500                                      | <500   | <500                    | 2680.0 |
|                  | 6/4/18       | 348.0        | J              | 50500.0        | <500         | <500         | 279.0    | J        | 5530.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | <500   | 3210.0                  |        |
| 12/21/18         | 317.0        | J            | 49300.0        | 142.0          | J            | <500         | 289.0    | J        | 5900.0  | <500    | <500        | <500        | <500        | <500    | <500                                      | <500   | 2850.0                  |        |
| 6/12/19          | 279.0        | J            | 41700.0        | <500           | <500         | 218.0        | J        | 4780.0   | <500    | <500    | <1000       | <500        | <500        | <500    | <500                                      | 2820.0   |                         |        |
| 12/20/19         | 264.0        | J            | 45600.0        | <500           | <500         | <500         | 5640.0   | <500     | <500    | <1000   | <500        | <500        | <500        | <500    | <500                                      | 2200.0   |                         |        |
| 6/4/20           | 292.0        | J            | 45400.0        | 121.0          | J            | <500         | 243.0    | J        | 5580.0  | <500    | <500        | <1000       | <500        | <500    | <500                                      | 2510.0   |                         |        |
| 12/16/20         | 318.0        | J            | 48600.0        | <500           | <500         | 234.0        | J        | 6350.0   | <500    | <500    | <1000       | <500        | <500        | <500    | <500                                      | 1910.0   |                         |        |
| MW-8             | 3/30/93      | <50          | 172.0          | <50            | <50          | 10.0         | 2470.0   | 34.0     | 12.0    | <100    | 8.0         | <50         | 6.0         | <100    |   |  |                         |        |
|                  | 2/22/95      | <25          | 392.0          | <25            | <25          | <25          | 5130.0   | <25      | <25     | <50     | <25         | <25         | <25         | <25     | <50                                       |  |                         |        |
|                  | 5/18/95      | 3.0          | 131.0          | 3.0            | <5           | 7.0          | 1650.0   | 4.0      | 55.0    | <10     | 26.0        | <5          | 29.0        | 3.0     |   | B(22), T(3), X(3)                                      |                         |        |
|                  | 8/15/95      | <50          | 253.0          | <50            | <50          | <50          | 2240.0   | <50      | <50     | <100    | <50         | <50         | <50         | <50     | <100                                      |  |                         |        |
|                  | 11/13/95     | 4.0          | 227.0          | <5             | <5           | 6.0          | 3650.0   | 15.0     | 26.0    | <10     | 12.0        | <5          | 13.0        | <10     |   |  |                         |        |
|                  | 2/20/96      | 4.0          | 900.0          | 2.0            | <1           | 5.0          | 1140.0   | 4.0      | 43.0    | <1      | 13.0        | 3.0         | 15.0        | 2.0     |   | B(9)   |                         |        |
|                  | 5/20/96      | 2.0          | 376.0          | <1             | <1           | 5.0          | 1694.0   | 3.0      | 49.0    | <1      | 18.0        | 5.0         | 27.0        | 2.0     |   | B(14), X(2)  |                         |        |
|                  | 8/30/96      | <1           | 233.0          | <1             | <1           | 7.0          | 1750.0   | 3.0      | 65.0    | <1      | 33.0        | 6.0         | <1          | 1.0     |   |  |                         |        |
|                  | 11/14/96     | <1           | 356.0          | 2.0            | <1           | 7.0          | 3475.0   | 6.0      | 45.0    | <1      | 17.0        | 6.0         | 32.0        | <1      |   | B(12), X(3)  |                         |        |
|                  | 2/28/97      | 6.0          | 474.0          | <1             | <1           | <1           | 3695.0   | 8.0      | 31.0    | <1      | 9.0         | 4.0         | <1          | 5.0     |   |  |                         |        |
|                  | 5/8/97       | 2.0          | 186.0          | 3.0            | <1           | <1           | 631.0    | <1       | 39.0    | <1      | 13.0        | 4.0         | 18.0        | 8.0     |   | B(19)  |                         |        |
|                  | 8/26/97      | <1           | 520.0          | 1.0            | <1           | 6.0          | 3920.0   | 12.0     | 18.0    | <1      | 6.0         | 3.0         | 3.0         | 3.0     |   |  |                         |        |
|                  | 11/26/97     | 6.0          | 632.0          | <5             | <5           | <5           | 5850.0   | 12.0     | 7.0     | <10     | <5          | <5          | <5          | <10     |   |  |                         |        |
|                  | 2/14/98      | <5           | 458.0          | <5             | <5           | <5           | 3170.0   | 19.0     | 12.0    | <5      | <5          | <5          | <5          | <2      |   |  |                         |        |
|                  | 6/19/98      | 8.0          | 358.0          | <5             | <5           | <5           | 4010.0   | 7.0      | 23.0    | <10     | 8.0         | <5          | 11.0        | 34.0    |   | B(12)  |                         |        |
|                  | 8/8/98       | <5           | 236.0          | <5             | <5           | 8.0          | 2080.0   | <5       | 41.0    | <10     | 25.0        | <5          | 23.0        | 138.0   |   |  |                         |        |
|                  | 11/30/98     | <5           | 179.0          | <5             | <5           | 9.0          | 2180.0   | <5       | 33.0    | <10     | 102.0       | 10.0        | 36.0        | 182.0   |   | B(77), T(8)  |                         |        |
|                  | 2/15/99      | <5           | 28.0           | <5             | <5           | <5           | 2420.0   | <5       | <5      | <10     | 10.0        | <5          | <5          | 22.0    |   |  |                         |        |
|                  | 5/15/99      | <5           | 243.0          | <5             | <5           | 13.0         | 2580.0   | <5       | 24.0    | 6.0     | 138.0       | 52.0        | 10.0        | 296.0   |   | B(61), X(27)   |                         |        |
|                  | 9/3/99       | <5           | 150.0          | <5             | <5           | 8.0          | 990.0    | <5       | 19.0    | <5      | 140.0       | 13.0        | 41.0        | 140.0   |   | B(130), T(10), X(16)                                   |                         |        |
|                  | 12/27/99     | 8.0          | 182.0          | <2             | <2           | 15.0         | 1190.0   | 5.0      | 8.0     | <2      | 31.0        | 8.0         | 19.0        | 175.0   |   | B(41)  |                         |        |
|                  | 3/16/00      | 21.0         | 95.0           | <1             | <1           | 13.0         | 1170.0   | 3.0      | 7.0     | 1.0     | 41.0        | 6.0         | 18.0        | 222.0   |   | B(60), 2-CHT(14), 4-CHT(12),<br>T(1), 1,2,4-B(1), X(3) |                         |        |
|                  | 5/31/00      | 5.0          | 290.0          | 3.0            | <1           | 23.0         | 2050.0   | 3.0      | 10.0    | <1      | <1          | <1          | <1          | <1      |   | B(166), X(7.9)   |                         |        |
|                  | 8/11/00      | 6.0          | 283.0          | 3.0            | <1           | 21.0         | 924.0    | <1       | 10.0    | <1      | <1          | <1          | <1          | <1      |   | B(49), T(2)  |                         |        |
|                  | 11/10/00     | <10          | 300.0          | <10            | <10          | 18.0         | 940.0    | <10      | <50     | <25     | 62.0        | <50         | <50         | 140.0   |   | B(19)  |                         |        |
|                  | 3/16/01      | <2           | 79.0           | <2             | <2           | <2           | 140.0    | <2       | <10     | <5      | <10         | <10         | <10         | <10     |   |  |                         |        |
|                  | 9/20/01      | 4.0          | 270.0          | <2             | <2           | 2.0          | 210.0    | <2       | <10     | <5      | <10         | <10         | <10         | 78.0    |   | B(5)   |                         |        |
|                  | 2/25/02      | <2           | 180.0          | <2             | <2           | <2           | 9.0      | <2       | <10     | <5      | <10         | <10         | <10         | 8.0     |   |  |                         |        |
|                  | 9/30/02      | 2.0          | 85.0           | <2             | <2           | <2           | 27.0     | <2       | <10     | <5      | <10         | <10         | <10         | 46.0    |   |  |                         |        |
|                  | 3/17/03      | 3.0          | 230.0          | <2             | <2           | <2           | 95.0     | <200     | <10     | <5      | <10         | <10         | <10         | 9.0     |   |  |                         |        |
|                  | 8/26/03      | <2           | 89.0           | <2             | <2           | 5.0          | 4.0      | <2       | <10     | <5      | <10         | <10         | <10         | 38.0    |   | B(25), T(4)  |                         |        |
|                  | 2/27/04      | <2           | 7.0            | <2             | <2           | <2           | 4.0      | <2       | <10     | <5      | <10         | <10         | <10         | <2      |   |  |                         |        |
|                  | 8/26/04      | <2           | 99.0           | <2             | <2           | 3.0          | 34.0     | <2       | <10     | <5      | <10         | <10         | <10         | 94.0    |   | B(5)   |                         |        |
| 4/13/05          | <1           | 53.0         | <1             | <1             | <1           | 17.0         | <1       | <1       | <1      | <1      | <1          | <1          | 40.0        |         |   |  |                         |        |
| 9/6/05           | <1           | 37.0         | <1             | <1             | <1           | 2.0          | <1       | 8.0      | 3.0     | 2.0     | <1          | <1          | 15.0        |         | Ac(34), B(4.2), 2-But(16)                 |  |                         |        |
| 2/2/06           | <1           | 19.0         | <1             | <1             | <1           | 6.6          | <1       | 37.0     | <1      | 4.7     | <1          | 6.1         | 4.4         |         | B(9), 2-CHT(1.1), EB(1.2), T(3.1), X(2.9) |  |                         |        |
| 3/30/06          | <5           | 9.9          | <5             | <5             | <5           | <5           | <5       | 15.0     | 3.2     | <5      | <5          | <5          | 18.0        |         | B(3.7)                                    |  |                         |        |
| 10/4/06          | <1           | 38.0         | 2.3            | <1             | 1.4          | <1           | <1       | 17.0     | <1      | 3.4     | <1          | 4.7         | 79.0        |         | B(4.1), T(3.5)                            |  |                         |        |
| 1/23/07          | <1           | 12.0         | <1             | <1             | <1           | 2.5          | <1       | <1       | <1      | <1      | <1          | <1          | 3.5         |         | 2-CHT(1.8)                                |  |                         |        |
| 8/1/07           | <1           | 1.3          | <1             | <1             | <1           | <1           | <1       | <1       | 8.3     | <1      | <1          | <1          | 1.6         |         | T(3.2)                                    |  |                         |        |

**Table 4  
Summary of Groundwater Analyses  
Brenntag Southeast  
Charleston, South Carolina  
(revised 1/5/2021)**

| Well          | Date     | 1,1-DCE | c-1,2-DCE | 1,1,2-DCE | 1,2-DCA | 1,1-DCA | TCE     | PCE     | CB    | CH    | 1,2-DB | 1,3-DB | 1,4-DB | VC     | Others             |   |   |  |      |
|---------------|----------|---------|-----------|-----------|---------|---------|---------|---------|-------|-------|--------|--------|--------|--------|--------------------|---|---|--|------|
| Number        | Sampled  | ug/L    | ug/L      | ug/L      | ug/L    | ug/L    | ug/L    | ug/L    | ug/L  | ug/L  | ug/L   | ug/L   | ug/L   | ug/L   | mg/L               |   |   |  |      |
| MW-8 (cont'd) | 3/24/08  | 4.2     | 150.0     | 2.4       | <1      | 1.0     | <1      | 71.0    | 4.1   | 27.0  | 2.1    | 9.9    | 140.0  |        | B(2.8), T(2), X(1) |   |   |  |      |
|               | 8/27/08  | 2.0     | 130.0     | 1.0       | <1      | 2.0     | 30.0    | <1      | 4.0   | <1    | <1     | <1     | <1     |        | 160.0              |   |   |  |      |
|               | 3/30/09  | <1      | 94.0      | 1.0       | <1      | 2.0     | 24.0    | <1      | 6.0   | <1    | 7.0    | <1     | 3.0    |        | 17.0               |   |   |  |      |
|               | 11/5/09  | 1.8     | 163.0     | 1.0       | <2      | 1.7     | 34.0    | <2      | 6.9   | <4    | 3.0    | 0.5    | J      | 2.0    | 10.6               |   |   |  |      |
|               | 4/30/10  | <5      | 192.0     | <5        | <5      | 8.6     | 19.7    | <5      | 5.3   | <10   | 24.0   | 1.8    | J      | 6.2    | 590.0              |   |   |  |      |
|               | 12/22/10 | 5.2     | 476.0     | <10       | <10     | 4.5     | 94.2    | <10     | 36.0  | <20   | 4.0    | <1     | <1     |        | 19.6               |   |   |  |      |
|               | 5/4/11   | <1      | 28.0      | 0.7       | J       | <1      | 1.5     | 1.8     | <1    | 12.5  | 3.0    | 2.8    | 0.6    | J      | 2.4                | 78.8  |   |  |      |
|               | 12/28/11 | 0.6     | J         | 35.0      | 0.5     | J       | <1      | 1.1     | 6.3   | 0.8   | 28.0   | 1.3    | J      | 20.1   | 2.8                | 8.9   | 14.4  |  |      |
|               | 5/18/12  | 3.6     | 196.0     | 1.4       | <1      | 1.8     | 12.8    | 0.7     | J     | 4.1   | <2     | 1.5    | 0.3    | J      | 0.8                | J   | 14.1  |  |      |
|               | 10/26/12 | 2.6     | 187.0     | 1.4       | J       | <2      | 2.3     | 17.4    | <2    | 8.5   | <4     | 1.2    | J      | <2     | 1.4                | J   | 35.7  |  |      |
|               | 5/24/13  | 4.8     | 260.0     | 2.4       | <2      | 3.0     | 27.5    | 1.0     | J     | 4.2   | <4     | 4.6    | 0.8    | J      | 2.4                | 107.0   |   |  |      |
|               | 12/12/13 | <1      | 69.0      | <1        | <1      | 7.5     | J       | 7.8     | 0.9   | J     | 10.8   | <2     | 1.4    | 0.8    | J                  | 3.1   | 51.0  |  |      |
|               | 6/30/14  | <1      | 21.0      | 0.4       | J       | <1      | 1.3     | 2.6     | 0.6   | J     | 1.5    | 1.1    | J      | 0.7    | J                  | 0.5   | J   | 45.3   |      |
|               | 12/22/14 | <1      | 2.0       | <1        | <1      | <1      | <1      | 2.6     | 0.8   | J     | 1.0    | <2     | <1     | 0.8    | J                  | 0.4   | J   |  |      |
|               | 6/10/15  | <1      | 9.7       | <1        | <1      | 1.0     | 2.0     | 0.6     | J     | 1.6   | 1.1    | J      | 1.0    | 0.3    | J                  | 1.0   | 45.8  |  |      |
|               | 12/8/15  | 1.7     | 146.0     | 3.0       | <1      | 3.0     | 9.8     | 0.7     | J     | 12.9  | <2     | 8.0    | 1.3    | J      | 5.0                | 147.0   |   |  |      |
|               | 6/28/16  | 0.4     | J         | 67.7      | 1.0     | J       | <1      | 1.5     | 15.4  | 1.7   | 3.1    | <2     | 3.5    | 0.4    | J                  | 1.2   | 34.5  |  |      |
|               | 12/14/16 | 1.5     | 114.0     | 1.0       | <1      | 2.2     | 24.0    | 0.4     | J     | 9.9   | <2     | 14.4   | 1.8    | 5.7    |                    | 125.0   |   |  |      |
|               | 6/5/17   | <1      | 4.9       | <1        | <1      | 2.0     | 1.2     | 0.3     | J     | 7.3   | <2     | 3.5    | 0.7    | J      | 2.5                | 17.0  |   |  |      |
|               | 12/28/17 | 0.5     | J         | 34.1      | 0.3     | J       | <1      | 0.5     | J     | 3.7   | <1     | 12.4   | <2     | 2.4    | 1.2                | 4.1   | 15.4  |  |      |
|               | 6/4/18   | 0.9     | J         | 33.7      | 0.3     | J       | <1      | 0.6     | J     | 6.8   | 0.5    | J      | 2.5    | <2     | 5.4                | J   | 2.5   | 21.0   |      |
|               | 12/21/18 | 0.9     | J         | 48.2      | 0.6     | J       | <1      | <1      | 7.0   | 1.2   | 2.3    | <1     | 4.2    | 0.5    | J                  | 1.7   | 21.1  |  |      |
|               | 6/12/19  | 4.0     | 184.0     | 2.0       | <1      | 1.8     | 41.5    | 5.3     | <1    | <2    | 0.8    | J      | <1     | <1     | <1                 | 13.5  |   |  |      |
|               | 12/20/19 | 0.6     | J         | 37.4      | 0.3     | J       | <1      | 0.5     | 4.2   | 0.7   | 4.8    | <2     | 4.9    | 0.6    | J                  | 2.0   | 3.5   |  |      |
|               | 6/4/20   | 0.8     | J         | 56.6      | 0.6     | J       | <1      | 0.5     | J     | 14.5  | 3.1    | 0.9    | J      | <1     | 0.4                | J   | 4.3   |  |      |
|               | 12/16/20 | 1.0     | J         | 52.0      | 0.5     | J       | <1      | 0.5     | J     | 3.6   | 0.4    | J      | 5.6    | <2     | 4.6                | 0.5   | J   | 2.0  | 14.2 |
| MW-13         | 9/20/01  | 310.0   | 33000.0   | 260.0     | <100    | 630.0   | 1400.0  | <100    | <500  | <250  | <500   | <500   | <500   | 1900.0 |                    |   |   |  |      |
|               | 10/24/01 | <1000   | 59000.0   | <1000     | <1000   | 1300.0  | 1600.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 6400.0 |                    |   |   |  |      |
|               | 11/19/01 | <1000   | 52000.0   | 2300.0    | <1000   | 1300.0  | 2000.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 7200.0 |                    |   |   |  |      |
|               | 12/20/01 | 420.0   | 44000.0   | 790.0     | <100    | 1500.0  | 1700.0  | <100    | <500  | 330.0 | <500   | <500   | <500   | 7900.0 |                    | T(230)  |   |  |      |
|               | 1/30/02  | <1000   | 36000.0   | <1000     | <1000   | 1000.0  | 1300.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 8200.0 |                    |   |   |  |      |
|               | 2/25/02  | <400    | 43000.0   | <400      | <400    | 1100.0  | 1800.0  | <400    | <2000 | <400  | <2000  | <2000  | <2000  | 6700.0 |                    |   |   |  |      |
|               | 9/30/02  | <1000   | 41000.0   | <1000     | <1000   | 1100.0  | 2000.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 7300.0 |                    |   |   |  |      |
|               | 3/17/03  | <1000   | 44000.0   | <1000     | <1000   | <1000   | 2200.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 4200.0 |                    |   |   |  |      |
|               | 8/26/03  | <500    | 31000.0   | <500      | <500    | 600.0   | 1500.0  | <500    | <2500 | <1300 | <2500  | <2500  | <2500  | 3700.0 |                    |   |   |  |      |
|               | 2/27/04  | <1000   | 53000.0   | <1000     | <1000   | <1000   | 2400.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 7500.0 |                    |   |   |  |      |
|               | 5/13/04  | <1000   | 23000.0   | <1000     | <1000   | <1000   | 1000.0  | <1000   | <5000 | <2500 | <5000  | <5000  | <5000  | 4200.0 |                    |   |   |  |      |
|               | 8/26/04  | <2      | 75.0      | <2        | <2      | <2      | 2.0     | <2      | <10   | <5    | <10    | <10    | <10    | 12.0   |                    |   |   |  |      |
|               | 12/3/04  | <200    | 24000.0   | <200      | <200    | 420.0   | 470.0   | <200    | <200  | 220.0 | <10    | <10    | <10    | 4200.0 |                    | CH(220)                                       |   |  |      |
|               | 4/13/05  | <200    | 19000.0   | <200      | <200    | 350.0   | 720.0   | <200    | <200  | <200  | <200   | <200   | <200   | 2100.0 |                    |   |   |  |      |
|               | 7/1/05   | 93.0    | 11000.0   | 160.0     | <20     | <20     | 490.0   | <20     | <20   | <20   | <20    | <20    | <20    | 970.0  |                    |   |   |  |      |
|               | 9/6/05   | 38.0    | 5700.0    | 29.0      | <20     | 96.0    | 110.0   | <20     | <20   | 36.0  | <20    | <20    | <20    | 910.0  |                    |   |   |  |      |
|               | 12/20/05 | <1      | 0.0       | <1        | <1      | <1      | <1      | <1      | <1    | <1    | <1     | <1     | <1     | <1     |                    |   |   |  |      |
|               | 2/2/06   | 1.3     | 19.0      | 1.5       | <1      | 2.6     | 4.6     | <1      | <1    | <1    | <1     | <1     | <1     | 11.0   |                    |   |   |  |      |
|               | 3/30/06  | <0.20   | 1.8       | <0.20     | <0.20   | 0.3     | <0.20   | <0.20   | <0.20 | <0.20 | <0.20  | <0.20  | <0.20  | <0.20  |                    | MC(0.80 JB)                                   |   |  |      |
|               | 10/4/06  | <1      | <1        | <1        | <1      | <1      | <1      | <1      | <1    | <1    | <1     | <1     | <1     | <1     |                    |   |   |  |      |
|               | 1/23/07  | <1      | <1        | <1        | <1      | <1      | <1      | <1      | <1    | <1    | <1     | <1     | <1     | <1     |                    |   |   |  |      |
|               | 6/1/07   | <1      | 10.0      | <1        | <1      | <1      | <1      | <1      | <1    | <1    | <1     | <1     | <1     | 1.2    |                    |   |   |  |      |
|               | 3/24/08  | <0.200  | 24000.0   | <200      | <200    | 260.0   | <200    | <200    | <200  | <200  | <200   | <200   | <200   | 1500.0 |                    |   |   |  |      |
|               | 8/28/08  | <1      | 13.0      | <1        | <1      | 4.0     | <1      | <1      | <1    | <1    | <1     | <1     | <1     | <1     |                    |   |   |  |      |
|               | 3/30/09  | 0.2     | 14400.0   | 122.0     | <1      | 193.0   | 1370.0  | <1      | 11.0  | <1    | 4.0    | <1     | <1     | 1180.0 |                    | T(33), X(21), B(9.3), EB(5.7), 1,2-DCE (18.6) |   |  |      |
|               | 11/5/09  | 166.0   | 0.5 J     | <1        | <1      | <1      | <1      | <1      | <1    | 15.3  | <2     | 0.5    | J      | <1     | <1                 |   | Ac(16 J), B(4.9), EB(0.6 J), T(1.6), X(1.8 J) |  |      |
|               | 4/30/10  | 156.0   | J         | 24800.0   | <250    | <250    | 235.0 J | 484.0   | <250  | <250  | <500   | <250   | <250   | 2320.0 |                    |   |   |  |      |
|               | 12/22/10 | 241.0   | J         | 34000.0   | 93.1 J  | <250    | 372.0   | 2100.0  | <250  | <250  | <500   | <250   | <250   | 2420.0 |                    |   |   |  |      |
|               | 5/4/11   | 290.0   | J         | 39200.0   | <500    | <500    | 431.0 J | 1530.0  | <500  | <500  | <1000  | <500   | <500   | 3440.0 |                    |   |   |  |      |
|               | 12/28/11 | 227.0   | J         | 27100.0   | <500    | <500    | 280.0   | 492.0 J | <500  | <500  | <1000  | <500   | <500   | 2860.0 |                    |   |   |  |      |
|               | 5/18/12  | 146.0   | J         | 18400.0   | <200    | <200    | <200    | 350.0   | <200  | <200  | <400   | <200   | <200   | 1810.0 |                    | MC(800)                                       |   |  |      |
|               | 10/26/12 | 151.0   | J         | 23500.0 b | 71.8 J  | <200    | 210.0   | 502.0   | <200  | <200  | <400   | <200   | <200   | 2660.0 |                    |   |   |  |      |
|               | 5/24/13  | <1      | E         | <1        | <1      | <1      | <1      | <1      | <1    | <2    | <1     | <1     | <1     | <1     |                    |   |   |  |      |
|               | 12/12/13 | 183.0   | E         | 19600.0   | 78.0    | <1      | 193.0   | 451.0   | <1    | 32.0  | 0.6    | 4.0    | <1     | 0.9    | 1710.0             |   | B(20), EB(0.6), MC(0.69), T(1.6), X(1.3)      |  |      |
|               | 6/30/14  | 128.0   | J         | 15800.0   | 181.0 E | 0.3 J   | 149.0   | J       | 357.0 | <1    | 31.0   | <2     | 4.0    | 0.2    | J                  | 0.8   | J   | 1890.0   |      |
|               | 12/22/14 | 164.0   | J         | 20100.0   | <250    | <250    | 176.0   | J       | 591.0 | <250  | 83.4   | J      | <500   | <250   | <250               | 1960.0  |   | B(19.1), EB(0.7), MC(3.6), T(13.8), X(1.7J)<br>CS <sub>2</sub> (247 J) |      |





**Table 4**  
**Summary of Groundwater Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Well Number | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | 1,1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | 1,2-DB ug/L | 1,3-DB ug/L | 1,4-DB ug/L | VC ug/L | Others mg/L        |
|-------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|-------------|-------------|-------------|---------|--------------------|
| MW-15       | 5/18/12      | <1           | 4,4000         | <1             | <1           | <1           | <1       | <1       | 4,8000  | <2      | <1          | <1          | <1          | <1      | B(0.35J), T(0.26J) |
|             | 10/26/12     | <1           | 4,000          | <1             | <1           | <1           | <1       | <1       | 0,820   | <2      | <1          | <1          | <1          | <1      | T(0.22J)           |
|             | 5/24/13      | <1           | 8,000          | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 12/12/13     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 6/30/14      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 12/22/14     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 6/10/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 12/8/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 6/28/16      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      | T(1.5), X(1.5J)    |
|             | 12/14/16     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 6/5/17       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 12/28/17     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 6/4/18       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1          | <1          | <1          | <1      |                    |
|             | 12/21/18     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |                    |
|             | 6/12/19      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |                    |
|             | 12/20/19     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |                    |
|             | 6/4/20       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |                    |
|             | 12/16/20     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1          | <1          | <1          | <1      |                    |

**LIST OF ABBREVIATIONS**

|                            |                 |                                |            |                                      |              |
|----------------------------|-----------------|--------------------------------|------------|--------------------------------------|--------------|
| Acetone                    | Ac              | 1,2-Dichloroethane             | 1,2-DCA    | trans-1,2-Dichloroethene             | t-1,2-DCE    |
| Benzene                    | B               | Ethylbenzene                   | EB         | 1,2,4-Trimethylbenzene               | 1,2,4-TMB    |
| Bromobenzene               | BB              | Hydrocarbons (Mineral Spirits) | H-MIN      | 1,3,5-Trimethylbenzene               | 1,3,5-TMB    |
| 2-Butanone                 | 2-But.          | Isopropylbenzene               | IPB        | Toluene                              | T            |
| Chlorobenzene              | CB              | Methyl Chloride                | MC         | Styrene                              | Sy           |
| Chloroethane               | CH              | Methyl Bromide                 | MB         | Vinyl Chloride                       | VC           |
| Carbon Disulfide           | CS <sub>2</sub> | Methyl ethyl ketone            | MEK        | Xylenes                              | X            |
| Chloroform                 | CHL             | 4-Methyl-2-Pentanone           | 4-M-2-Pent | Methyl Tert Butyl Ether              | MTBE         |
| Chloromethane              | CM              | Methylcyclohexane              | MCH        | 4-Methyl-2-pentanone                 | MIBK         |
| cis-1,2-Dichloroethene     | c-1,2-DCE       | milligrams/Liter               | mg/L       | Not Sampled                          | NS           |
| Cyclohexane                | CHX             | Naphthalene                    | N          | Estimated value (result is between R | J            |
| 1,2-Dichlorobenzene (O-DB) | 1,2-DB          | N-Propylbenzene                | N-PB       | Limit and Method Detection Limit)    |              |
| 1,3-Dichlorobenzene M-DB)  | 1,3-DB          | P-CY                           | p-Cymene   | Result is from Run# 2                | <sup>a</sup> |
| 1,4-Dichlorobenzene (P-DB) | 1,4-DB          | P-Isopropyltoluene             | P-IP       | Analyte found in associated method   | <sup>b</sup> |
| 1,1-Dichloroethene         | 1,1-DCE         | sec-Butylbenzene               | S-BB       |                                      |              |
| 1,2,4-Trichlorobenzene     | 1,2,4-B         | tert-Butylbenzene              | T-BB       |                                      |              |
| 2-Chlorotoluene            | 2-CHT           | Tetrachloroethene              | PCE        |                                      |              |
| 4-Chlorotoluene            | 4-CHT           | Trichloroethene                | TCE        |                                      |              |
| 1,1-Dichloroethane         | 1,1-DCA         | 1,1,1-Trichloroethene          | 1,1,1-TCE  |                                      |              |
|                            |                 | 1,1,1-Trichloroethane          | 1,1,1-TCA  |                                      |              |

**Table 5**  
**Summary of Surface Water Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Sample Number | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | t-1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | VC ug/L | Others ug/L             |
|---------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|---------|-------------------------|
| SW-1          | 11/19/01     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 12/20/01     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 1/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 2/25/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 9/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 3/17/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 8/26/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 2/27/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 5/13/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 8/26/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                      |
|               | 12/3/04      | <1           | 4.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 4/13/05      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 7/1/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | Chl (1.6)               |
|               | 9/6/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | CM(1)                   |
|               | 12/20/05     | <1           | 2.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 2/2/06       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 3/30/06      | <5           | <5             | <1             | <5           | <5           | <5       | <5       | <5      | <5      | <5      | ND                      |
|               | 10/4/06      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 1/23/07      | <1           | 1.5            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 8/1/07       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 3/24/08      | <1           | 1.8            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 8/27/08      | <1           | 8.9            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 3/30/09      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                      |
|               | 11/5/09      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.3     | <1      | <1      | ND                      |
|               | 4/30/10      | <1           | 8.6            | <1             | <1           | <1           | 4.9      | <1       | 0.5     | <2      | <1      | EB(0.37), X(1)          |
|               | 12/22/10     | 1.0          | 28.2           | <1             | <1           | 0.3          | 9.0      | <1       | 0.8     | <2      | 2.0     | T(0.21J)                |
|               | 5/4/11       | 4.0          | 159.0          | 1.9            | <1           | 1.6          | 29.9     | <1       | 1.6     | <2      | 1.3     | B(0.36J)                |
|               |              |              |                |                |              |              |          |          |         |         |         | 1,2DCB(0.41J)           |
|               |              |              |                |                |              |              |          |          |         |         |         | MC(41.2J)               |
|               |              |              |                |                |              |              |          |          |         |         |         | T(1)                    |
|               | 12/28/11     | <1           | 0.3            | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 5/18/12      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 10/26/12     | <1           | 0.6            | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | T(0.22J)                |
|               | 5/24/13      | <1           | 5.0            | <1             | <1           | <1           | 0.9      | <1       | <1      | <2      | <1      | ND                      |
|               | 12/12/13     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.7     | <2      | <1      | ND                      |
|               | 6/30/14      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 12/22/14     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 6/10/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | CS <sup>2</sup> (0.53J) |
|               | 12/8/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 6/28/16      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.2     | <2      | <1      | Ac(13.6J), T(0.65J)     |
|               | 12/14/16     | <1           | 6.0            | <1             | <1           | <1           | 1.5      | <1       | <1      | <2      | <1      | ND                      |
|               | 6/5/17       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 12/26/17     | 0.4          | 27.2           | 0.3            | <1           | <1           | 7.2      | <1       | 0.4     | <2      | 1.0     | ND                      |
|               | 1/19/18      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 6/4/18       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 12/21/18     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 6/12/19      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 12/20/19     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |
|               | 6/4/20       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | Ac(42.8)                |
|               | 12/16/20     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                      |

**Table 5**  
**Summary of Surface Water Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Sample Number | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | t-1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | VC ug/L | Others ug/L                        |
|---------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|---------|------------------------------------|
| SW-2          | 11/19/01     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 12/20/01     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 1/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 2/25/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 9/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 3/17/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 8/26/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 2/27/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 5/13/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 8/26/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                                 |
|               | 12/3/04      | <1           | 3.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 4/13/05      | <1           | 1.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 7/1/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | Chl (1.5)                          |
|               | 9/6/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 12/20/05     | <1           | 2.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 2/2/06       | <1           | 1.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 3/30/06      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5      | ND                                 |
|               | 10/4/06      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | Chl(1.4)                           |
|               | 1/23/07      | <1           | 1.6            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 8/1/07       | <1           | <0.001         | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 3/24/08      | <1           | 1.8            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 8/27/08      | <1           | 8.2            | <1             | <1           | <1           | 2.7      | <1       | <1      | <1      | <1      | ND                                 |
|               | 3/30/09      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                                 |
|               | 11/5/09      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.39 J  | <1      | <1      | ND                                 |
|               | 4/30/10      | <1           | 8.6            | <1             | <1           | <1           | 4.9      | <1       | 0.47 J  | <2      | 0.51 J  | EB(0.42J), X(1.1J)                 |
|               | 12/22/10     | 0.56J        | 27.8           | <1             | <1           | <1           | 9.0      | <1       | 0.74J   | <2      | 1.6     | T(0.21J)                           |
|               | 5/4/11       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 12/28/11     | 1.8          | 0.1            | 0.74J          | <1           | 0.99J        | 16.9     | <1       | 3.4     | <2      | 8.6     | B(0.26J), o-DCB(0.33J)<br>T(0.38J) |
|               | 5/18/12      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <0.001  | ND                                 |
|               | 10/26/12     | <1           | 13.0           | <1             | <1           | <1           | 0.47 J   | <1       | 4.0     | <2      | 0.50 J  | B(0.47J), T(0.36J)                 |
|               | 5/24/13      | <1           | 4.0            | <1             | <1           | <1           | 0.88 J   | <1       | <1      | <2      | <1      | ND                                 |
|               | 12/12/13     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.41 J  | <2      | <1      | ND                                 |
|               | 6/30/14      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 12/22/14     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 6/10/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | CS <sup>2</sup> (0.62J)            |
|               | 12/8/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 6/28/16      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.25 J  | <2      | <1      | T(0.68J)                           |
|               | 12/14/16     | <1           | 4.0            | <1             | <1           | <1           | 1.0      | <1       | <1      | <2      | <1      | ND                                 |
|               | 6/5/17       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 12/26/17     | 4.7 J        | 3.0            | 0.35 J         | <1           | <1           | 8.0      | <1       | 0.42 J  | <2      | 1.0     | ND                                 |
|               | 1/19/18      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | CHI(0.97J)                         |
|               | 6/4/18       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 12/21/18     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 6/12/19      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 12/20/19     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |
|               | 6/4/20       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | Ac(61.2)                           |
|               | 12/16/20     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                                 |

**Table 5**  
**Summary of Surface Water Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Sample Number | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | t-1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | VC ug/L | Others ug/L         |
|---------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|---------|---------------------|
| SW-3          | 11/19/01     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 12/20/01     | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 1/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 2/25/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 9/30/02      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 3/17/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 8/26/03      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 2/27/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 5/13/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 8/26/04      | <2           | <2             | <2             | <2           | <2           | <2       | <2       | <10     | <5      | <2      | ND                  |
|               | 12/3/04      | <1           | 3.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 4/13/05      | <1           | 2.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 7/1/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | Chl (1.6)           |
|               | 9/6/05       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 12/20/05     | <1           | 3.0            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 2/2/06       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 3/30/06      | <5           | <5             | <5             | <5           | <5           | <5       | <5       | <5      | <5      | <5      | ND                  |
|               | 10/4/06      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 1/23/07      | <1           | 9.6            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 8/1/07       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 3/24/08      | <1           | 1.7            | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | ND                  |
|               | 8/27/08      | <1           | 7.0            | <1             | <1           | <1           | 2.0      | <1       | <1      | <1      | <1      | ND                  |
|               | 3/30/09      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <1      | <1      | Chl(7.1)            |
|               | 11/5/09      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.34 J  | <1      | <1      | ND                  |
|               | 4/30/10      | <1           | 6.4            | <1             | <1           | <1           | 0.0      | <1       | 0.41 J  | <2      | <1      | EB(0.37J), X(0.77J) |
|               | 12/22/10     | 4.5J         | 30.5           | <1             | <1           | <1           | 0.0      | <1       | 0.67J   | <2      | 2.0     | ND                  |
|               | 5/4/11       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 5.4     | <2      | <1      | B(0.48J)            |
|               | 12/28/11     | 1.0          | 87.3           | 4.6J           | <1           | 0.57J        | 12.0     | <1       | 1.4     | <2      | 5.0     | T(0.30J)            |
|               | 5/18/12      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 10/26/12     | <1           | 9.9            | <1             | <1           | <1           | 0.34 J   | <1       | 1.0     | <2      | <1      | T(0.34J)            |
|               | 5/24/13      | <1           | 3.9            | <1             | <1           | <1           | 0.88 J   | <1       | <1      | <2      | <1      | ND                  |
|               | 12/12/13     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.32 J  | <2      | <1      | ND                  |
|               | 6/30/14      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 12/22/14     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 6/10/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 12/8/15      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 6/28/16      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | 0.34 J  | <2      | <1      | T(0.66J)            |
|               | 12/14/16     | <1           | 4.0            | <1             | <1           | <1           | 1.0      | <1       | <1      | <2      | <1      | ND                  |
|               | 6/5/17       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 12/26/17     | 4.2 J        | 29.0           | 0.29 J         | <1           | <1           | 7.0      | <1       | 0.44 J  | <2      | 1.0     | ND                  |
|               | 1/19/18      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 6/4/18       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 12/21/18     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 6/12/19      | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 12/20/19     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |
|               | 6/4/20       | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | Ac(61.6)            |
|               | 12/16/20     | <1           | <1             | <1             | <1           | <1           | <1       | <1       | <1      | <2      | <1      | ND                  |

**Table 5**  
**Summary of Surface Water Analyses**  
**Brenntag Southeast**  
**Charleston, South Carolina**  
**(revised 1/5/2021)**

| Sample Number | Date Sampled | 1,1-DCE ug/L | c-1,2-DCE ug/L | t-1,2-DCE ug/L | 1,2-DCA ug/L | 1,1-DCA ug/L | TCE ug/L | PCE ug/L | CB ug/L | CH ug/L | VC ug/L | Others ug/L |
|---------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|---------|-------------|
|---------------|--------------|--------------|----------------|----------------|--------------|--------------|----------|----------|---------|---------|---------|-------------|

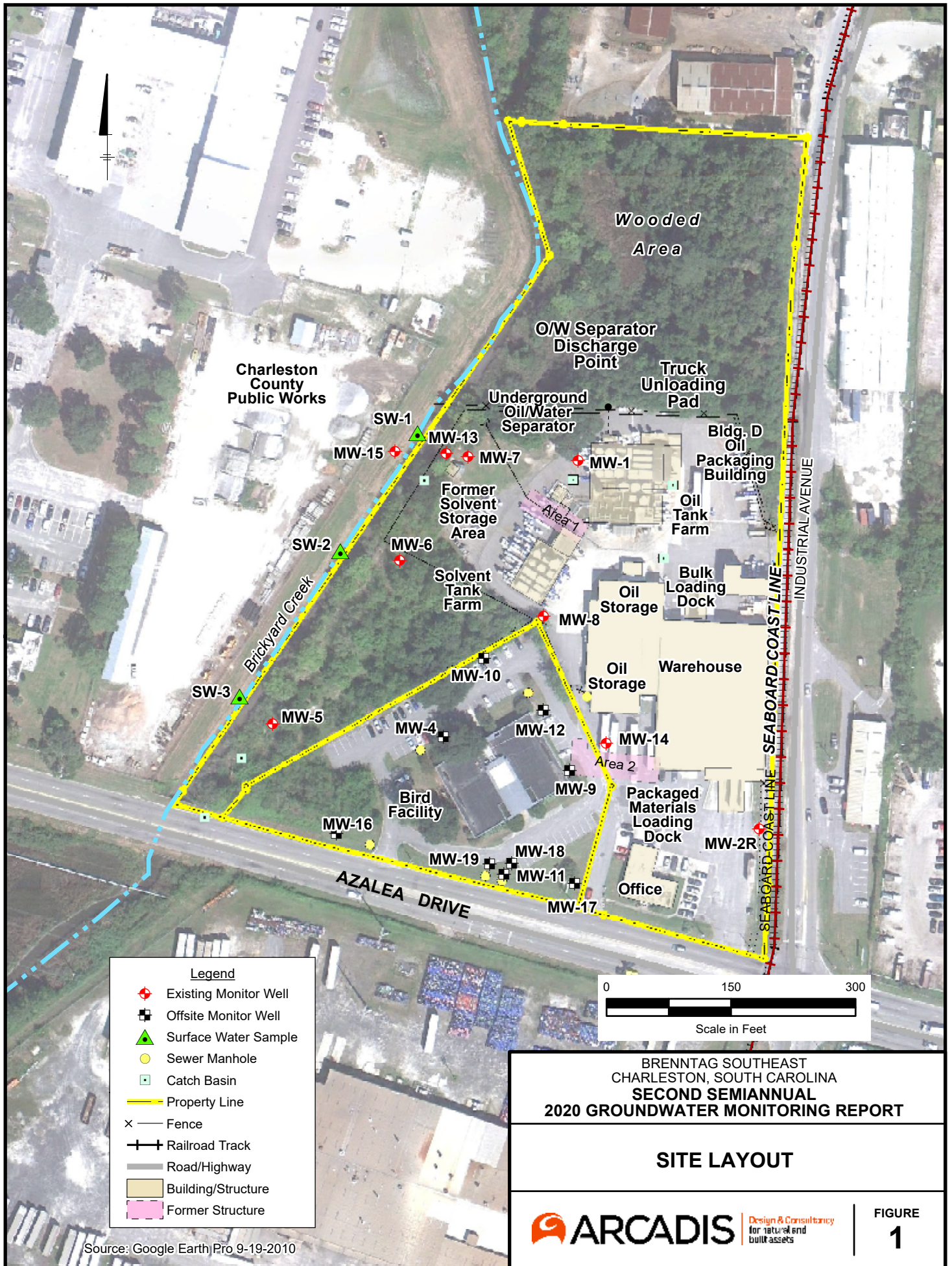
**LIST OF ABBREVIATIONS**

|                                      |                         |  |            |
|--------------------------------------|-------------------------|--|------------|
| 1,1-DCE = 1,1-Dichloroethene         | PCE = Tetrachloroethene | MC = Methylene chloride  | Ac=Acetone |
| c-1,2-DCE = cis-1,2-Dichloroethene   | CB = Chlorobenzene      | mg/L = Milligrams per liter  | T=Toluene  |
| t-1,2-DCE = trans-1,2-Dichloroethene | CH = Chloroethane       | o-DCB= 1,2-Dichlorobenzene   |            |
| 1,2-DCA = 1,2-Dichloroethane         | VC = Vinyl chloride     | Carbon Disulfide=CS <sup>2</sup>   |            |
| 1,1-DCA = 1,1-Dichloroethane         | ChI = Chloroform        | ND = Not detected  |            |
| TCE = Trichloroethene                | CM=Chloromethane        | J = Estimated value (result is between Reporting Limit and Method Detection Limit) |            |

# FIGURES







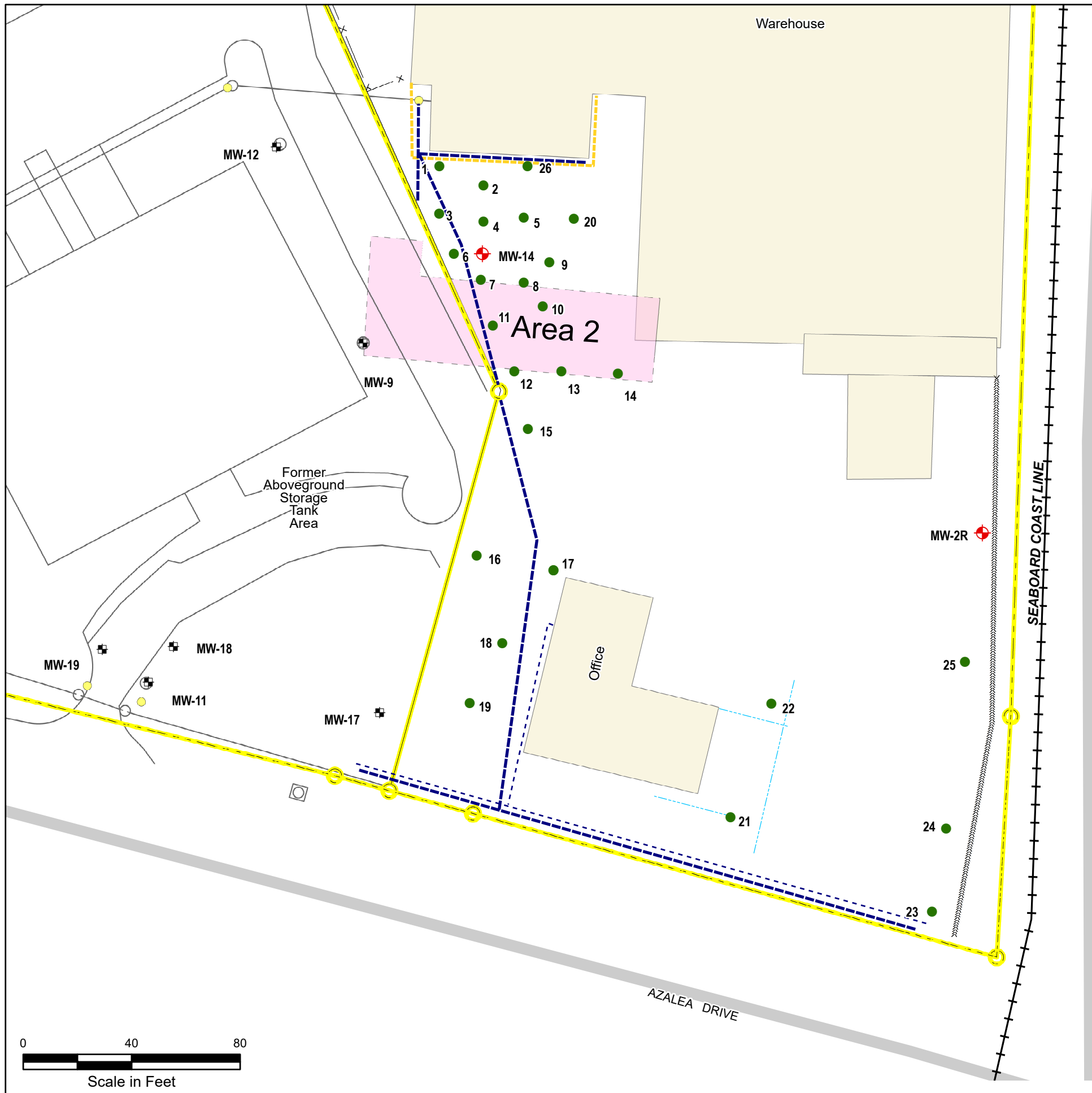
BRENTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**SECOND SEMI ANNUAL  
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**SITE LAYOUT**

|  |   |                                      |
|--|---|--------------------------------------|
|  | Design & Consultancy<br>for natural and<br>built assets | <b>FIGURE<br/>                 1</b> |
|--|---|--------------------------------------|



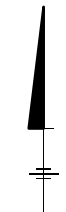
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INDUSTRIAL AVENUE

SEABOARD COAST LINE

AZALEA DRIVE



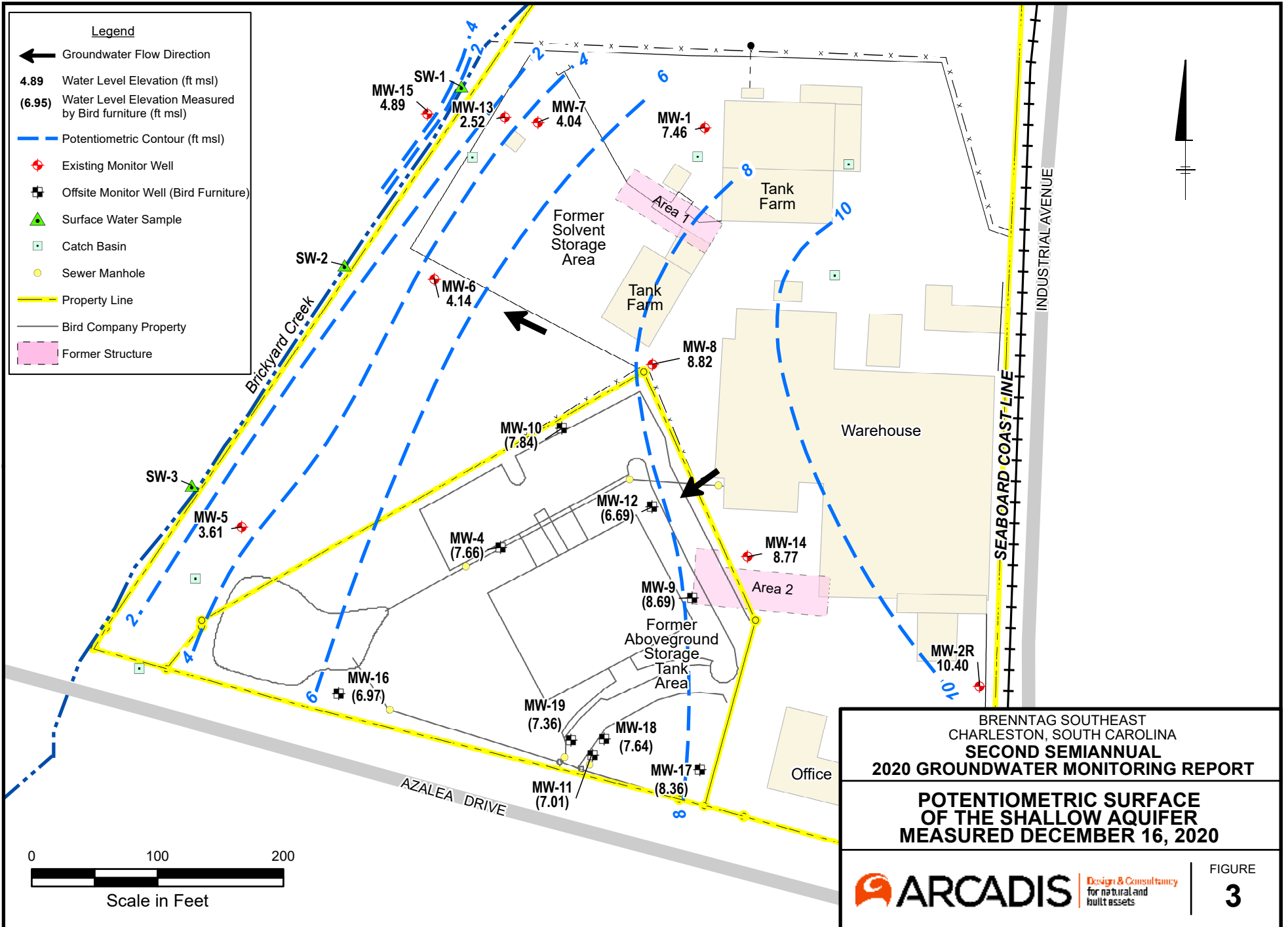
**Legend**

- Geoprobe Borings on Brenntag Property
- ⊕ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- Catch Basin
- Property Line
- Bird Company Property
- ▭ Former Structure
- - - Approximate Water line
- - - Approximate Storm Drain
- - - Approximate Underground Utilities
- - - Approximate Gas Line



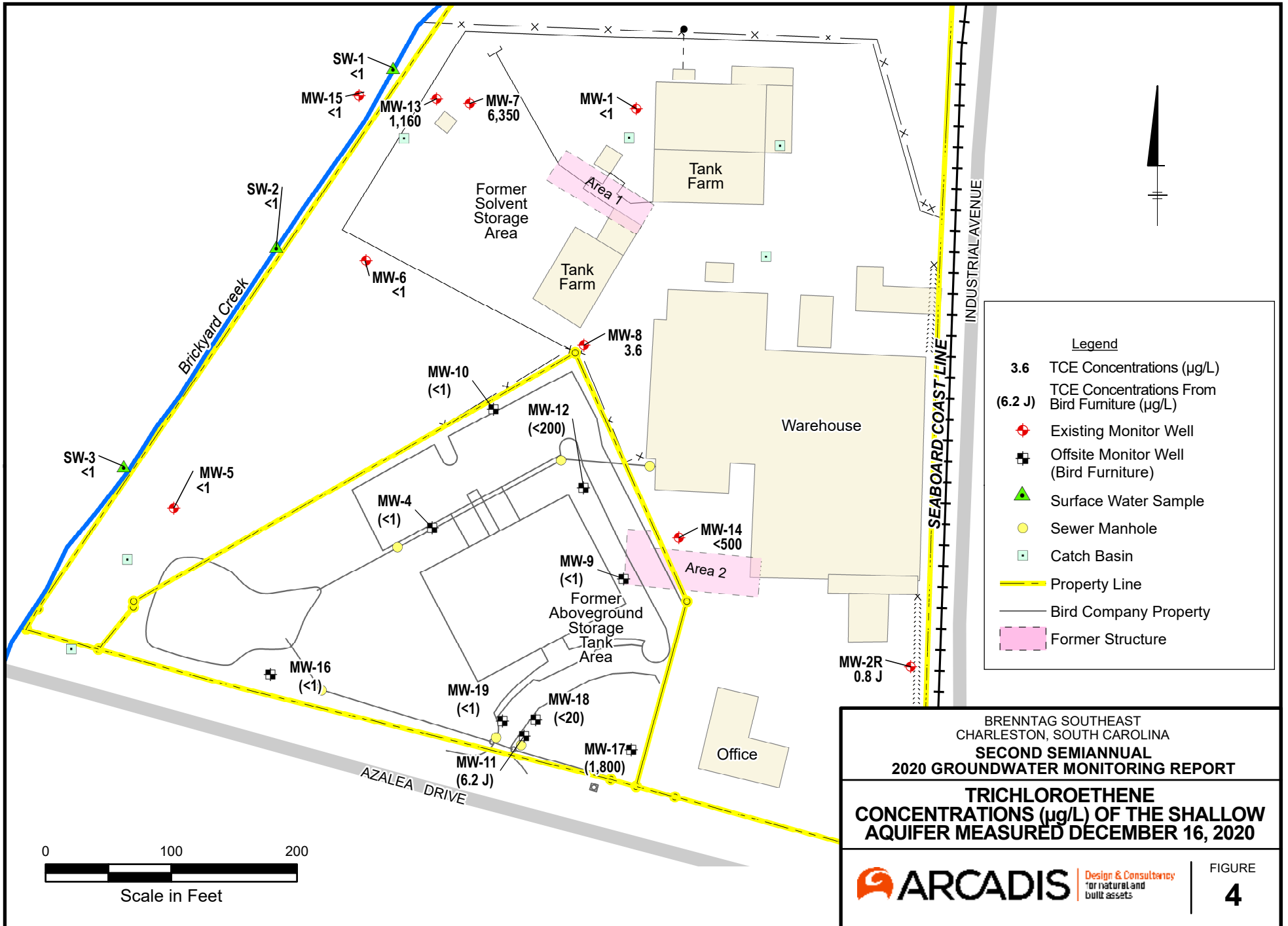
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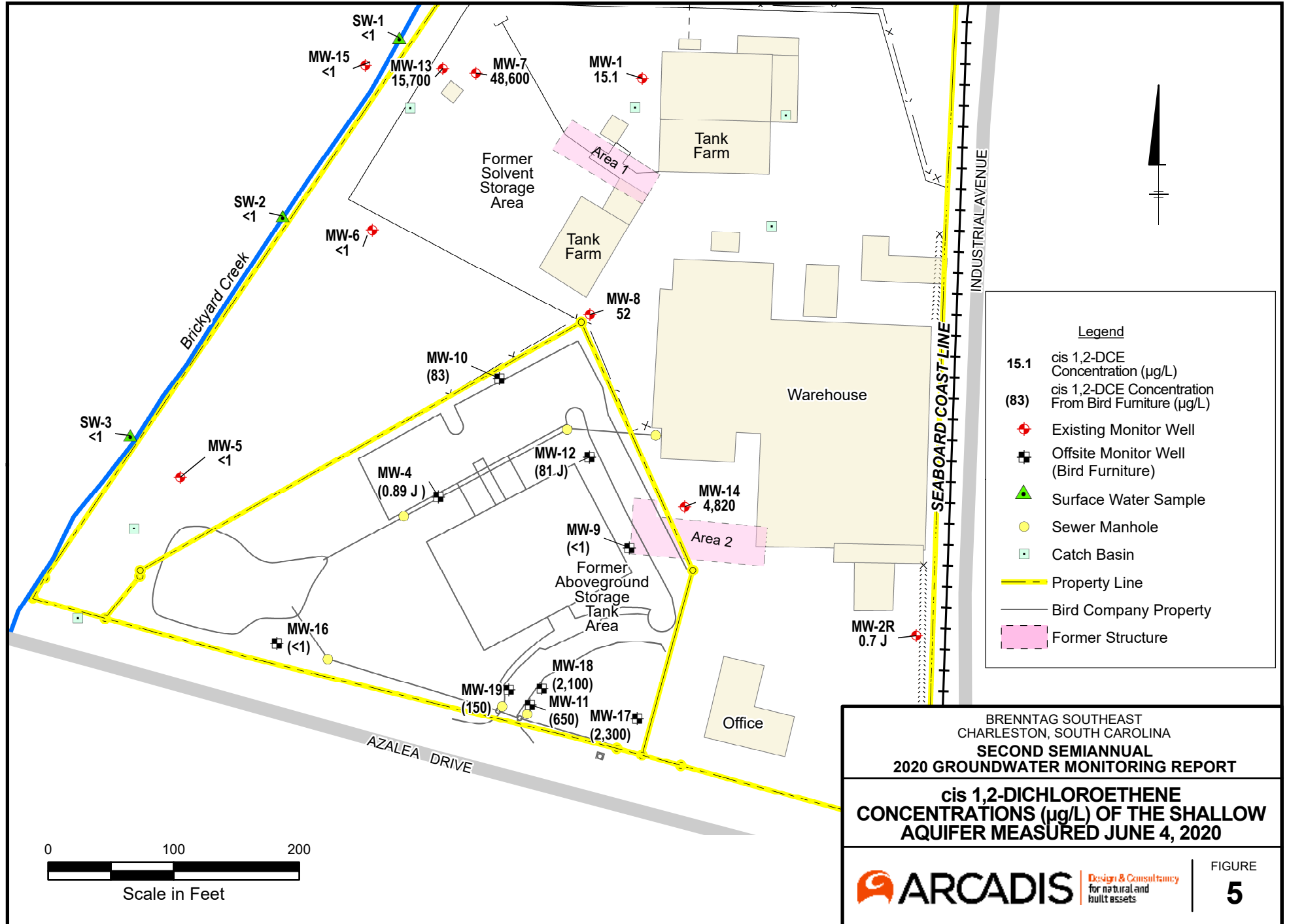
**LOCATIONS OF SOIL BORINGS AT AREA #2**

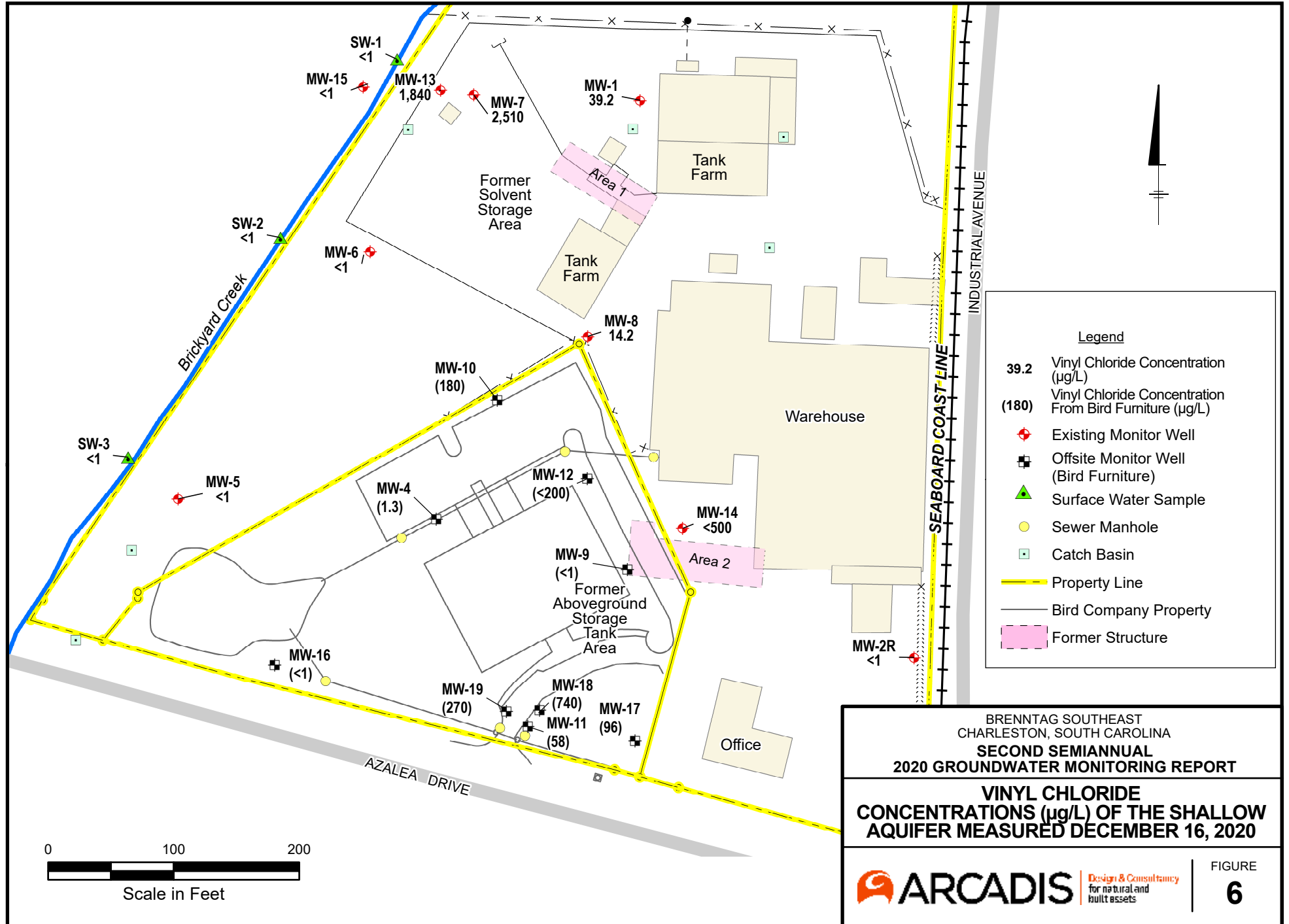


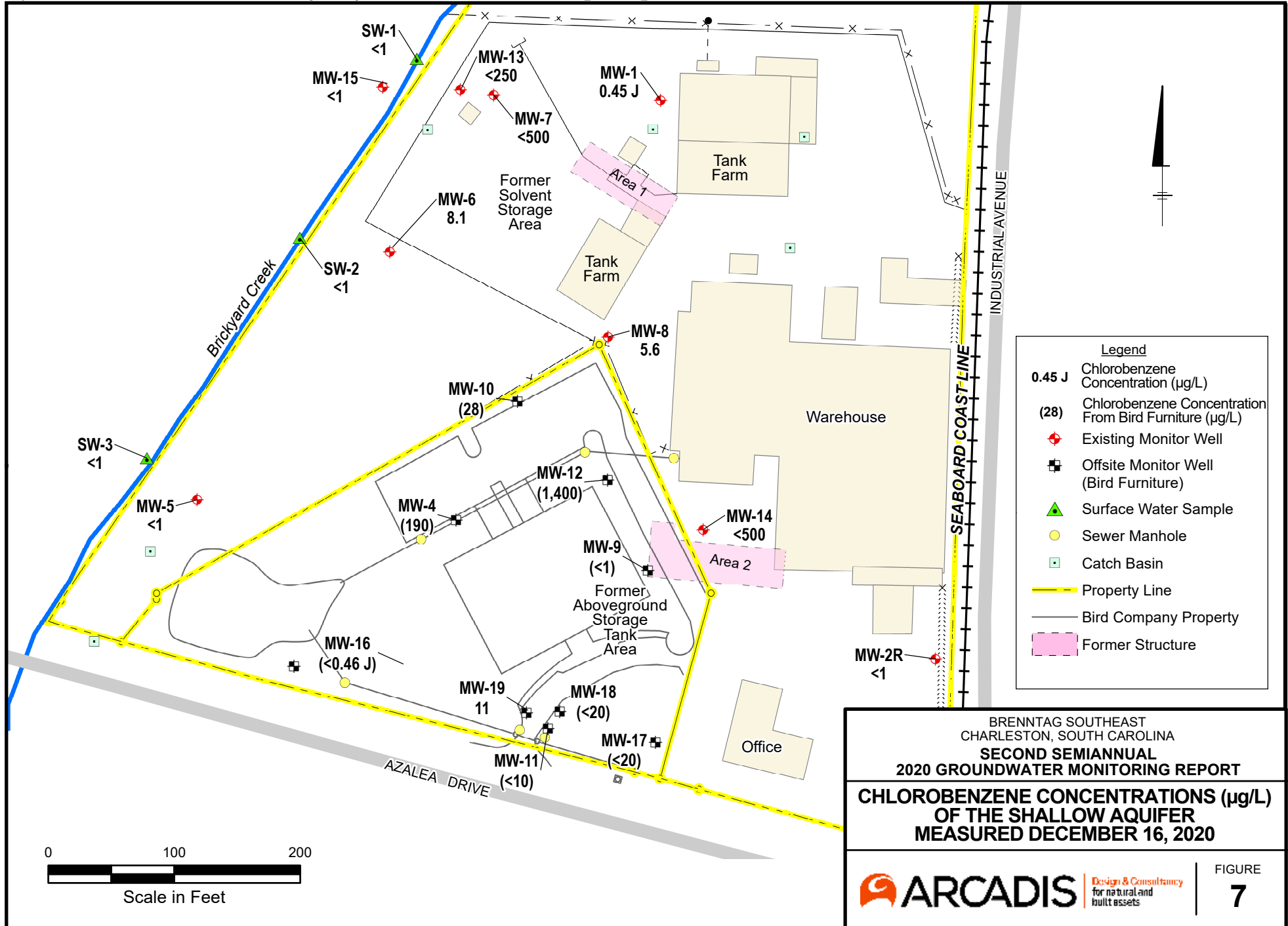
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 CHARLESTON, SOUTH CAROLINA  
**SECOND SEMIANNUAL  
 2020 GROUNDWATER MONITORING REPORT**

**POTENTIOMETRIC SURFACE  
 OF THE SHALLOW AQUIFER  
 MEASURED DECEMBER 16, 2020**

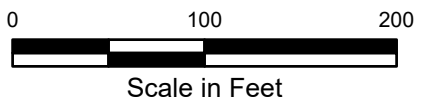




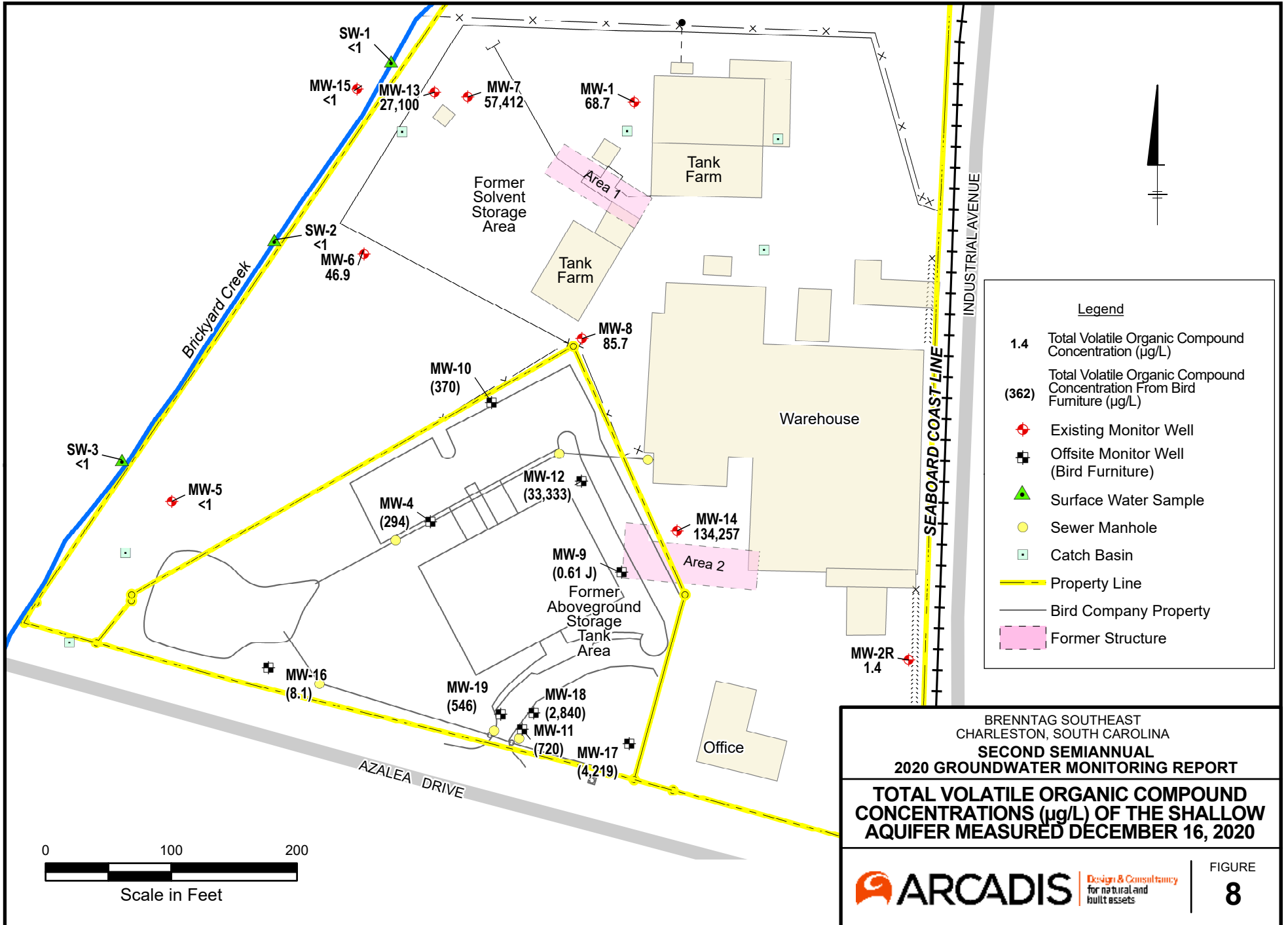




BRENNTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
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 2020 GROUNDWATER MONITORING REPORT**  
**CHLOROBENZENE CONCENTRATIONS ( $\mu\text{g/L}$ )  
 OF THE SHALLOW AQUIFER  
 MEASURED DECEMBER 16, 2020**







BRENNTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**SECOND SEMIANNUAL  
 2020 GROUNDWATER MONITORING REPORT**

**TOTAL VOLATILE ORGANIC COMPOUND  
 CONCENTRATIONS ( $\mu\text{g/L}$ ) OF THE SHALLOW  
 AQUIFER MEASURED DECEMBER 16, 2020**

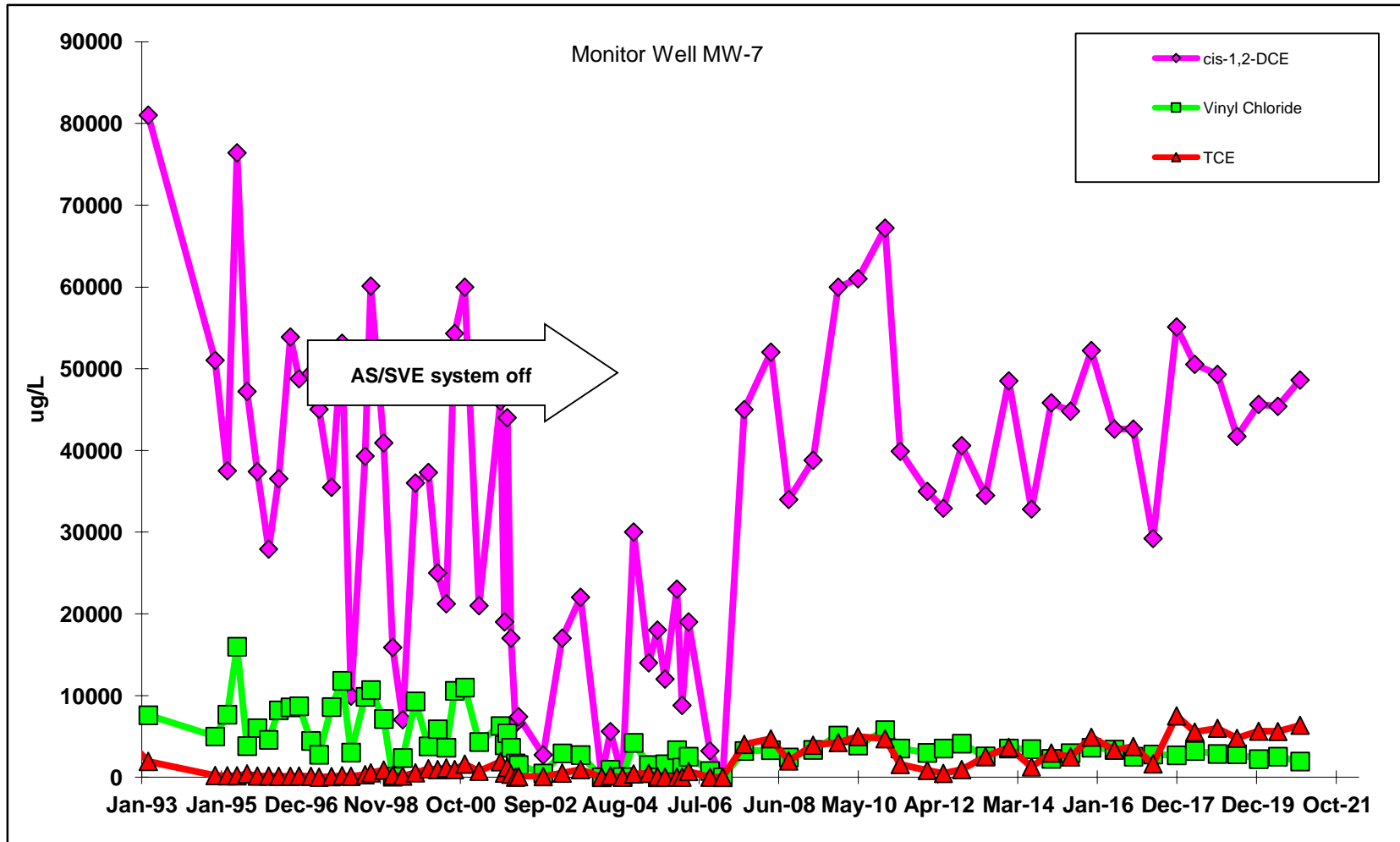


Figure 9. TCE and Degradation Product Trends at Monitor Well MW-7



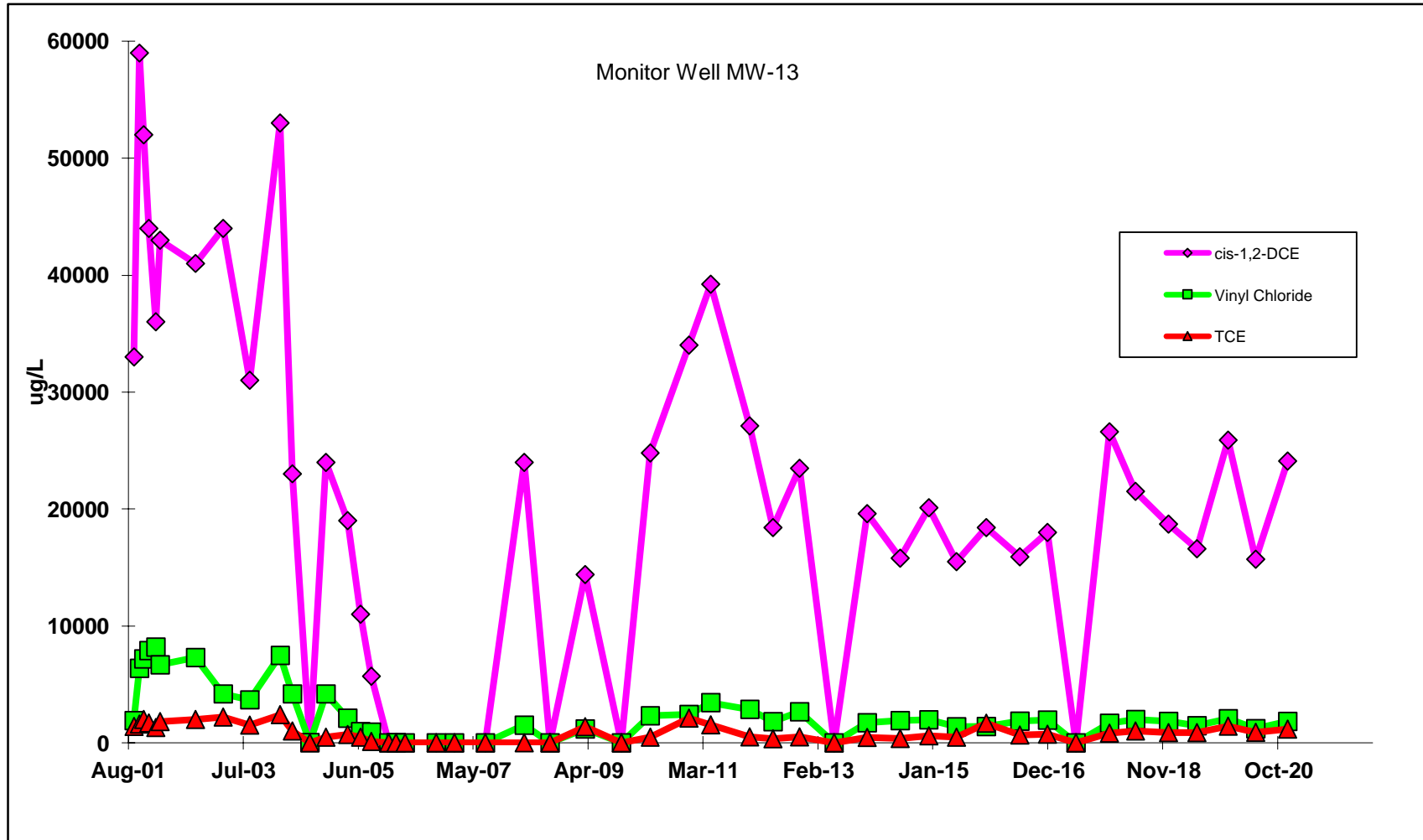
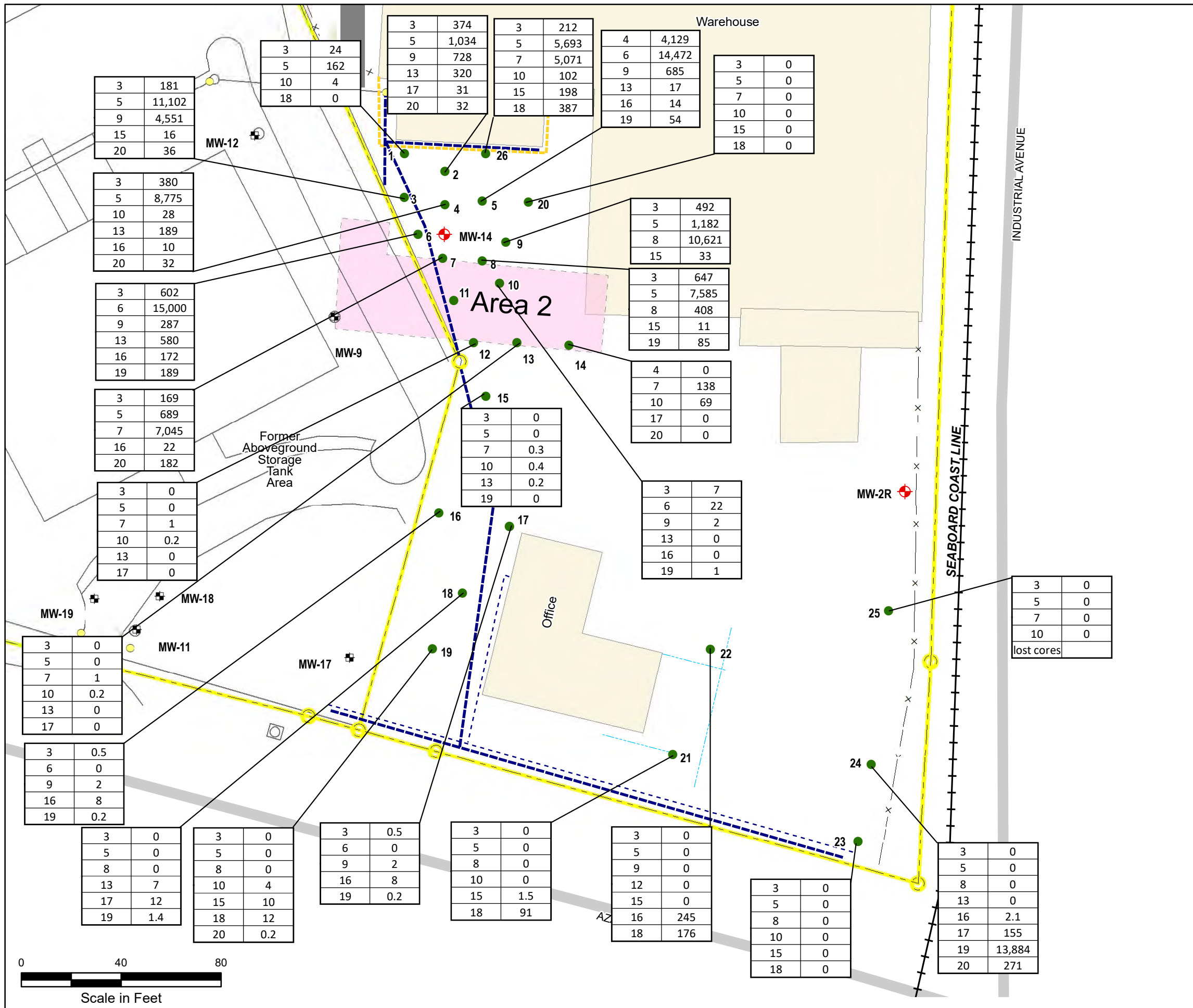


Figure 10. TCE and Degradation Product Trends at Monitor Well MW-13

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 Project Number: Path: C:\BIM\OneDrive - ARCADIS\GIS\Brenntag\Brenntag Charleston SC GIS\2020\30016339\01-1MXD\Dec 2020 PID-Bird Prop4.mxd Date Saved: 1/27/2021 8:20:12 PM



**Legend**

- Geoprobe Borings on Brenntag Property
- ◆ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- Catch Basin
- Property Line
- Bird Company Property
- Former Structure
- - - Approximate Water line
- - - Approximate Storm Drain
- - - Approximate Underground Utilities
- - - Approximate Gas Line

| Depth in Feet | 3 | 24  | PID Reading in ppm |
|---------------|---|-----|--------------------|
| 5             | 0 | 162 |                    |
| 10            | 0 | 4   |                    |
| 18            | 0 | 0   |                    |
| lost cores    |   |     |                    |

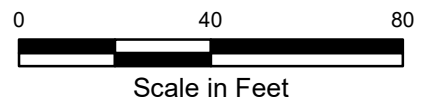
PID Photo Ionization Reading  
 ppm Parts Per Million

BRENTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**2020 GROUNDWATER MONITORING REPORT**

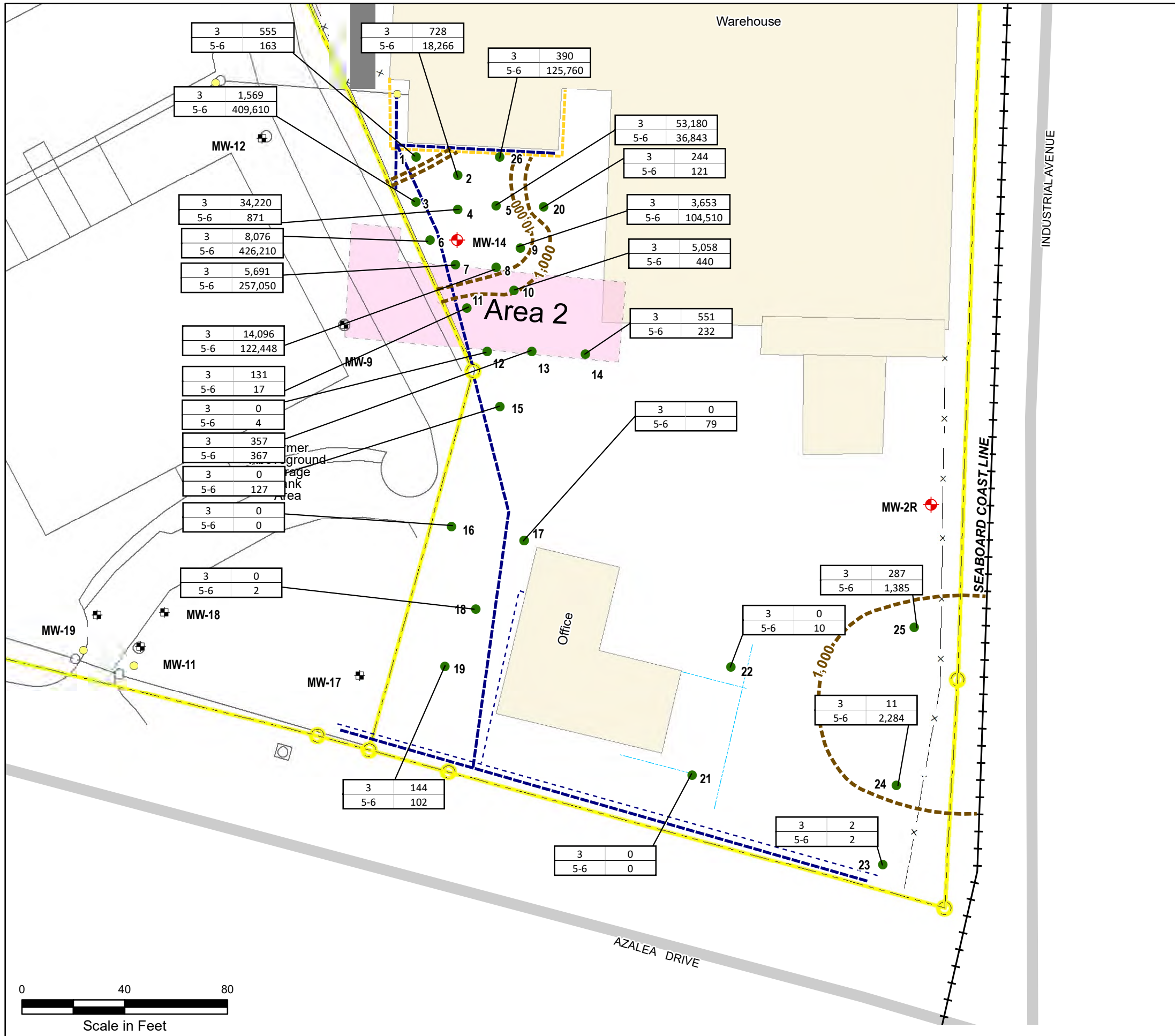
**PHOTOIONIZATION READINGS**

**ARCADIS** Design & Consultancy  
 for natural and built assets

FIGURE **11**



CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR: Project Number: Path: C:\BIM\OneDrive - ARCADIS\GIS\Brenntag\Brenntag Charleston SC GIS\2020\30016339\01-1MXD\Dec 2020 Chlor SOIL Bird Prop4.mxd Date Saved: 1/27/2021 8:29:57 PM



**Legend**

- Geoprobe Borings on Brenntag Property
- ◆ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- Catch Basin
- Property Line
- Bird Company Property
- Former Structure
- - - Approximate Water line
- - - Approximate Storm Drain
- - - Approximate Underground Utilities
- - - Approximate Gas Line

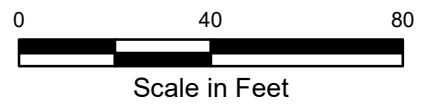
Depth in Feet

|     |     |   |
|-----|-----|---|
| 3   | 555 | Chlorinated Solvent Concentration (µg/kg) |
| 5-6 | 163 |   |

NS Not Sampled

1,000 Isoconcentration Contour (µg/kg)

µg/kg Micrograms per Kilogram



BRENTTAG SOUTHEAST  
CHARLESTON, SOUTH CAROLINA  
**SECOND SEMI ANNUAL  
2020 GROUNDWATER MONITORING REPORT**

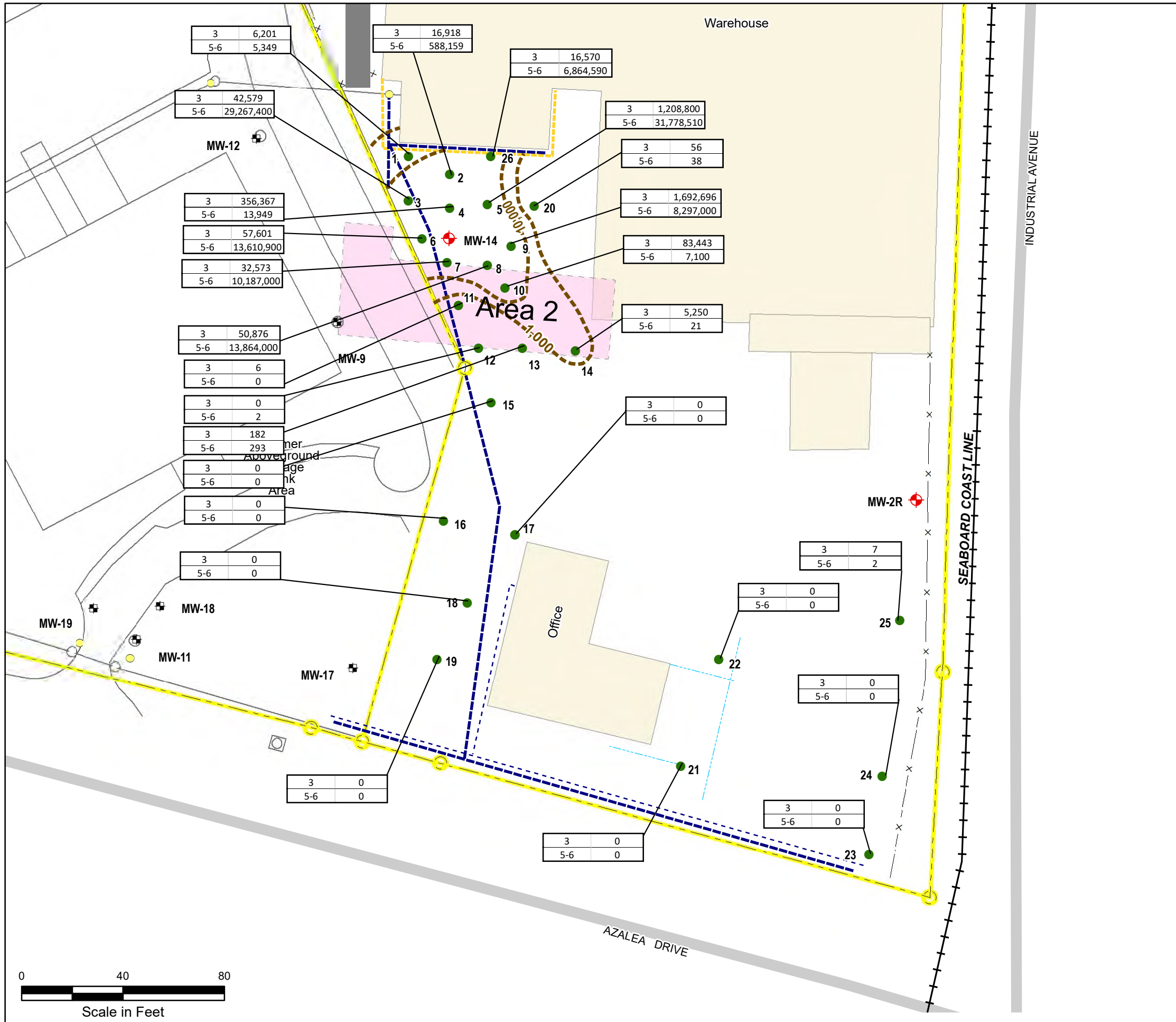
**CHLORINATED SOLVENTS  
CONCENTRATIONS IN SOIL**

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built assets

FIGURE  
**12**



CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR: Project Number: Path: C:\BIM\OneDrive - ARCADIS\GIS\Brenntag\Brenntag Charleston SC GIS\2020\30016339\01-1MXD\Dec 2020 Hydro SOIL Bird Prop4.mxd Date Saved: 1/27/2021 8:30:40 PM



**Legend**

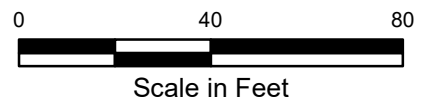
- Geoprobe Borings on Brenntag Property
- ◆ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- Catch Basin
- Property Line
- Bird Company Property
- Former Structure
- - - Approximate Water line
- - - Approximate Storm Drain
- - - Approximate Underground Utilities
- - - Approximate Gas Line

| Depth in Feet | 3   | 555 | Chlorinated Solvent Concentration (µg/kg) |
|---------------|-----|-----|---|
|               | 3   | 555 | Chlorinated Solvent Concentration (µg/kg) |
|               | 5-6 | 163 |   |

NS Not Sampled

— 1,000 Isoconcentration Contour (µg/kg)

µg/kg Micrograms per Kilogram



BRENNTAG SOUTHEAST  
CHARLESTON, SOUTH CAROLINA  
**SECOND SEMIANNUAL  
2020 GROUNDWATER MONITORING REPORT**

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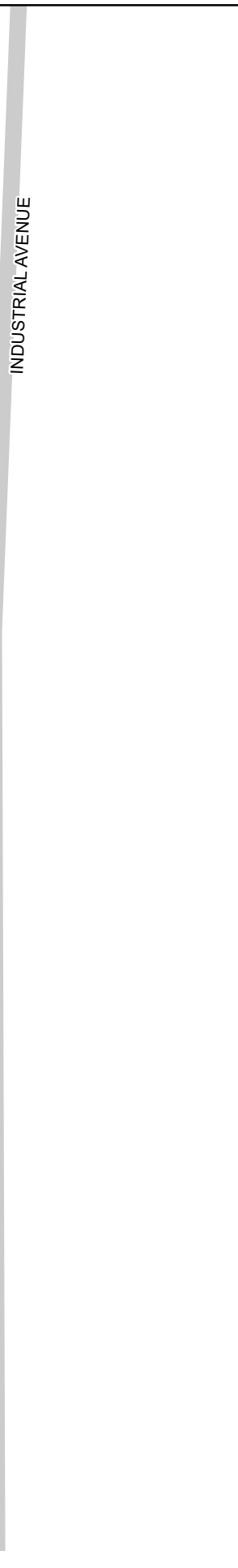
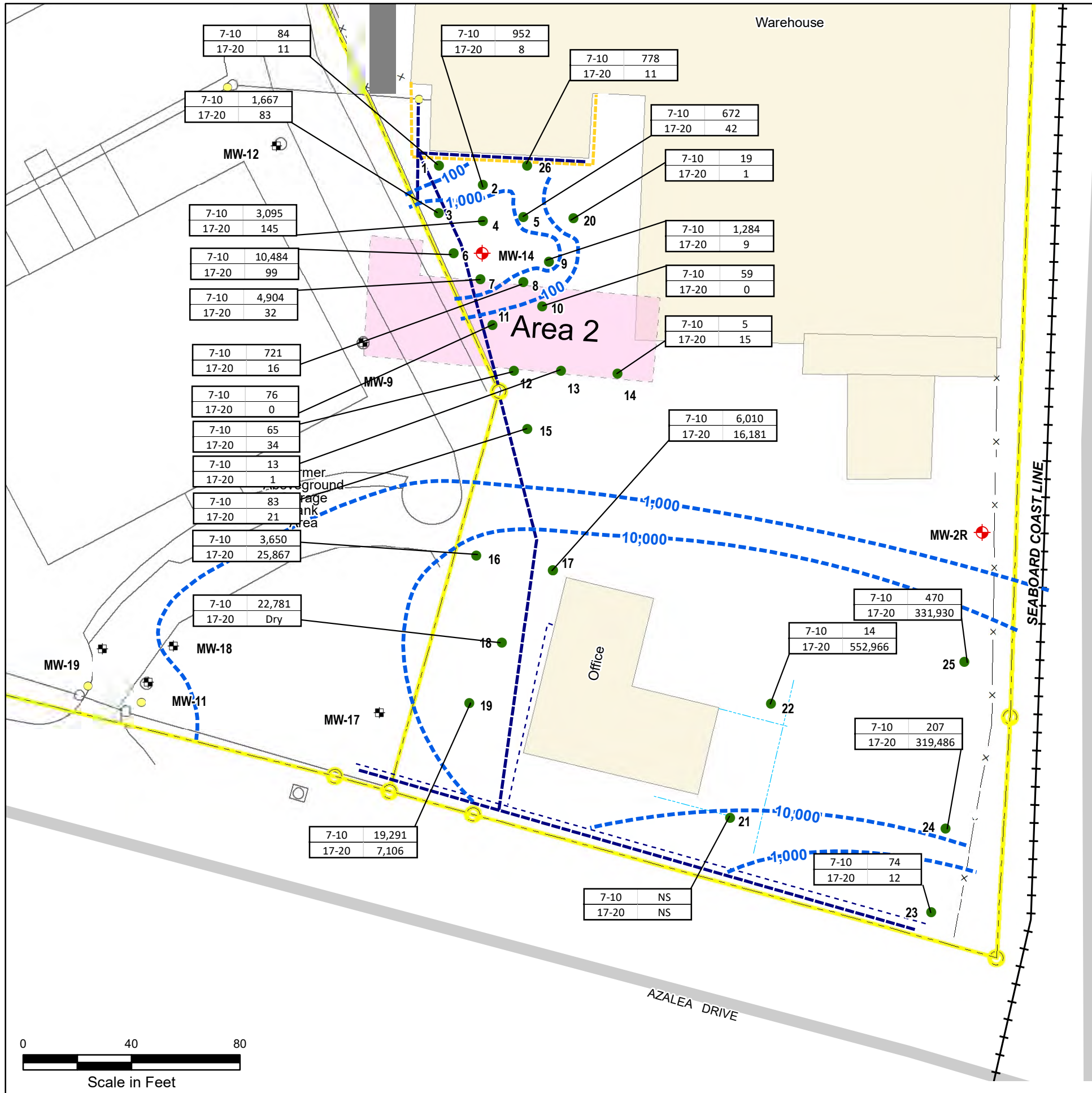
**HYDROCARBON CONCENTRATIONS IN SOIL**

---

**ARCADIS** Design & Consultancy  
for natural and  
built assets

FIGURE  
**13**

CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR: Project Number: Path: C:\BIM\OneDrive - ARCADIS\GIS\Brenntag\Brenntag Charleston SC GIS\2020\30016339\01-1MXD\Dec 2020 Chlor GW Bird Prop4.mxd Date Saved: 1/27/2021 8:46:46 PM



**Legend**

- Geoprobe Borings on Brenntag Property
- ⊕ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- Catch Basin
- Property Line
- Bird Company Property
- Former Structure
- - - Approximate Water line
- - - Approximate Storm Drain
- - - Approximate Underground Utilities
- - - Approximate Gas Line

| Depth in Feet | 7-10  | 17-20 | Chlorinated Solvent Concentration (µg/L) |
|---------------|-------|-------|--|
| 1,000         | 1,098 | 31    |  |

NS Not Sampled

1,000 Isoconcentration Contour (µg/L)

µg/L Micrograms per Liter

BRENTTAG SOUTHEAST  
CHARLESTON, SOUTH CAROLINA  
**SECOND SEMIANNUAL  
2020 GROUNDWATER MONITORING REPORT**

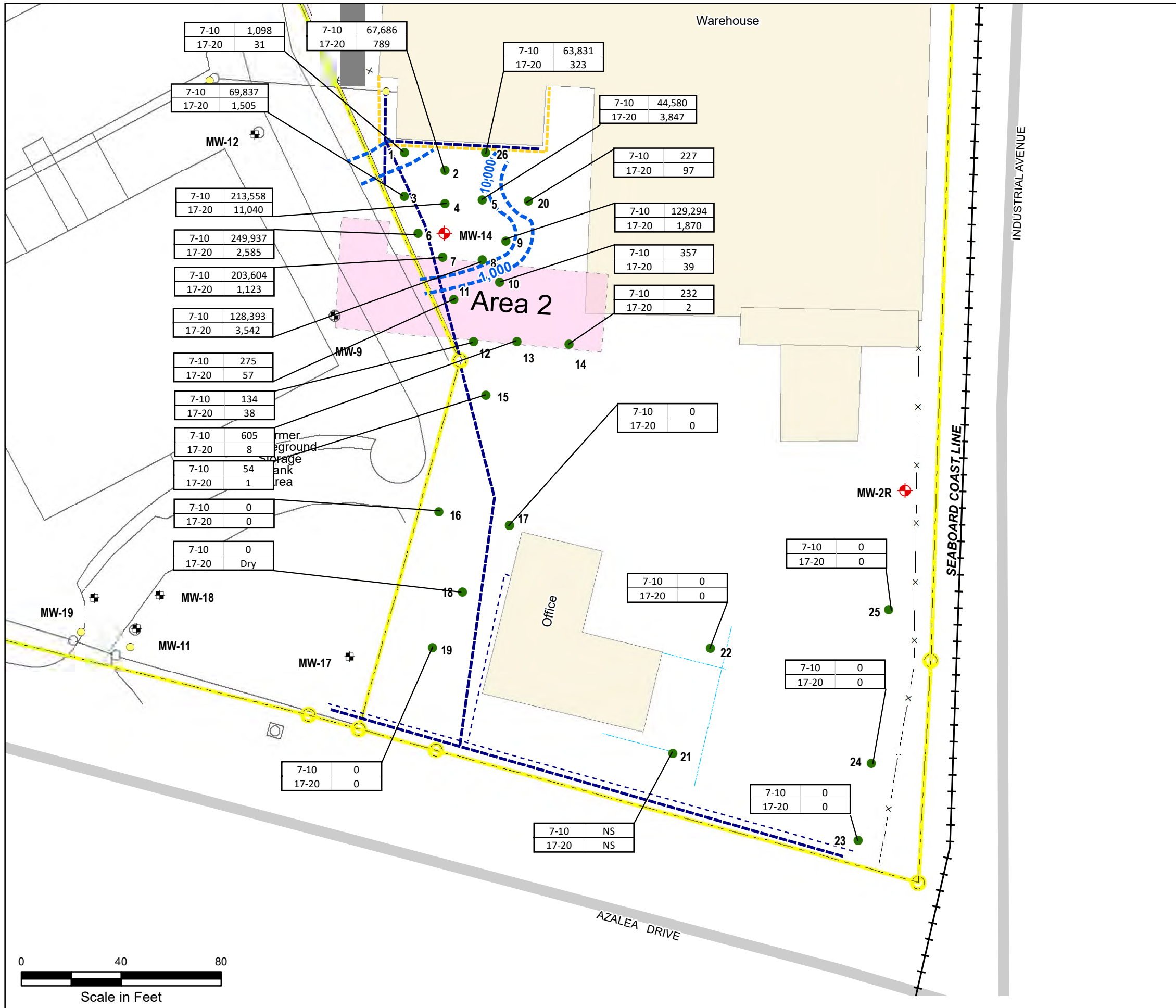
**CHLORINATED SOLVENT  
CONCENTRATIONS IN SHALLOW AQUIFER**

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FIGURE  
**14**



CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR: Project Number: Path: C:\BIM\OneDrive - ARCADIS\GIS\Brenntag\Brenntag Charleston SC GIS\2020\30016339\01-1MXD\Dec 2020 Hydro GW Bird Prop4.mxd Date Saved: 1/27/2021 8:47:46 PM



**Legend**

- Geoprobe Borings on Brenntag Property
- ⊕ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- Catch Basin
- Property Line
- Bird Company Property
- Former Structure
- - - Approximate Water line
- - - Approximate Storm Drain
- - - Approximate Underground Utilities
- - - Approximate Gas Line

Depth in Feet 

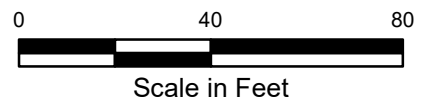
|       |       |
|-------|-------|
| 7-10  | 1,098 |
| 17-20 | 31    |

 Hydrocarbon Concentration (µg/L)

NS Not Sampled

- - - 1,000 Isoconcentration Contour (µg/L)

µg/L Micrograms per Liter



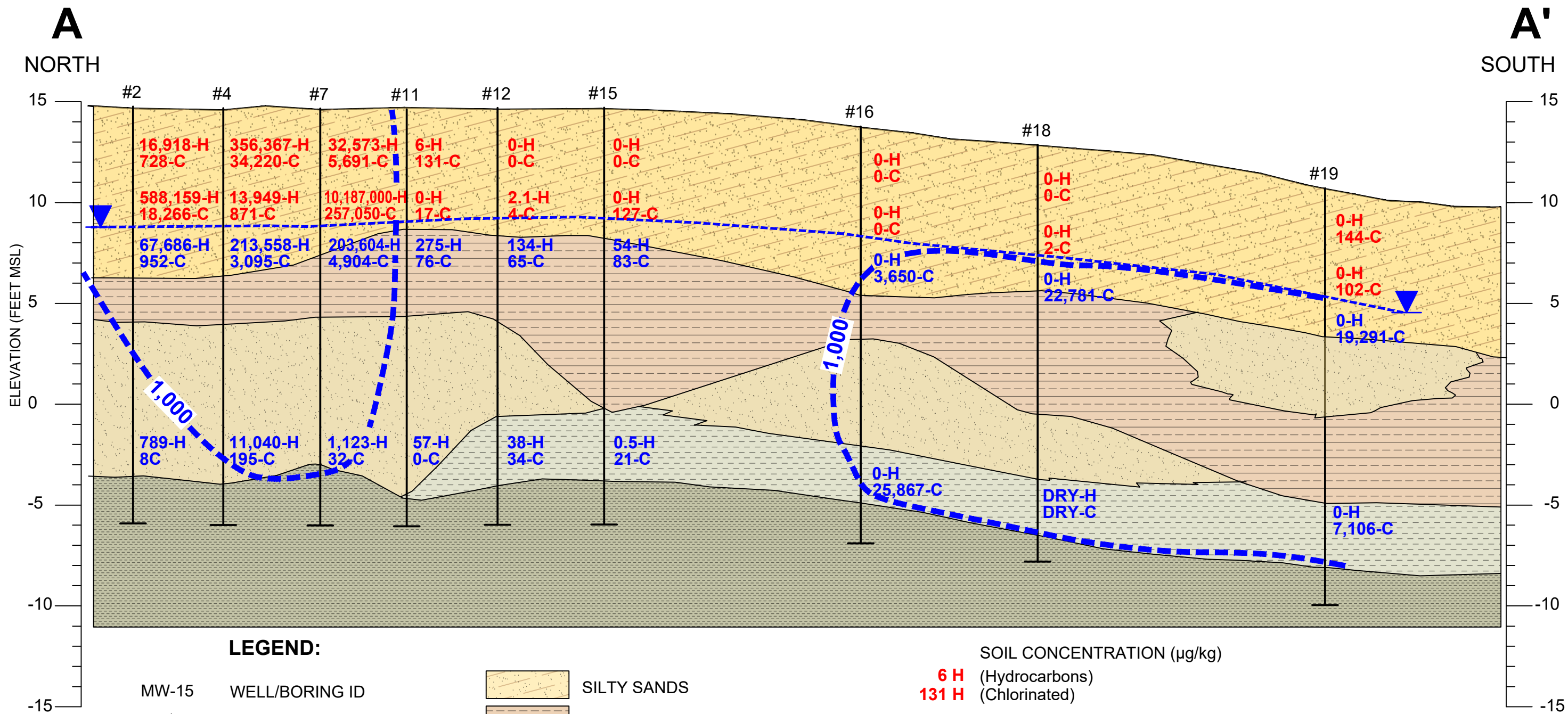
BRENTTAG SOUTHEAST  
CHARLESTON, SOUTH CAROLINA  
**SECOND SEMI ANNUAL  
2020 GROUNDWATER MONITORING REPORT**

**HYDROCARBON CONCENTRATIONS  
IN SHALLOW AQUIFER**

**ARCADIS** Design & Consultancy  
for natural and built assets

FIGURE  
**15**

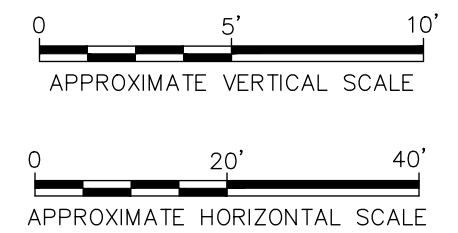
CITY: (KNOXVILLE) DIV: (GROUP: (ENV/IGIS) DB: (BALTOM) LD: (C. SMITH) PIC: (M. FLEISCHNER) PK: (L. MINER) TM: (J. FRIZZELL)  
 C:\Users\wberndg\ARCADIS-US\BIM-360\Arcadis\BIA - BRENNTAG PACIFIC\NOI\Project Files\Brenntag SC\3004825\01-DWG\BRENNTAG\XSECT.dwg LAYOUT: A-A' SAVED: 2/1/2021 2:26 PM ACADVER: 23.05 (LMS TECH) PAGES: 10 PLOTTED: 2/1/2021 2:34 PM BY: BERNDGEN, WENDY



**LEGEND:**

- |       |                            |  |                          |
|-------|----------------------------|--|--------------------------|
| MW-15 | WELL/BORING ID             |  | SILTY SANDS              |
|       | APPROXIMATE GROUND SURFACE |  | SILTY CLAYS/SANDS        |
|       | LITHOLOGIC CONTACT         |  | SC STIFF GREEN CLAYS     |
|       | WATER LEVEL                |  | STIFF GREEN CLAYS        |
|       | WELL SCREEN                |  | TIGHT FINE GRAINED SANDS |
|       | WELL/BORING BOTTOM         |  |                          |

- SOIL CONCENTRATION (µg/kg)
- 6 H** (Hydrocarbons)
  - 131 H** (Chlorinated)
- GROUNDWATER CONCENTRATION (µg/L)
- 54 H** (Hydrocarbons)
  - 83 H** (Chlorinated)
- 20** --- ISOCONCENTRATION CONTOUR (mg/L)



BRENNTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**2020 GROUNDWATER MONITORING REPORT**

**A-A' CROSS-SECTION**

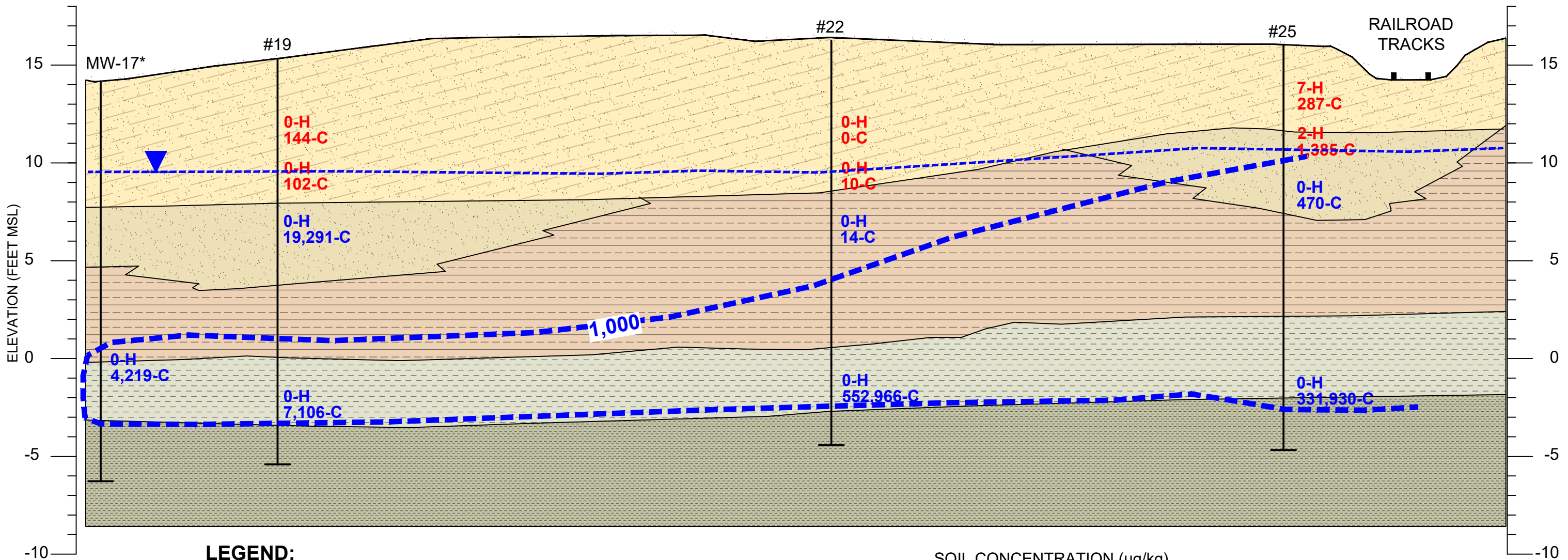
Design & Consultancy  
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FIGURE  
**16**

CITY: (KNOXVILLE) DIV: (GROUP: (ENV/IGIS) DB: (B/AL/TOM) LD: (C/SMITH) PIC: (M/FLEISCHNER) PK: (L/MINER) TM: (J/FRIZZELL)  
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**B**  
WEST

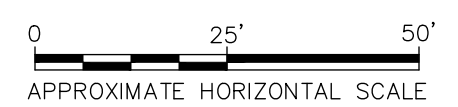
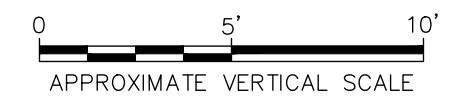
**B'**  
EAST



**LEGEND:**

- MW-15 WELL/BORING ID
- APPROXIMATE GROUND SURFACE
- LITHOLOGIC CONTACT
- WATER LEVEL
- WELL SCREEN
- WELL/BORING BOTTOM
- SILTY SANDS
- SILTY CLAYS/SANDS
- SC STIFF GREEN CLAYS
- STIFF GREEN CLAYS
- TIGHT FINE GRAINED SANDS

- SOIL CONCENTRATION (µg/kg)
- 7 H (Hydrocarbons)
- 287 H (Chlorinated)
- GROUNDWATER CONCENTRATION (µg/L)
- 0 H (Hydrocarbons)
- 470 H (Chlorinated)
- 1,000 --- ISOCONCENTRATION CONTOUR (mg/L)



BRENNTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**2020 GROUNDWATER MONITORING REPORT**

**B-B' CROSS-SECTION**



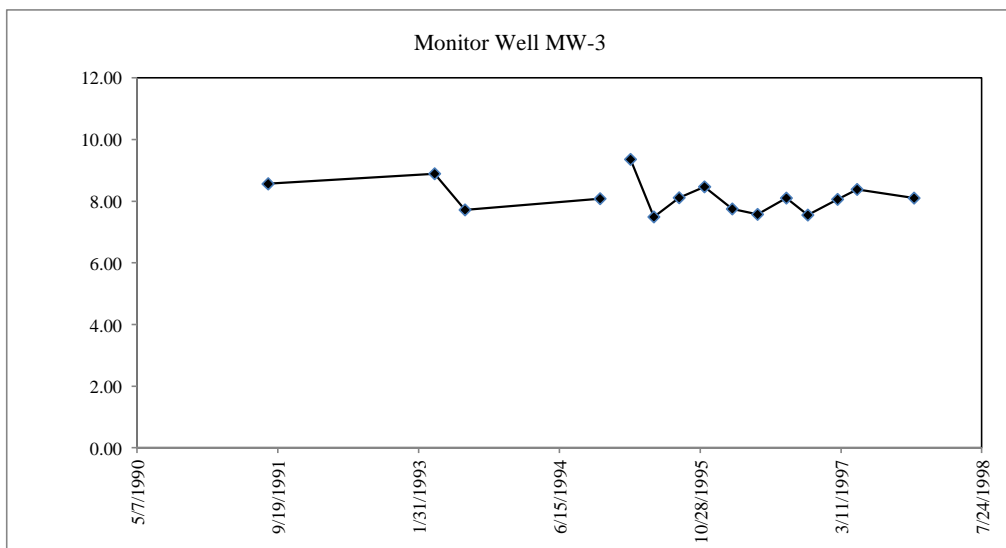
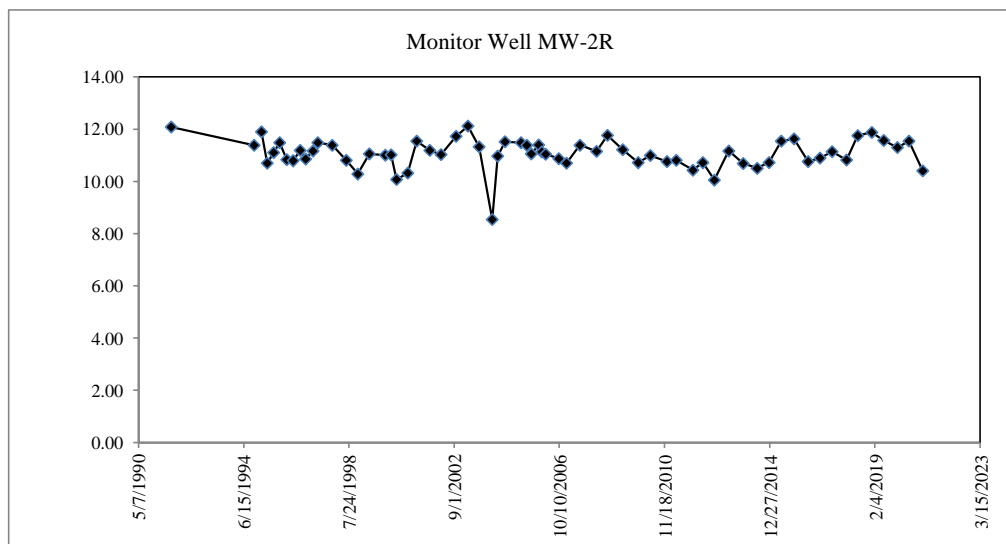
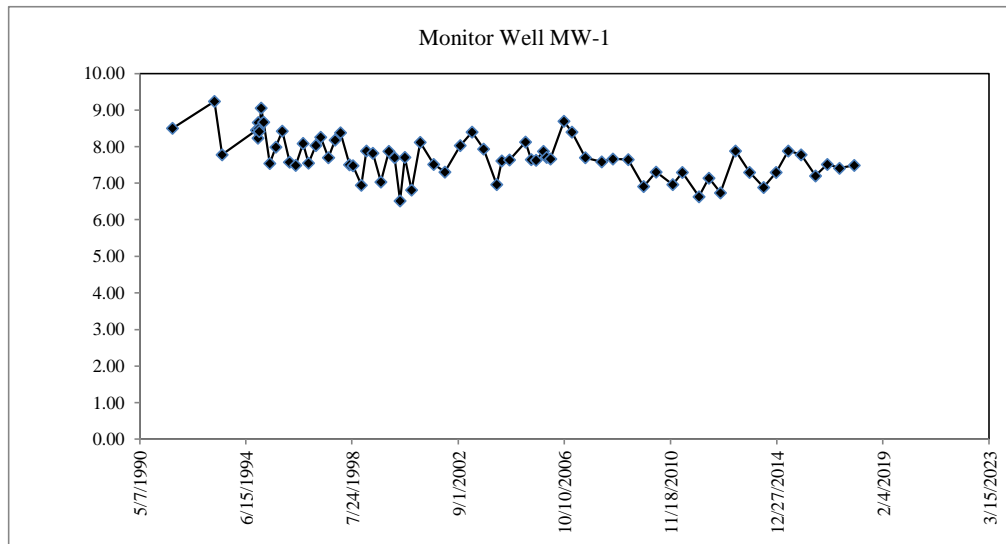


# APPENDIX A

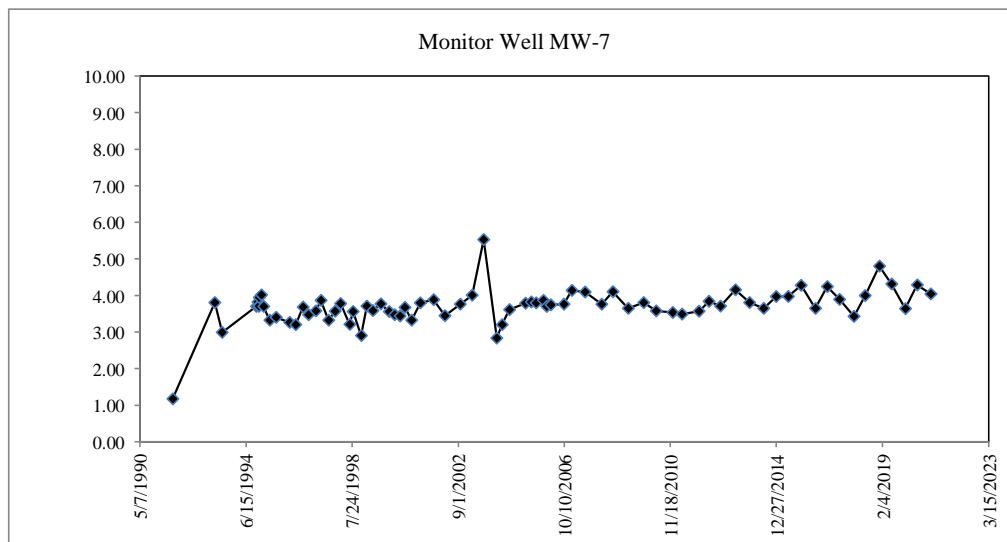
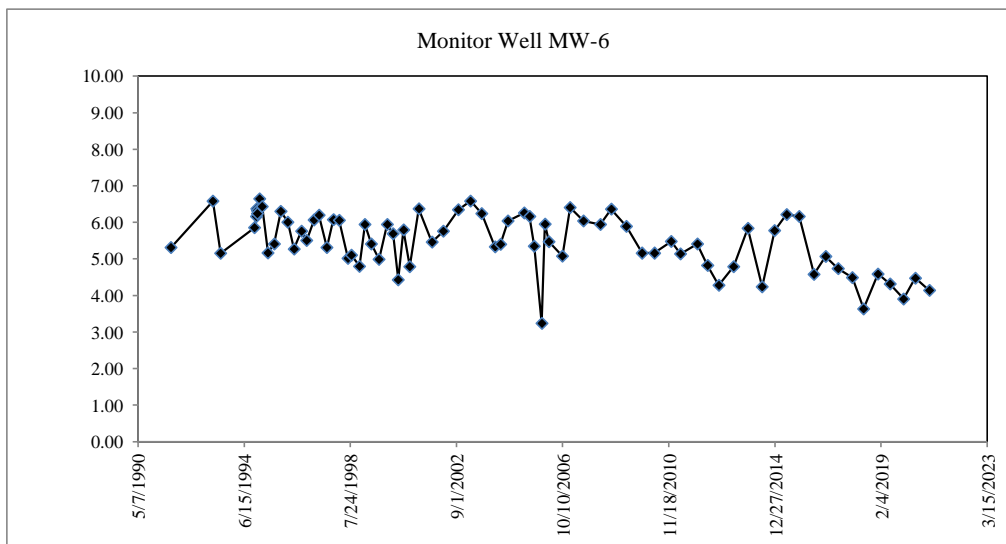
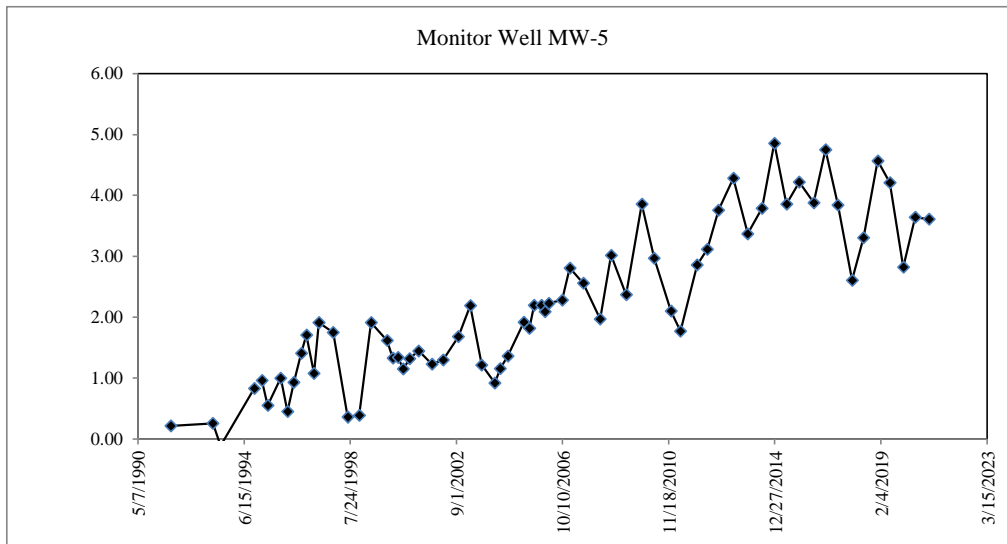
## Groundwater Elevations-Hydrographs



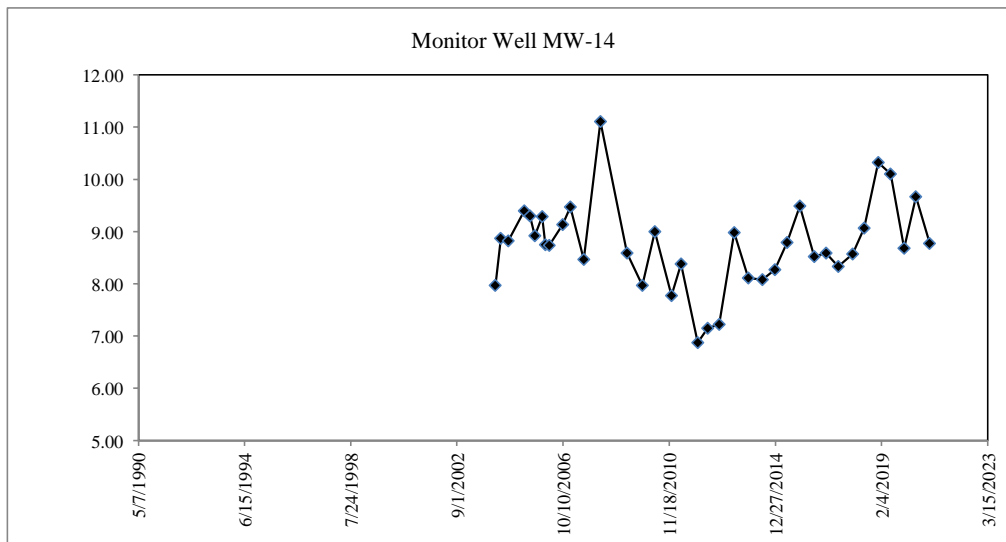
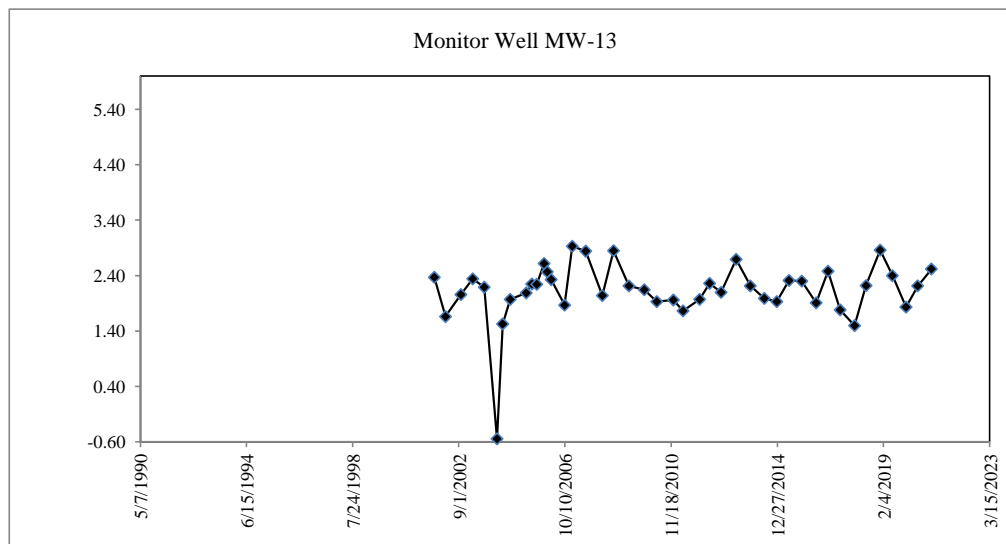
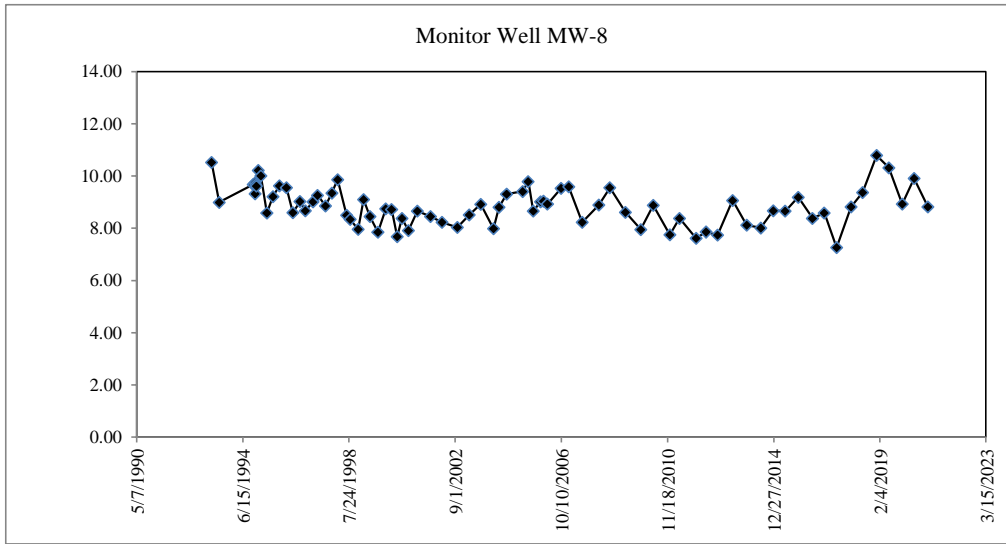
Appendix A. Groundwater Elevation Hydrographs  
 Brenntag Southeast,  
 Charleston, South Carolina  
 (revised 12/21/2020)



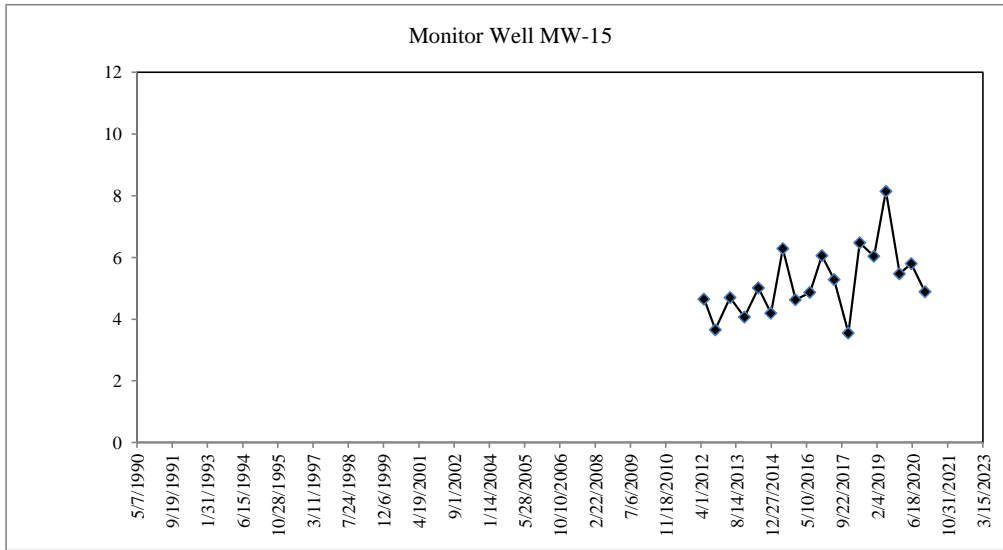
Appendix A. Groundwater Elevation Hydrographs  
 Brenntag Southeast,  
 Charleston, South Carolina  
 (revised 12/21/2020)



Appendix A. Groundwater Elevation Hydrographs  
 Brenntag Southeast,  
 Charleston, South Carolina  
 (revised 12/21/2020)



Appendix A. Groundwater Elevation Hydrographs  
Brenntag Southeast,  
Charleston, South Carolina  
(revised 12/21/2020)



# APPENDIX B

## Groundwater Field Water Sampling Logs





**SURFACE WATER SAMPLING FORM**

Project No. SC000204.0017.00001

Date 12-16-20

Site Location : Brenntag Southeast, Charleston, South Carolina

Time start sampling 0720

Sample Loc. : SW-3

Time end sampling \_\_\_\_\_

**FIELD SAMPLING DATA**

| pH          | Cond.<br>(µMhos)<br>(mS/cm) | Turbidity<br>(NTU) | Temp.<br>(°C)<br><u>PT</u> | Dissolved<br>Oxygen<br>(mg/L) | Redox<br>(mV) | Appearance   |           |
|-------------|-----------------------------|--------------------|----------------------------|-------------------------------|---------------|--------------|-----------|
|             |                             |                    |                            |                               |               | Color        | Odor      |
| <u>6.94</u> | <u>19.5</u>                 | <u>14</u>          | <u>15.34</u>               | <u>5.73</u>                   | <u>175</u>    | <u>Clear</u> | <u>NO</u> |

**STREAM MEASUREMENT DATA**

| Time     | Stream<br>Depth | Stream<br>Width | Velocity<br>(ft/sec) |
|----------|-----------------|-----------------|----------------------|
| <u>—</u> | <u>—</u>        | <u>—</u>        | <u>—</u>             |

| Constituents Sampled |
|----------------------|
| <u>8260B</u>         |
|                      |
|                      |
|                      |
|                      |
|                      |
|                      |

| Container         | Number   |
|-------------------|----------|
| <u>40 ml vial</u> | <u>3</u> |
|                   |          |
|                   |          |
|                   |          |
|                   |          |
|                   |          |
|                   |          |

Remarks \_\_\_\_\_

Sampling Personnel J. O'BRIEN



**SURFACE WATER SAMPLING FORM**

Project No. SC000204.0017.00001

Date 12-16-20

Site Location : Brenntag Southeast, Charleston, South Carolina

Time start sampling 0730

Sample Loc. : SW-2

Time end sampling -

**FIELD SAMPLING DATA**

| pH   | Cond.<br>( <del>µmhos</del> )<br>(mS/cm) | Turbidity<br>(NTU) | Temp.<br>(°C)<br>(°F) | Dissolved<br>Oxygen<br>(mg/L) | Redox<br>(mV) | Appearance |      |
|------|--|--------------------|-----------------------|-------------------------------|---------------|------------|------|
|      |  |                    |                       |                               |               | Color      | Odor |
| 7.12 | 19.3                                     | 1.6                | 15.28                 | 5.49                          | 163           | clear      | no   |

**STREAM MEASUREMENT DATA**

| Time | Stream<br>Depth | Stream<br>Width | Velocity<br>(ft/sec) |
|------|-----------------|-----------------|----------------------|
| -    | -               | -               | -                    |

**Constituents Sampled**  
8260B  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Container**  
40 ml vial  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Number**  
3  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Preservative**  
Hcl  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Remarks \_\_\_\_\_

Sampling Personnel J. O'Brien





**SURFACE WATER SAMPLING FORM**

Project No. SC000204.0017.00001

Date 12-16-20

Site Location : Brenntag Southeast, Charleston, South Carolina

Time start sampling 0740

Sample Loc. : SW-1

Time end sampling —

**FIELD SAMPLING DATA**

| pH          | Cond.<br>(µMhos)<br>(mS/cm) | Turbidity<br>(NTU) | Temp.<br>(°C)<br><u>PPT</u> | Dissolved<br>Oxygen<br>(mg/L) | Redox<br>(mV) | Appearance |           |
|-------------|-----------------------------|--------------------|-----------------------------|-------------------------------|---------------|------------|-----------|
|             |                             |                    |                             |                               |               | Color      | Odor      |
| <u>7.17</u> | <u>20.0</u>                 | <u>1.2</u>         | <u>15.34</u>                | <u>5.61</u>                   | <u>157</u>    | <u>0h</u>  | <u>no</u> |

**STREAM MEASUREMENT DATA**

| Time     | Stream<br>Depth | Stream<br>Width | Velocity<br>(ft/sec) |
|----------|-----------------|-----------------|----------------------|
| <u>—</u> | <u>—</u>        | <u>—</u>        | <u>—</u>             |

**Constituents Sampled**  
8260B  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Container**  
40 ml vial  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Number**  
3  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Preservative**  
Hcl  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Remarks \_\_\_\_\_

Sampling Personnel J. O'Brien



# Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-15

Date 12-16-20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Clear

Measuring Pt. Screen Casing Diameter (in.) 2  
 Description Setting (ft-bmp)

Well Material  PVC  
 SS

Static Water Level (ft-bmp) 4.14 Total Depth (ft-bmp): 15.80

Water Column/ Gallons in Well 11.66/1.9

MP Elevation 10 v 20 Pump Intake (ft-bmp): 10 v 20

Purge Method:  Low Flow

Sample Method Reverse Flow

Pump On/Off 0745 Volumes Purged 1.5 gal

Centrifugal  
 Submersible  
 Other Peristaltic

Sample Time: Label 0815 Replicate/ Code No. 0815  
 Start 0815  
 End           

Sampled by J. OSBORN

| Time | Minutes Elapsed | Rate (gpm)<br><small>(mL/min)</small> | Depth to Water (ft) | Gallons Purged | pH   | Cond. <del>(µmhos)</del><br>(mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C)<br><del>(°F)</del> | Redox (mV) | Appearance |      |
|------|-----------------|---------------------------------------|---------------------|----------------|------|-------------------------------------|-----------------|-------------------------|-------------------------------|------------|------------|------|
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            | Color      | Odor |
| 0755 | 10              | 0.05                                  | 4.14                | 0.5            | 7.30 | 0.347                               | 1.2             | 2.67                    | 19.05                         | 13         | Clear      | NO   |
| 0805 | 10              | 0.05                                  | 4.15                | 0.5            | 7.25 | 0.343                               | 1.1             | 2.62                    | 19.01                         | 13         | Clear      | NO   |
| 0815 | 10              | 0.05                                  | 4.16                | 0.5            | 7.24 | 0.342                               | 1.4             | 2.60                    | 19.02                         | 14         | Clear      | NO   |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |
|      |                 |                                       |                     |                |      |                                     |                 |                         |                               |            |            |      |

| Constituents Sampled | Container  | Number | Preservative |
|----------------------|------------|--------|--------------|
| 8260B                | 40 ml vial | 3      | Hcl          |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |

**Well Casing Volumes**

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

**Well Information**

Well Location: 0 Well Locked at Arrival:  Yes /  No

Condition of Well: good Well Locked at Departure:  Yes /  No

Well Completion:  Flush Mount /  Stick Up Key Number To Well:



Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-5

Date 12-16-20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Cloudy

Measuring Pt. Description Screen Setting (ft-bmp) Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-bmp) 2.40 Total Depth (ft-bmp): 22.75 Water Column/ Gallons in Well 14.35/2.3

MP Elevation 12.01 Pump Intake (ft-bmp): Purge Method: Low Flow

Sample Method Reverse Flow

Pump On/Off 0825 Volumes Purged 1.5 gal Centrifugal Submersible Other Peristaltic

Sample Time: Label 0835 Replicate/ Start 0835 Code No. End

Sampled by J. OBrien

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µmhos/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox (mV), Appearance (Color, Odor). Contains handwritten data for three samples.

Table with columns: Constituents Sampled, Container, Number, Preservative. Row 1: 8260B, 40 ml vial, 3, Hcl.

Well Casing Volumes table with columns: Gallons/Foot, 1" = 0.04, 1.25" = 0.06, 1.5" = 0.09, 2" = 0.16, 2.5" = 0.26, 3" = 0.37, 3.5" = 0.50, 4" = 0.65, 6" = 1.47

Well Information section with fields: Well Location: 0, Condition of Well: good, Well Completion: Flush Mount / Stick Up, Well Locked at Arrival: Yes, Well Locked at Departure: Yes, Key Number To Well:



Groundwater Sampling Form

Project No. SC000204.0017.00001

Well ID MW-7

Date

12/16/20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather

clear

Measuring Pt. Description

Screen Setting (ft-bmp)

Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-bmp)

5.05

Total Depth (ft-bmp): 21.95

Water Column/ Gallons in Well 16.9/2.7

MP Elevation 9.09

Pump Intake (ft-bmp): 16.95

Purge Method: Low Flow

Sample Method Reverse Flow

Pump On/Off

0905

Volumes Purged 1.5 gal

Centrifugal  
Submersible  
Other Peristaltic

Sample Time: Label Start End

0935  
0935

Replicate/ Code No.

Sampled by J. O'Brien

| Time | Minutes Elapsed | Rate (gpm) | Depth to Water (ft) | Gallons Purged | pH   | Cond. (µMhos) (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C) | Redox (mV) | Appearance |      |
|------|-----------------|------------|---------------------|----------------|------|-----------------------|-----------------|-------------------------|------------|------------|------------|------|
|      |                 |            |                     |                |      |                       |                 |                         |            |            | Color      | Odor |
| 0915 | 10              | 0.05       | 5.06                | 0.5            | 7.15 | 2.15                  | 1.1             | 0.0                     | 20.19      | -6         | clear      | no   |
| 0925 | 10              | 0.08       | 5.07                | 0.5            | 7.14 | 2.14                  | 1.0             | 0.0                     | 20.21      | -6         | clear      | no   |
| 0935 | 10              | 0.05       | 5.07                | 0.5            | 7.14 | 2.13                  | 1.3             | 0.0                     | 20.23      | -6         | clear      | no   |

| Constituents Sampled | Container  | Number | Preservative |
|----------------------|------------|--------|--------------|
| 8260B                | 40 ml vial | 3      | Hcl          |
|                      |            |        |              |
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Well Casing Volumes

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

Well Information

|   |                                    |
|---|------------------------------------|
| Well Location: 0                        | Well Locked at Arrival: Yes / No   |
| Condition of Well: good                 | Well Locked at Departure: Yes / No |
| Well Completion: Flush Mound / Stick Up | Key Number To Well:                |



Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-1

Date 12-16-20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather July

Measuring Pt. Screen Casing 2  
 Description Setting (ft-bmp) Diameter (in.)

Well Material  PVC  
 SS

Static Water Level (ft-bmp) 4.28 Total Depth (ft-bmp): 14.75  
 Water Column/ Gallons in Well 10.47/1.7

MP Elevation 11.74 Pump Intake (ft-bmp): 9.75 Purge Method: Low Flow

Sample Method Reverse Flow

Pump On/Off 0945 Volumes Purged 1.5 gal  
 Centrifugal   
 Submersible   
 Other Peristaltic

Sample Time: Label 1015 Replicate/ Code No. \_\_\_\_\_  
 Start 1015  
 End \_\_\_\_\_

Sampled by J. O'Brien

| Time | Minutes Elapsed | Rate (gpm)<br><small>(mL/min)</small> | Depth to Water (ft) | Gallons Purged | pH   | Cond. (µmhos)<br><small>(mS/cm)</small> | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C)<br><small>(°F)</small> | Redox (mV) | Appearance |      |
|------|-----------------|---------------------------------------|---------------------|----------------|------|---|-----------------|-------------------------|-----------------------------------|------------|------------|------|
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            | Color      | Odor |
| 0955 | 10              | 0.05                                  | 4.29                | 0.5            | 7.14 | 1.84                                    | 1.2             | 0.0                     | 23.59                             | -122       | clear      | no   |
| 1005 | 10              | 0.05                                  | 4.31                | 0.5            | 7.14 | 1.84                                    | 0.9             | 0.0                     | 23.21                             | -123       | clear      | no   |
| 1015 | 10              | 0.05                                  | 4.32                | 0.5            | 7.15 | 1.85                                    | 1.1             | 0.0                     | 23.23                             | -124       | clear      | no   |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
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|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
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|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
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|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |
|      |                 |                                       |                     |                |      |   |                 |                         |                                   |            |            |      |

| Constituents Sampled | Container  | Number | Preservative |
|----------------------|------------|--------|--------------|
| 8260B                | 40 ml vial | 3      | Hcl          |
|                      |            |        |              |
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**Well Casing Volumes**

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival:  Yes /  No

Condition of Well: 906d Well Locked at Departure:  Yes /  No

Well Completion: Flush Mount / Stick Up Key Number To Well: \_\_\_\_\_



# Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-8

Date 12/6/20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Cloud

Measuring Pt. Description Screen Setting (ft-bmp) \_\_\_\_\_ Casing Diameter (in.) 2

Well Material  PVC  SS

Static Water Level (ft-bmp) 6.34 Total Depth (ft-bmp): 12.91

Water Column/ Gallons in Well 6.57/1.1

MP Elevation 15.16 Pump Intake (ft-bmp): \_\_\_\_\_

Purge Method:  Low Flow

Sample Method Reverse Flow

Pump On/Off 1025 Volumes Purged 1.5 gal

Centrifugal

Sample Time: Label 1035 Replicate/Code No. \_\_\_\_\_

Submersible

Start 1035 End \_\_\_\_\_

Other  Peristaltic

Sampled by J. OSKIN

| Time | Minutes Elapsed | Rate (gpm) (mL/min) | Depth to Water (ft) | Gallons Purged | pH   | Cond. (µmhos) (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C) (°F) | Redox (mV) | Appearance |      |
|------|-----------------|---------------------|---------------------|----------------|------|-----------------------|-----------------|-------------------------|-----------------|------------|------------|------|
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            | Color      | Odor |
| 1035 | 10              | 0.05                | 6.37                | 0.5            | 6.52 | 0.688                 | 2.0             | 0.03                    | 23.42           | -38        | Clear      | NO   |
| 1045 | 10              | 0.05                | 6.39                | 0.5            | 6.51 | 0.687                 | 2.4             | 0.02                    | 23.43           | -38        | Clear      | NO   |
| 1055 | 10              | 0.05                | 6.39                | 0.5            | 6.51 | 0.686                 | 2.1             | 0.03                    | 23.48           | -37        | Clear      | NO   |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
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|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |

| Constituents Sampled | Container  | Number | Preservative |
|----------------------|------------|--------|--------------|
| 8260B                | 40 ml vial | 3      | Hcl          |
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**Well Casing Volumes**

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

**Well Information**

Well Location: 0 Well Locked at Arrival:  Yes /  No

Condition of Well: GOOD Well Locked at Departure:  Yes /  No

Well Completion: Flush Mount / Stick Up Key Number To Well: \_\_\_\_\_



Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-14

Date 12-16-20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Clear

Measuring Pt. Screen Casing 2  
 Description Setting (ft-bmp) Diameter (in.) 2

Well Material  PVC  
 SS

Static Water Level (ft-bmp) 6.15 Total Depth (ft-bmp): 14

Water Column/ Gallons in Well 7.85/13

MP Elevation 15.17 Pump Intake (ft-bmp): 10.0

Purge Method: Low Flow

Sample Method Reverse Flow

Pump On/Off 1150 Volumes Purged 1.5 gal

Centrifugal   
 Submersible   
 Other Peristaltic

Sample Time: Label 1220 Replicate/  
 Start 1220 Code No. \_\_\_\_\_  
 End \_\_\_\_\_

Sampled by J. O'Shea

| Time | Minutes Elapsed | Rate (gpm)<br>(ml/min) | Depth to Water (ft) | Gallons Purged | pH   | Cond. (µmhos)<br>(mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C)<br>(°F) | Redox (mV) | Appearance |      |
|------|-----------------|------------------------|---------------------|----------------|------|--------------------------|-----------------|-------------------------|--------------------|------------|------------|------|
|      |                 |                        |                     |                |      |                          |                 |                         |                    |            | Color      | Odor |
| 1200 | 10              | 0.05                   | 6.16                | 0.5            | 6.93 | 1.20                     | 7.3             | 2.03                    | 26.01              | -125       | Clear      | Yes  |
| 1210 | 10              | 0.05                   | 6.18                | 0.5            | 6.93 | 1.20                     | 7.5             | 2.01                    | 26.02              | -127       | Clear      | Yes  |
| 1220 | 10              | 0.05                   | 6.19                | 0.5            | 6.94 | 1.19                     | 7.2             | 2.00                    | 26.01              | -128       | Clear      | Yes  |
|      |                 |                        |                     |                |      |                          |                 |                         |                    |            |            |      |
|      |                 |                        |                     |                |      |                          |                 |                         |                    |            |            |      |
|      |                 |                        |                     |                |      |                          |                 |                         |                    |            |            |      |
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|      |                 |                        |                     |                |      |                          |                 |                         |                    |            |            |      |
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|      |                 |                        |                     |                |      |                          |                 |                         |                    |            |            |      |

| Constituents Sampled | Container  | Number | Preservative |
|----------------------|------------|--------|--------------|
| 8260B                | 40 ml vial | 3      | Hcl          |
|                      |            |        |              |
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**Well Casing Volumes**

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

**Well Information**

|   |   |
|---|---|
| Well Location: <u>0</u>                             | Well Locked at Arrival: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No   |
| Condition of Well: <u>good</u>                      | Well Locked at Departure: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No |
| Well Completion: <u>Flush Mount</u> <u>Stick Up</u> | Key Number To Well: _____   |



Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-6

Date 12-16-20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Cloud

Measuring Pt. Description Screen Setting (ft-bmp) Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-bmp) 6.48 Total Depth (ft-bmp): 8.08 Water Column/ Gallons in Well 1.6/0.3

MP Elevation 10.62 Pump Intake (ft-bmp): 7.03 Purge Method: Low Flow

Sample Method Reverse Flow

Pump On/Off 1230 Volumes Purged 0.75 gal Centrifugal Submersible Other Peristaltic

Sample Time: Label 1245 Replicate/ Code No. Start 1245 End

Sampled by J. O'Brien

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (mS/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox (mV), Appearance (Color, Odor). Contains handwritten data for three samples.

Table with columns: Constituents Sampled, Container, Number, Preservative. Row 1: 8260B, 40 ml vial, 3, Hcl.

Well Casing Volumes table with columns: Gallons/Foot, 1", 1.25", 1.5", 2", 2.5", 3", 3.5", 4", 6".

Well Information section with fields: Well Location: 0, Well Locked at Arrival: Yes, Condition of Well: good, Well Locked at Departure: Yes, Well Completion: Flush Mount / Stick Up, Key Number To Well.





# Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-13

Date 12/16/20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Clear

Measuring Pt. \_\_\_\_\_ Screen \_\_\_\_\_ Casing \_\_\_\_\_  
 Description \_\_\_\_\_ Setting (ft-bmp) \_\_\_\_\_ Diameter (in.) 2

Well Material  PVC  
 SS

Static Water Level (ft-bmp) 4.44 Total Depth (ft-bmp): 15.76 Water Column/ Gallons in Well 11.32/1.8

MP Elevation 6.96 Pump Intake (ft-bmp): 10.74 Purge Method:  Low Flow

Sample Method Reverse Flow

Pump On/Off 1255 Volumes Purged 1.5 gal Centrifugal \_\_\_\_\_  
 Other  Peristaltic

Sample Time: Label 1325 Replicate/ Code No. \_\_\_\_\_  
 Start 1325  
 End \_\_\_\_\_

Sampled by J. Johnson

| Time        | Minutes Elapsed | Rate (gpm)<br><small>(gal/min)</small> | Depth to Water (ft) | Gallons Purged | pH          | Cond. <del>(µmhos)</del><br>(mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C)<br><del>(°F)</del> | Redox (mV)  | Appearance   |           |
|-------------|-----------------|--|---------------------|----------------|-------------|-------------------------------------|-----------------|-------------------------|-------------------------------|-------------|--------------|-----------|
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             | Color        | Odor      |
| <u>1305</u> | <u>10</u>       | <u>2.05</u>                            | <u>4.44</u>         | <u>0.5</u>     | <u>7.28</u> | <u>1.87</u>                         | <u>2.1</u>      | <u>0.0</u>              | <u>22.13</u>                  | <u>-126</u> | <u>Clear</u> | <u>NO</u> |
| <u>1315</u> | <u>10</u>       | <u>0.05</u>                            | <u>4.44</u>         | <u>0.5</u>     | <u>7.27</u> | <u>1.87</u>                         | <u>1.6</u>      | <u>0.0</u>              | <u>22.18</u>                  | <u>-126</u> | <u>Clear</u> | <u>NO</u> |
| <u>1325</u> | <u>10</u>       | <u>2.05</u>                            | <u>4.45</u>         | <u>0.5</u>     | <u>7.26</u> | <u>1.87</u>                         | <u>1.4</u>      | <u>0.0</u>              | <u>22.20</u>                  | <u>-126</u> | <u>Clear</u> | <u>NO</u> |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
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|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
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|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |
|             |                 |  |                     |                |             |                                     |                 |                         |                               |             |              |           |

| Constituents Sampled | Container         | Number   | Preservative |
|----------------------|-------------------|----------|--------------|
| <u>8260B</u>         | <u>40 ml vial</u> | <u>3</u> | <u>Hcl</u>   |
|                      |                   |          |              |
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**Well Casing Volumes**

|              |                           |                          |                          |                          |           |
|--------------|---------------------------|--------------------------|--------------------------|--------------------------|-----------|
| Gallons/Foot | 1" = 0.04<br>1.25" = 0.06 | 1.5" = 0.09<br>2" = 0.16 | 2.5" = 0.26<br>3" = 0.37 | 3.5" = 0.50<br>4" = 0.65 | 6" = 1.47 |
|--------------|---------------------------|--------------------------|--------------------------|--------------------------|-----------|

**Well Information**

Well Location: 0 Well Locked at Arrival:  Yes /  No  
 Condition of Well: good Well Locked at Departure:  Yes /  No  
 Well Completion: Flush Mount / Stick Up Key Number To Well: \_\_\_\_\_



# Groundwater Sampling Form

Project No. SC000204.0017.00001 Well ID MW-2R

Date 12-16-20

Project Name/Location : Brenntag Southeast, Charleston, South Carolina

Weather Cloudy

Measuring Pt. Description \_\_\_\_\_ Screen Setting (ft-bmp) \_\_\_\_\_ Casing Diameter (in.) 2

Well Material  PVC  SS

Static Water Level (ft-bmp) \_\_\_\_\_ Total Depth (ft-bmp): 20.59 Water Column/ Gallons in Well 14.77/2.4

MP Elevation 16.5 Pump Intake (ft-bmp): 15.59 Purge Method:  Low Flow

Sample Method Reverse Flow

Pump On/Off 1110 Volumes Purged 1.59 gal  Centrifugal  Submersible  Other Peristaltic

Sample Time: Label 1140 Replicate/ Code No. \_\_\_\_\_ Start 1140 End \_\_\_\_\_

Sampled by J. OSA

| Time | Minutes Elapsed | Rate (gpm) (ml/min) | Depth to Water (ft) | Gallons Purged | pH   | Cond. (µmhos) (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temp. (°C) (°F) | Redox (mV) | Appearance |      |
|------|-----------------|---------------------|---------------------|----------------|------|-----------------------|-----------------|-------------------------|-----------------|------------|------------|------|
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            | Color      | Odor |
| 1120 | 10              | 0.05                | 5.83                | 0.5            | 7.22 | 0.524                 | 1.1             | 0.26                    | 23.11           | -2         | clear      | no   |
| 1130 | 10              | 0.05                | 5.85                | 0.5            | 7.23 | 0.521                 | 1.5             | 0.25                    | 23.17           | -5         | clear      | no   |
| 1140 | 10              | 0.05                | 5.87                | 0.5            | 7.25 | 0.521                 | 1.0             | 0.24                    | 23.18           | -5         | clear      | no   |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |
|      |                 |                     |                     |                |      |                       |                 |                         |                 |            |            |      |

| Constituents Sampled | Container  | Number | Preservative |
|----------------------|------------|--------|--------------|
| 8260B                | 40 ml vial | 3      | Hcl          |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |
|                      |            |        |              |

**Well Casing Volumes**

|              |              |             |             |             |           |
|--------------|--------------|-------------|-------------|-------------|-----------|
| Gallons/Foot | 1" = 0.04    | 1.5" = 0.09 | 2.5" = 0.26 | 3.5" = 0.50 | 6" = 1.47 |
|              | 1.25" = 0.06 | 2" = 0.16   | 3" = 0.37   | 4" = 0.65   |           |

**Well Information**

Well Location: 0 Well Locked at Arrival:  Yes /  No

Condition of Well: good Well Locked at Departure:  Yes /  No

Well Completion:  Flush Mount /  Stick Up Key Number To Well: \_\_\_\_\_

# APPENDIX C

Second Semi-Annual Groundwater Analytical Laboratory Report



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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**ARCADIS Geraghty & Miller**

**Brenntag; Charleston, SC**

**SC000204.0011.00001**

**SGS Job Number: FA81911**

**Sampling Date: 12/16/20**



### Report to:

**ARCADIS Geraghty & Miller**  
**1450 Greene St Suite 220**  
**Augusta, GA 30901**  
**charles.lawson@arcadis.com; Edward.Hirshenson@arcadis.com**  
  
**ATTN: Charles Lawson**

**Total number of pages in report: 52**



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

**Norm Farmer**  
**Technical Director**

**Client Service contact: Evita Martinez 407-425-6700**

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FLO02), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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1

2

3

4

5



## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA81911

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

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

|            |          |       |    |          |    |               |       |
|------------|----------|-------|----|----------|----|---------------|-------|
| FA81911-1  | 12/16/20 | 07:20 | JO | 12/18/20 | AQ | Surface Water | SW-3  |
| FA81911-2  | 12/16/20 | 07:30 | JO | 12/18/20 | AQ | Surface Water | SW-2  |
| FA81911-3  | 12/16/20 | 07:40 | JO | 12/18/20 | AQ | Surface Water | SW-1  |
| FA81911-4  | 12/16/20 | 08:15 | JO | 12/18/20 | AQ | Ground Water  | MW-15 |
| FA81911-5  | 12/16/20 | 08:55 | JO | 12/18/20 | AQ | Ground Water  | MW-5  |
| FA81911-6  | 12/16/20 | 09:35 | JO | 12/18/20 | AQ | Ground Water  | MW-7  |
| FA81911-7  | 12/16/20 | 10:15 | JO | 12/18/20 | AQ | Ground Water  | MW-1  |
| FA81911-8  | 12/16/20 | 10:55 | JO | 12/18/20 | AQ | Ground Water  | MW-8  |
| FA81911-9  | 12/16/20 | 11:40 | JO | 12/18/20 | AQ | Ground Water  | MW-2R |
| FA81911-10 | 12/16/20 | 12:20 | JO | 12/18/20 | AQ | Ground Water  | MW-14 |
| FA81911-11 | 12/16/20 | 12:45 | JO | 12/18/20 | AQ | Ground Water  | MW-6  |
| FA81911-12 | 12/16/20 | 13:25 | JO | 12/18/20 | AQ | Ground Water  | MW-13 |



## Sample Summary

(continued)

ARCADIS Geraghty & Miller

Job No: FA81911

Brenntag; Charleston, SC  
Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type                | Client Sample ID |
|---------------|----------------|---------|----------|-------------|---------------------|------------------|
| FA81911-13    | 12/16/20       | 00:00   | JO       | 12/18/20    | AQ Trip Blank Water | TRIP BLANK       |

## Summary of Hits

**Job Number:** FA81911  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 12/16/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA81911-1 SW-3**

No hits reported in this sample.

**FA81911-2 SW-2**

No hits reported in this sample.

**FA81911-3 SW-1**

No hits reported in this sample.

**FA81911-4 MW-15**

No hits reported in this sample.

**FA81911-5 MW-5**

No hits reported in this sample.

**FA81911-6 MW-7**

|                          |       |     |     |      |             |
|--------------------------|-------|-----|-----|------|-------------|
| 1,1-Dichloroethane       | 234 J | 500 | 170 | ug/l | SW846 8260D |
| 1,1-Dichloroethylene     | 318 J | 500 | 160 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene | 48600 | 500 | 140 | ug/l | SW846 8260D |
| Trichloroethylene        | 6350  | 500 | 170 | ug/l | SW846 8260D |
| Vinyl Chloride           | 1910  | 500 | 200 | ug/l | SW846 8260D |

**FA81911-7 MW-1**

|                          |        |     |      |      |             |
|--------------------------|--------|-----|------|------|-------------|
| Benzene                  | 4.1    | 1.0 | 0.31 | ug/l | SW846 8260D |
| Chlorobenzene            | 0.45 J | 1.0 | 0.20 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene      | 7.7    | 1.0 | 0.32 | ug/l | SW846 8260D |
| 1,1-Dichloroethane       | 0.70 J | 1.0 | 0.34 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene | 15.1   | 1.0 | 0.28 | ug/l | SW846 8260D |
| Methylcyclohexane        | 1.5    | 1.0 | 0.44 | ug/l | SW846 8260D |
| Vinyl Chloride           | 39.2   | 1.0 | 0.41 | ug/l | SW846 8260D |

**FA81911-8 MW-8**

|                     |        |     |      |      |             |
|---------------------|--------|-----|------|------|-------------|
| Benzene             | 0.32 J | 1.0 | 0.31 | ug/l | SW846 8260D |
| Chlorobenzene       | 5.6    | 1.0 | 0.20 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene | 4.6    | 1.0 | 0.32 | ug/l | SW846 8260D |
| 1,3-Dichlorobenzene | 0.48 J | 1.0 | 0.22 | ug/l | SW846 8260D |
| 1,4-Dichlorobenzene | 2.0    | 1.0 | 0.26 | ug/l | SW846 8260D |



## Summary of Hits

**Job Number:** FA81911  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 12/16/20

| Lab Sample ID     | Client Sample ID | Result/<br>Qual             | RL     | MDL  | Units | Method |             |
|-------------------|------------------|-----------------------------|--------|------|-------|--------|-------------|
|                   |                  | 1,1-Dichloroethane          | 0.50 J | 1.0  | 0.34  | ug/l   | SW846 8260D |
|                   |                  | 1,1-Dichloroethylene        | 0.96 J | 1.0  | 0.32  | ug/l   | SW846 8260D |
|                   |                  | cis-1,2-Dichloroethylene    | 52.0   | 1.0  | 0.28  | ug/l   | SW846 8260D |
|                   |                  | trans-1,2-Dichloroethylene  | 0.48 J | 1.0  | 0.22  | ug/l   | SW846 8260D |
|                   |                  | Methyl Tert Butyl Ether     | 0.58 J | 1.0  | 0.23  | ug/l   | SW846 8260D |
|                   |                  | Tetrachloroethylene         | 0.35 J | 1.0  | 0.22  | ug/l   | SW846 8260D |
|                   |                  | Trichloroethylene           | 3.6    | 1.0  | 0.35  | ug/l   | SW846 8260D |
|                   |                  | Vinyl Chloride              | 14.2   | 1.0  | 0.41  | ug/l   | SW846 8260D |
| <b>FA81911-9</b>  |                  | <b>MW-2R</b>                |        |      |       |        |             |
|                   |                  | cis-1,2-Dichloroethylene    | 0.68 J | 1.0  | 0.28  | ug/l   | SW846 8260D |
|                   |                  | Trichloroethylene           | 0.75 J | 1.0  | 0.35  | ug/l   | SW846 8260D |
| <b>FA81911-10</b> |                  | <b>MW-14</b>                |        |      |       |        |             |
|                   |                  | Benzene                     | 490 J  | 500  | 160   | ug/l   | SW846 8260D |
|                   |                  | 2-Butanone (MEK)            | 1010 J | 2500 | 1000  | ug/l   | SW846 8260D |
|                   |                  | 1,2-Dichlorobenzene         | 568    | 500  | 160   | ug/l   | SW846 8260D |
|                   |                  | cis-1,2-Dichloroethylene    | 4820   | 500  | 140   | ug/l   | SW846 8260D |
|                   |                  | Ethylbenzene                | 6270   | 500  | 180   | ug/l   | SW846 8260D |
|                   |                  | 4-Methyl-2-pentanone (MIBK) | 573 J  | 2500 | 500   | ug/l   | SW846 8260D |
|                   |                  | Toluene <sup>a</sup>        | 61800  | 1000 | 300   | ug/l   | SW846 8260D |
|                   |                  | 1,1,1-Trichloroethane       | 226 J  | 500  | 120   | ug/l   | SW846 8260D |
|                   |                  | Xylene (total)              | 58500  | 1500 | 360   | ug/l   | SW846 8260D |
| <b>FA81911-11</b> |                  | <b>MW-6</b>                 |        |      |       |        |             |
|                   |                  | Acetone <sup>b</sup>        | 37.7   | 25   | 10    | ug/l   | SW846 8260D |
|                   |                  | Benzene                     | 0.63 J | 1.0  | 0.31  | ug/l   | SW846 8260D |
|                   |                  | Chlorobenzene               | 8.1    | 1.0  | 0.20  | ug/l   | SW846 8260D |
|                   |                  | Toluene                     | 0.44 J | 1.0  | 0.30  | ug/l   | SW846 8260D |
| <b>FA81911-12</b> |                  | <b>MW-13</b>                |        |      |       |        |             |
|                   |                  | cis-1,2-Dichloroethylene    | 24100  | 250  | 69    | ug/l   | SW846 8260D |
|                   |                  | Trichloroethylene           | 1160   | 250  | 86    | ug/l   | SW846 8260D |
|                   |                  | Vinyl Chloride              | 1840   | 250  | 100   | ug/l   | SW846 8260D |
| <b>FA81911-13</b> |                  | <b>TRIP BLANK</b>           |        |      |       |        |             |
|                   |                  | Methylene Chloride          | 13.7   | 5.0  | 2.0   | ug/l   | SW846 8260D |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.  
 (b) Associated CCV outside of control limits high. Confirmed by reanalysis.

Sample Results

---

Report of Analysis

---

### Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> SW-3            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-1          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Surface Water        |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145963.D | 1  | 12/30/20 14:05 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

#### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> SW-3            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-1          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Surface Water        |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 83-118% |

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> SW-2            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-2          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Surface Water        |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145964.D | 1  | 12/30/20 14:31 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

**VOA TCL 4.2 List**

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> SW-2            |                                |
| <b>Lab Sample ID:</b> FA81911-2          | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Surface Water        | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

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

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

### Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> SW-1            |  |                                |
| <b>Lab Sample ID:</b> FA81911-3          |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Surface Water        |  | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145965.D | 1  | 12/30/20 14:56 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

**VOA TCL 4.2 List**

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> SW-1            |                                |
| <b>Lab Sample ID:</b> FA81911-3          | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Surface Water        | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-15           |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-4          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145966.D | 1  | 12/30/20 15:22 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-15           |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-4          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-5            |  |                                |
| <b>Lab Sample ID:</b> FA81911-5          |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145967.D | 1  | 12/30/20 15:48 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> MW-5            |                                |
| <b>Lab Sample ID:</b> FA81911-5          | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 83-118% |

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-7            |  |                                |
| <b>Lab Sample ID:</b> FA81911-6          |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145968.D | 500 | 12/30/20 16:13 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |     |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL    | MDL  | Units | Q |
|------------|-----------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 500   | 160  | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 2500  | 1000 | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | 234    | 500   | 170  | ug/l  | J |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | 318    | 500   | 160  | ug/l  | J |
| 156-59-2   | cis-1,2-Dichloroethylene    | 48600  | 500   | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 500   | 110  | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 500   | 110  | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-7            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-6          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL   | MDL  | Units | Q |
|-----------|-----------------------------|--------|------|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 1000 | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 500  | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 2500 | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 2500 | 500  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 500  | 110  | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 500  | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 500  | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 500  | 110  | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 500  | 150  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 1000 | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 500  | 120  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 500  | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene           | 6350   | 500  | 170  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 1000 | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 1910   | 500  | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 1500 | 360  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-1            |  |                                |
| <b>Lab Sample ID:</b> FA81911-7          |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145969.D | 1  | 12/30/20 16:39 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | 4.1    | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 0.45   | 1.0 | 0.20 | ug/l  | J |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 7.7    | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | 0.70   | 1.0 | 0.34 | ug/l  | J |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 15.1   | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-1                     | <b>Date Sampled:</b>   | 12/16/20 |
| <b>Lab Sample ID:</b>    | FA81911-7                | <b>Date Received:</b>  | 12/18/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | 1.5    | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 39.2   | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 83-118% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-8                     | <b>Date Sampled:</b>   | 12/16/20 |
| <b>Lab Sample ID:</b>    | FA81911-8                | <b>Date Received:</b>  | 12/18/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145970.D | 1  | 12/30/20 17:04 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | 0.32   | 1.0 | 0.31 | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 5.6    | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 4.6    | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | 0.48   | 1.0 | 0.22 | ug/l  | J |
| 106-46-7   | 1,4-Dichlorobenzene         | 2.0    | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | 0.50   | 1.0 | 0.34 | ug/l  | J |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | 0.96   | 1.0 | 0.32 | ug/l  | J |
| 156-59-2   | cis-1,2-Dichloroethylene    | 52.0   | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 0.48   | 1.0 | 0.22 | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-8            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-8          |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | 0.58   | 1.0 | 0.23 | ug/l  | J |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | 0.35   | 1.0 | 0.22 | ug/l  | J |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | 3.6    | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 14.2   | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 83-118% |

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-2R           |  |                                |
| <b>Lab Sample ID:</b> FA81911-9          |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | C0145971.D | 1  | 12/30/20 17:29 | SO | n/a       | n/a        | VC5863           |
| Run #2 |            |    |                |    |           |            |                  |

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

**VOA TCL 4.2 List**

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 0.68   | 1.0 | 0.28 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-2R                    | <b>Date Sampled:</b>   | 12/16/20 |
| <b>Lab Sample ID:</b>    | FA81911-9                | <b>Date Received:</b>  | 12/18/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | 0.75   | 1.0 | 0.35 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-14           |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-10         |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|------|----------------|----|-----------|------------|------------------|
| Run #1              | C0145972.D | 500  | 12/30/20 17:54 | SO | n/a       | n/a        | VC5863           |
| Run #2 <sup>a</sup> | C0146001.D | 1000 | 12/31/20 17:24 | SO | n/a       | n/a        | VC5864           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL    | MDL  | Units | Q |
|------------|-----------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                     | 490    | 500   | 160  | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | 1010   | 2500  | 1000 | ug/l  | J |
| 75-15-0    | Carbon Disulfide            | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 568    | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 500   | 170  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 500   | 160  | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 4820   | 500   | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 500   | 110  | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 6270   | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 500   | 110  | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-14                    | <b>Date Sampled:</b>   | 12/16/20 |
| <b>Lab Sample ID:</b>    | FA81911-10               | <b>Date Received:</b>  | 12/18/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result             | RL   | MDL  | Units | Q |
|-----------|-----------------------------|--------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND                 | 1000 | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND                 | 500  | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND                 | 2500 | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | 573                | 2500 | 500  | ug/l  | J |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND                 | 500  | 110  | ug/l  |   |
| 100-42-5  | Styrene                     | ND                 | 500  | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND                 | 500  | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND                 | 500  | 110  | ug/l  |   |
| 108-88-3  | Toluene                     | 61800 <sup>b</sup> | 1000 | 300  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND                 | 1000 | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | 226                | 500  | 120  | ug/l  | J |
| 79-00-5   | 1,1,2-Trichloroethane       | ND                 | 500  | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND                 | 500  | 170  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND                 | 1000 | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND                 | 500  | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)              | 58500              | 1500 | 360  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 101%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106%   | 107%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%    | 96%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   | 99%    | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

(b) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-6            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-11         |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | 5E26354.D  | 1  | 12/30/20 13:05 | SO | n/a       | n/a        | V5E1214          |
| Run #2 <sup>a</sup> | C0145986.D | 1  | 12/31/20 11:00 | SO | n/a       | n/a        | VC5864           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | 37.7   | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | 0.63   | 1.0 | 0.31 | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 8.1    | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-6            |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-11         |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | 0.44   | 1.0 | 0.30 | ug/l  | J |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    | 101%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   | 107%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 111%   | 97%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 117%   | 101%   | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

(b) Associated CCV outside of control limits high. Confirmed by reanalysis.

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

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-13           |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-12         |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1              | 5E26355.D  | 250 | 12/30/20 13:28 | SO | n/a       | n/a        | V5E1214          |
| Run #2 <sup>a</sup> | C0145987.D | 1   | 12/31/20 11:26 | SO | n/a       | n/a        | VC5864           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 6300 | 2500 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 250  | 78   | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 250  | 61   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 250  | 100  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 1300 | 500  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 500  | 130  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 250  | 89   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 250  | 50   | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 500  | 170  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 250  | 75   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 250  | 98   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 250  | 69   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 1300 | 260  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 500  | 69   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 500  | 130  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 250  | 81   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 250  | 54   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 250  | 64   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 250  | 85   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 250  | 78   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 250  | 81   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 24100  | 250  | 69   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 250  | 55   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 250  | 110  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 250  | 73   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 250  | 54   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 250  | 89   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 250  | 120  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 2500 | 500  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 250  | 55   | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 5000 | 1300 | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 1300 | 500  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> MW-13           |  | <b>Date Sampled:</b> 12/16/20  |
| <b>Lab Sample ID:</b> FA81911-12         |  | <b>Date Received:</b> 12/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL   | MDL | Units | Q |
|-----------|-----------------------------|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 500  | 130 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 250  | 110 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 1300 | 500 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 1300 | 250 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 250  | 57  | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 250  | 56  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 250  | 75  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 250  | 54  | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 250  | 75  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 500  | 130 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 250  | 62  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 250  | 120 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | 1160   | 250  | 86  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 500  | 130 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 1840   | 250  | 100 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 750  | 180 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1            | Run# 2 | Limits  |
|------------|-----------------------|-------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%               | 97%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%              | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 113% <sup>c</sup> | 97%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 119% <sup>c</sup> | 98%    | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values. Confirmation run for surrogate recoveries.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Outside control limits high.

---

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> TRIP BLANK      |                                |
| <b>Lab Sample ID:</b> FA81911-13         | <b>Date Sampled:</b> 12/16/20  |
| <b>Matrix:</b> AQ - Trip Blank Water     | <b>Date Received:</b> 12/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | 5E26353.D  | 1  | 12/30/20 12:42 | SO | n/a       | n/a        | V5E1214          |
| Run #2 <sup>a</sup> | C0145985.D | 1  | 12/31/20 10:34 | SO | n/a       | n/a        | VC5864           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | TRIP BLANK               | <b>Date Sampled:</b>   | 12/16/20 |
| <b>Lab Sample ID:</b>    | FA81911-13               | <b>Date Received:</b>  | 12/18/20 |
| <b>Matrix:</b>           | AQ - Trip Blank Water    | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | 13.7   | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 101%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 112%   | 96%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 118%   | 99%    | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values. Confirmation run.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

---

Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody

FA81911

Client & Company Name: **Charles Lawson**  
 Telephone: **706 8284421**  
 Address: **1450 GREENE ST**  
**Suite 220**  
 City: **Augusta GA 30901**

Preservative: **B**  
 Filtered (✓):  
 # of Containers: **3**  
 Container Information: **1**

- Keys**
- Preservation Key:**  
 A. H<sub>2</sub>SO<sub>4</sub>  
 B. HCL  
 C. HNO<sub>3</sub>  
 D. NaOH  
 E. None  
 F. Other: \_\_\_\_\_  
 G. Other: \_\_\_\_\_  
 H. Other: \_\_\_\_\_
- Container Information Key:**  
 1. 40 ml Vial  
 2. 1 L Amber  
 3. 250 ml Plastic  
 4. 500 ml Plastic  
 5. Encore  
 6. 2 oz. Glass  
 7. 4 oz. Glass  
 8. 8 oz. Glass  
 9. Other: \_\_\_\_\_  
 10. Other: \_\_\_\_\_
- Matrix Key:**  
 SO - Soil SE - Sediment NL - NAPL/Oil  
 W - Water SL - Sludge SW - Sample Wipe  
 T - Tissue A - Air Other: \_\_\_\_\_

Project Name/Location (City, State): **RiverStAG, Charleston**  
 Project #: **20049825**  
 Sampler's Printed Name: **J. O'Brien**  
 Sampler's Signature: \_\_\_\_\_

**PARAMETER ANALYSIS & METHOD**

| Sample ID     | Collection |      | Type (✓) |      | Matrix |
|---------------|------------|------|----------|------|--------|
|               | Date       | Time | Comp     | Grab |        |
| 1 SW-3        | 12-16      | 0720 | ✓        | W    | 3      |
| 2 SW-2        | 12-16      | 0730 | ✓        | W    | 3      |
| 3 SW-1        | 12-16      | 0740 | ✓        | W    | 3      |
| 4 MW-15       | 12-16      | 0815 | ✓        | W    | 3      |
| 5 MW-5        | 12-16      | 0855 | ✓        | W    | 3      |
| 6 MW-7        | 12-16      | 0935 | ✓        | W    | 3      |
| 7 MW-1        | 12-16      | 1015 | ✓        | W    | 3      |
| 8 MW-8        | 12-16      | 1055 | ✓        | W    | 3      |
| 9 MW-2R       | 12-16      | 1140 | ✓        | W    | 3      |
| 10 MW-14      | 12-16      | 1220 | ✓        | W    | 3      |
| 11 MW-6       | 12-16      | 1245 | ✓        | W    | 3      |
| 12 MW-13      | 12-16      | 1325 | ✓        | W    | 3      |
| 13 TRIP BLANK |            |      |          |      |        |

**REMARKS**

Special Instructions/Comments: **Temp 1.2**  Special QA/QC Instructions (✓): **Initial Assess main N8 label Verification: B6**

| Laboratory Information and Receipt |  | Relinquished By                                     | Received By                                 | Relinquished By                             | Laboratory Received By                                 |
|------------------------------------|--|---|---|---|--|
| Lab Name: <b>SGS</b>               | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name: <b>J. O'Brien</b><br>Signature: _____ | Printed Name: <b>FX</b><br>Signature: _____ | Printed Name: <b>FX</b><br>Signature: _____ | Printed Name: <b>William Spear</b><br>Signature: _____ |
| Sample Turnaround Requirements:    | Sample Receipt:  | Firm: <b>ARCADIS</b>                                | Firm/Courier:                               | Firm/Courier:                               | Firm:  |
| Shipping Tracking #:               | Condition/Cooler Temp: _____   | Date/Time: <b>12-17-20/1700</b>                     | Date/Time:                                  | Date/Time:                                  | Date/Time: <b>12-18-20/1030</b>                        |

20730826 CoC AR Form 08-27-2015 Distribution: **WHITE - Laboratory returns with results** **YELLOW - Lab copy** **PINK - Retained by Arcadis**

## SGS Sample Receipt Summary

Job Number: FA81911

Client: CHARLES LAWSON

Project: BRENNTAG; CHARELSTON, SC

Date / Time Received: 12/18/2020 10:30:00 AM

Delivery Method: FED EX

Airbill #'s: 923153820900

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.2);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Trip Blank Information**

Y or N

N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S      N/A
- 3. Type Of TB Received

**Sample Information**

Y or N

N/A

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

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: NATHANS

Date: 12/18/2020 10:30:00

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA81911: Chain of Custody

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4.1  
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## MS Volatiles

### QC Data Summaries

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Includes the following where applicable:

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



## Method Blank Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5863-MB | C0145954.D | 1  | 12/30/20 | SO | n/a       | n/a        | VC5863           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-1, FA81911-2, FA81911-3, FA81911-4, FA81911-5, FA81911-6, FA81911-7, FA81911-8, FA81911-9, FA81911-10

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | 0.59   | 2.0 | 0.50 | ug/l  | J |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

5.1.1  
5

## Method Blank Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5863-MB | C0145954.D | 1  | 12/30/20 | SO | n/a       | n/a        | VC5863           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-1, FA81911-2, FA81911-3, FA81911-4, FA81911-5, FA81911-6, FA81911-7, FA81911-8, FA81911-9, FA81911-10

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   | 83-118% |

5.1.1  
5

## Method Blank Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1214-MB | 5E26352.D | 1  | 12/30/20 | SO | n/a       | n/a        | V5E1214          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-11, FA81911-12, FA81911-13

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1214-MB | 5E26352.D | 1  | 12/30/20 | SO | n/a       | n/a        | V5E1214          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-11, FA81911-12, FA81911-13

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 98% 83-118%  |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% 79-125% |
| 2037-26-5  | Toluene-D8            | 112% 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 116% 83-118% |

5.1.2  
5

## Method Blank Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5864-MB | C0145984.D | 1  | 12/31/20 | SO | n/a       | n/a        | VC5864           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-10, FA81911-11

| CAS No.  | Compound | Result | RL  | MDL  | Units | Q |
|----------|----------|--------|-----|------|-------|---|
| 108-88-3 | Toluene  | ND     | 1.0 | 0.30 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   | 83-118% |

# Blank Spike Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5863-BS | C0145951.D | 1  | 12/30/20 | SO | n/a       | n/a        | VC5863           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-1, FA81911-2, FA81911-3, FA81911-4, FA81911-5, FA81911-6, FA81911-7, FA81911-8, FA81911-9, FA81911-10

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 99.1     | 79    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 21.2     | 85    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 22.6     | 90    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 22.4     | 90    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 96.6     | 77    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 19.7     | 79    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 23.6     | 94    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 21.0     | 84    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 20.5     | 82    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 22.4     | 90    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 21.4     | 86    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 22.2     | 89    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 18.2     | 73    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 19.8     | 79    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 22.6     | 90    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 21.0     | 84    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 21.6     | 86    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 20.9     | 84    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 22.4     | 90    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 21.9     | 88    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 22.9     | 92    | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 21.6     | 86    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 22.0     | 88    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 20.8     | 83    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 20.1     | 80    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 21.5     | 86    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 21.6     | 86    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 20.0     | 80    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 98.2     | 79    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 22.0     | 88    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 95.4     | 76    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 22.2     | 89    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 25.1     | 100   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 23.8     | 95    | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 18.6     | 74    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 104      | 83    | 66-122 |

\* = Outside of Control Limits.

5.2.1  
5

# Blank Spike Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5863-BS | C0145951.D | 1  | 12/30/20 | SO | n/a       | n/a        | VC5863           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-1, FA81911-2, FA81911-3, FA81911-4, FA81911-5, FA81911-6, FA81911-7, FA81911-8, FA81911-9, FA81911-10

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 19.2     | 77    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 21.5     | 86    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 19.1     | 76    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 22.6     | 90    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 20.7     | 83    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 21.1     | 84    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 23.2     | 93    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 20.5     | 82    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 20.7     | 83    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 28.5     | 114   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 23.3     | 93    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 65.0     | 87    | 80-126 |

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

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1214-BS | 5E26349.D | 1  | 12/30/20 | SO | n/a       | n/a        | V5E1214          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-11, FA81911-12, FA81911-13

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 142      | 114   | 50-147 |
| 71-43-2    | Benzene                     | 25         | 21.9     | 88    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 22.7     | 91    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 23.2     | 93    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 130      | 104   | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 20.4     | 82    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 24.5     | 98    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 20.6     | 82    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 24.8     | 99    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 22.4     | 90    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 23.4     | 94    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 23.2     | 93    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 24.5     | 98    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 21.9     | 88    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 22.3     | 89    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 21.7     | 87    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 22.1     | 88    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 20.2     | 81    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 23.6     | 94    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 21.2     | 85    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 24.5     | 98    | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 22.8     | 91    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 23.5     | 94    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 22.5     | 90    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 20.9     | 84    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 23.1     | 92    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 21.5     | 86    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 21.5     | 86    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 125      | 100   | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 22.7     | 91    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 126      | 101   | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 24.0     | 96    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 23.0     | 92    | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 25.0     | 100   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 21.4     | 86    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 126      | 101   | 66-122 |

\* = Outside of Control Limits.



# Blank Spike Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1214-BS | 5E26349.D | 1  | 12/30/20 | SO | n/a       | n/a        | V5E1214          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-11, FA81911-12, FA81911-13

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 22.9     | 92    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 21.7     | 87    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 22.4     | 90    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 22.1     | 88    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 21.0     | 84    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 23.7     | 95    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 23.5     | 94    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 21.3     | 85    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 21.4     | 86    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 26.5     | 106   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 24.5     | 98    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 64.8     | 86    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 79-125% |
| 2037-26-5  | Toluene-D8            | 102% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 105% | 83-118% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5864-BS | C0145981.D | 1  | 12/31/20 | SO | n/a       | n/a        | VC5864           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-10, FA81911-11

| CAS No.  | Compound | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|----------|----------|---------------|-------------|----------|--------|
| 108-88-3 | Toluene  | 25            | 20.4        | 82       | 80-120 |

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

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|-----------|----|----------|----|-----------|------------|------------------|
| JD18033-11MS            | 5E26363.D | 50 | 12/30/20 | SO | n/a       | n/a        | V5E1214          |
| JD18033-11MSD           | 5E26364.D | 50 | 12/30/20 | SO | n/a       | n/a        | V5E1214          |
| JD18033-11 <sup>a</sup> | 5E26365.D | 50 | 12/30/20 | SO | n/a       | n/a        | V5E1214          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-11, FA81911-12, FA81911-13

| CAS No.    | Compound                    | JD18033-11<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|--------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                 | 6250               | 7250       | 116     | 6250          | 7470        | 120      | 3   | 50-147/21         |
| 71-43-2    | Benzene                     | ND                 | 1250               | 1240       | 99      | 1250          | 1220        | 98       | 2   | 81-122/14         |
| 75-27-4    | Bromodichloromethane        | ND                 | 1250               | 1270       | 102     | 1250          | 1270        | 102      | 0   | 79-123/19         |
| 75-25-2    | Bromoform                   | ND                 | 1250               | 1170       | 94      | 1250          | 1160        | 93       | 1   | 66-123/21         |
| 78-93-3    | 2-Butanone (MEK)            | ND                 | 6250               | 7020       | 112     | 6250          | 7210        | 115      | 3   | 56-143/18         |
| 75-15-0    | Carbon Disulfide            | ND                 | 1250               | 1190       | 95      | 1250          | 1150        | 92       | 3   | 66-148/23         |
| 56-23-5    | Carbon Tetrachloride        | ND                 | 1250               | 1290       | 103     | 1250          | 1280        | 102      | 1   | 76-136/23         |
| 108-90-7   | Chlorobenzene               | ND                 | 1250               | 1130       | 90      | 1250          | 1110        | 89       | 2   | 82-124/14         |
| 75-00-3    | Chloroethane                | ND                 | 1250               | 1450       | 116     | 1250          | 1420        | 114      | 2   | 62-144/20         |
| 67-66-3    | Chloroform                  | ND                 | 1250               | 1260       | 101     | 1250          | 1240        | 99       | 2   | 80-124/15         |
| 110-82-7   | Cyclohexane                 | ND                 | 1250               | 1310       | 105     | 1250          | 1290        | 103      | 2   | 73-138/18         |
| 124-48-1   | Dibromochloromethane        | ND                 | 1250               | 1210       | 97      | 1250          | 1190        | 95       | 2   | 78-122/19         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                 | 1250               | 1240       | 99      | 1250          | 1290        | 103      | 4   | 64-123/18         |
| 106-93-4   | 1,2-Dibromoethane           | ND                 | 1250               | 1140       | 91      | 1250          | 1140        | 91       | 0   | 75-120/13         |
| 75-71-8    | Dichlorodifluoromethane     | ND                 | 1250               | 1180       | 94      | 1250          | 1160        | 93       | 2   | 42-167/19         |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                 | 1250               | 1150       | 92      | 1250          | 1150        | 92       | 0   | 82-124/14         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                 | 1250               | 1180       | 94      | 1250          | 1190        | 95       | 1   | 84-125/14         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                 | 1250               | 1090       | 87      | 1250          | 1090        | 87       | 0   | 78-120/15         |
| 75-34-3    | 1,1-Dichloroethane          | ND                 | 1250               | 1350       | 108     | 1250          | 1320        | 106      | 2   | 81-122/15         |
| 107-06-2   | 1,2-Dichloroethane          | ND                 | 1250               | 1180       | 94      | 1250          | 1160        | 93       | 2   | 75-125/14         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                 | 1250               | 1320       | 106     | 1250          | 1330        | 106      | 1   | 78-137/18         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                 | 1250               | 1260       | 101     | 1250          | 1260        | 101      | 0   | 78-120/15         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                 | 1250               | 1320       | 106     | 1250          | 1300        | 104      | 2   | 76-127/17         |
| 78-87-5    | 1,2-Dichloropropane         | ND                 | 1250               | 1250       | 100     | 1250          | 1240        | 99       | 1   | 76-124/14         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                 | 1250               | 1140       | 91      | 1250          | 1130        | 90       | 1   | 75-118/23         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                 | 1250               | 1240       | 99      | 1250          | 1240        | 99       | 0   | 80-120/22         |
| 100-41-4   | Ethylbenzene                | ND                 | 1250               | 1180       | 94      | 1250          | 1160        | 93       | 2   | 81-121/14         |
| 76-13-1    | Freon 113                   | ND                 | 1250               | 1150       | 92      | 1250          | 1130        | 90       | 2   | 72-134/20         |
| 591-78-6   | 2-Hexanone                  | ND                 | 6250               | 6720       | 108     | 6250          | 6790        | 109      | 1   | 61-129/18         |
| 98-82-8    | Isopropylbenzene            | ND                 | 1250               | 1170       | 94      | 1250          | 1170        | 94       | 0   | 83-132/15         |
| 79-20-9    | Methyl Acetate              | ND                 | 6250               | 7010       | 112     | 6250          | 6940        | 111      | 1   | 65-126/18         |
| 74-83-9    | Methyl Bromide              | ND                 | 1250               | 1420       | 114     | 1250          | 1350        | 108      | 5   | 59-143/19         |
| 74-87-3    | Methyl Chloride             | ND                 | 1250               | 1330       | 106     | 1250          | 1280        | 102      | 4   | 50-159/19         |
| 108-87-2   | Methylcyclohexane           | ND                 | 1250               | 1410       | 113     | 1250          | 1380        | 110      | 2   | 76-129/17         |
| 75-09-2    | Methylene Chloride          | ND                 | 1250               | 1240       | 99      | 1250          | 1230        | 98       | 1   | 69-135/16         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                 | 6250               | 6640       | 106     | 6250          | 6800        | 109      | 2   | 66-122/16         |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|-----------|----|----------|----|-----------|------------|------------------|
| JD18033-11MS            | 5E26363.D | 50 | 12/30/20 | SO | n/a       | n/a        | V5E1214          |
| JD18033-11MSD           | 5E26364.D | 50 | 12/30/20 | SO | n/a       | n/a        | V5E1214          |
| JD18033-11 <sup>a</sup> | 5E26365.D | 50 | 12/30/20 | SO | n/a       | n/a        | V5E1214          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-11, FA81911-12, FA81911-13

| CAS No.   | Compound                  | JD18033-11<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|--------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                 | 1250               | 1170       | 94      | 1250          | 1190        | 95       | 2   | 72-117/14         |
| 100-42-5  | Styrene                   | ND                 | 1250               | 1160       | 93      | 1250          | 1130        | 90       | 3   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                 | 1250               | 1260       | 101     | 1250          | 1240        | 99       | 2   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                 | 1250               | 1160       | 93      | 1250          | 1160        | 93       | 0   | 76-135/16         |
| 108-88-3  | Toluene                   | ND                 | 1250               | 1150       | 92      | 1250          | 1130        | 90       | 2   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                 | 1250               | 1160       | 93      | 1250          | 1140        | 91       | 2   | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                 | 1250               | 1290       | 103     | 1250          | 1270        | 102      | 2   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                 | 1250               | 1190       | 95      | 1250          | 1180        | 94       | 1   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | 1790               | 1250               | 3180       | 111     | 1250          | 3110        | 106      | 2   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | ND                 | 1250               | 1560       | 125     | 1250          | 1460        | 117      | 7   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                 | 1250               | 1420       | 114     | 1250          | 1360        | 109      | 4   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | ND                 | 3750               | 3450       | 92      | 3750          | 3420        | 91       | 1   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | JD18033-11          | Limits  |
|------------|-----------------------|------|------|---------------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 99%  | 99%                 | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 101% | 104%                | 79-125% |
| 2037-26-5  | Toluene-D8            | 100% | 101% | 113% <sup>* b</sup> | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103% | 106% | 118%                | 83-118% |

(a) Confirmation run.

(b) Outside control limits high.

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID    | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|------------|-----|----------|----|-----------|------------|------------------|
| FA81911-10MS  | C0145975.D | 500 | 12/30/20 | SO | n/a       | n/a        | VC5863           |
| FA81911-10MSD | C0145976.D | 500 | 12/30/20 | SO | n/a       | n/a        | VC5863           |
| FA81911-10    | C0145972.D | 500 | 12/30/20 | SO | n/a       | n/a        | VC5863           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-1, FA81911-2, FA81911-3, FA81911-4, FA81911-5, FA81911-6, FA81911-7, FA81911-8, FA81911-9, FA81911-10

| CAS No.    | Compound                    | FA81911-10<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|--------------------|------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                 |            | 62500      | 56700      | 91      | 62500         | 53200       | 85       | 6   | 50-147/21         |
| 71-43-2    | Benzene                     | 490                | J          | 12500      | 11700      | 90      | 12500         | 10900       | 83       | 7   | 81-122/14         |
| 75-27-4    | Bromodichloromethane        | ND                 |            | 12500      | 12100      | 97      | 12500         | 11200       | 90       | 8   | 79-123/19         |
| 75-25-2    | Bromoform                   | ND                 |            | 12500      | 11500      | 92      | 12500         | 10700       | 86       | 7   | 66-123/21         |
| 78-93-3    | 2-Butanone (MEK)            | 1010               | J          | 62500      | 55500      | 87      | 62500         | 51000       | 80       | 8   | 56-143/18         |
| 75-15-0    | Carbon Disulfide            | ND                 |            | 12500      | 10500      | 84      | 12500         | 9620        | 77       | 9   | 66-148/23         |
| 56-23-5    | Carbon Tetrachloride        | ND                 |            | 12500      | 12200      | 98      | 12500         | 11700       | 94       | 4   | 76-136/23         |
| 108-90-7   | Chlorobenzene               | ND                 |            | 12500      | 11200      | 90      | 12500         | 10600       | 85       | 6   | 82-124/14         |
| 75-00-3    | Chloroethane                | ND                 |            | 12500      | 10900      | 87      | 12500         | 10500       | 84       | 4   | 62-144/20         |
| 67-66-3    | Chloroform                  | ND                 |            | 12500      | 11900      | 95      | 12500         | 11200       | 90       | 6   | 80-124/15         |
| 110-82-7   | Cyclohexane                 | ND                 |            | 12500      | 11100      | 89      | 12500         | 10400       | 83       | 7   | 73-138/18         |
| 124-48-1   | Dibromochloromethane        | ND                 |            | 12500      | 11700      | 94      | 12500         | 10800       | 86       | 8   | 78-122/19         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                 |            | 12500      | 10100      | 81      | 12500         | 9310        | 74       | 8   | 64-123/18         |
| 106-93-4   | 1,2-Dibromoethane           | ND                 |            | 12500      | 10900      | 87      | 12500         | 9960        | 80       | 9   | 75-120/13         |
| 75-71-8    | Dichlorodifluoromethane     | ND                 |            | 12500      | 12000      | 96      | 12500         | 11200       | 90       | 7   | 42-167/19         |
| 95-50-1    | 1,2-Dichlorobenzene         | 568                |            | 12500      | 11700      | 89      | 12500         | 10900       | 83       | 7   | 82-124/14         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                 |            | 12500      | 11400      | 91      | 12500         | 10600       | 85       | 7   | 84-125/14         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                 |            | 12500      | 11000      | 88      | 12500         | 10200       | 82       | 8   | 78-120/15         |
| 75-34-3    | 1,1-Dichloroethane          | ND                 |            | 12500      | 12300      | 98      | 12500         | 11300       | 90       | 8   | 81-122/15         |
| 107-06-2   | 1,2-Dichloroethane          | ND                 |            | 12500      | 11800      | 94      | 12500         | 10800       | 86       | 9   | 75-125/14         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                 |            | 12500      | 12300      | 98      | 12500         | 11300       | 90       | 8   | 78-137/18         |
| 156-59-2   | cis-1,2-Dichloroethylene    | 4820               |            | 12500      | 17100      | 98      | 12500         | 15400       | 85       | 10  | 78-120/15         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                 |            | 12500      | 11700      | 94      | 12500         | 10700       | 86       | 9   | 76-127/17         |
| 78-87-5    | 1,2-Dichloropropane         | ND                 |            | 12500      | 11100      | 89      | 12500         | 10300       | 82       | 7   | 76-124/14         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                 |            | 12500      | 10500      | 84      | 12500         | 9930        | 79       | 6   | 75-118/23         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                 |            | 12500      | 11300      | 90      | 12500         | 10400       | 83       | 8   | 80-120/22         |
| 100-41-4   | Ethylbenzene                | 6270               |            | 12500      | 17600      | 91      | 12500         | 16500       | 82       | 6   | 81-121/14         |
| 76-13-1    | Freon 113                   | ND                 |            | 12500      | 10500      | 84      | 12500         | 9250        | 74       | 13  | 72-134/20         |
| 591-78-6   | 2-Hexanone                  | ND                 |            | 62500      | 55500      | 89      | 62500         | 52200       | 84       | 6   | 61-129/18         |
| 98-82-8    | Isopropylbenzene            | ND                 |            | 12500      | 11700      | 94      | 12500         | 10900       | 87       | 7   | 83-132/15         |
| 79-20-9    | Methyl Acetate              | ND                 |            | 62500      | 54100      | 87      | 62500         | 51300       | 82       | 5   | 65-126/18         |
| 74-83-9    | Methyl Bromide              | ND                 |            | 12500      | 10100      | 81      | 12500         | 10900       | 87       | 8   | 59-143/19         |
| 74-87-3    | Methyl Chloride             | ND                 |            | 12500      | 12900      | 103     | 12500         | 11900       | 95       | 8   | 50-159/19         |
| 108-87-2   | Methylcyclohexane           | ND                 |            | 12500      | 12300      | 98      | 12500         | 11900       | 95       | 3   | 76-129/17         |
| 75-09-2    | Methylene Chloride          | ND                 |            | 12500      | 10400      | 83      | 12500         | 9530        | 76       | 9   | 69-135/16         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 573                | J          | 62500      | 57900      | 92      | 62500         | 53900       | 85       | 7   | 66-122/16         |

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID    | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|------------|-----|----------|----|-----------|------------|------------------|
| FA81911-10MS  | C0145975.D | 500 | 12/30/20 | SO | n/a       | n/a        | VC5863           |
| FA81911-10MSD | C0145976.D | 500 | 12/30/20 | SO | n/a       | n/a        | VC5863           |
| FA81911-10    | C0145972.D | 500 | 12/30/20 | SO | n/a       | n/a        | VC5863           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-1, FA81911-2, FA81911-3, FA81911-4, FA81911-5, FA81911-6, FA81911-7, FA81911-8, FA81911-9, FA81911-10

| CAS No.   | Compound                  | FA81911-10 Spike |   | MS ug/l | MS %  | Spike ug/l | MSD ug/l | MSD % | RPD   | Limits Rec/RPD |
|-----------|---------------------------|------------------|---|---------|-------|------------|----------|-------|-------|----------------|
|           |                           | ug/l             | Q |         |       |            |          |       |       |                |
| 1634-04-4 | Methyl Tert Butyl Ether   | ND               |   | 12500   | 10500 | 84         | 12500    | 9700  | 8     | 72-117/14      |
| 100-42-5  | Styrene                   | ND               |   | 12500   | 11000 | 88         | 12500    | 10300 | 7     | 78-119/23      |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND               |   | 12500   | 10500 | 84         | 12500    | 9800  | 7     | 72-120/14      |
| 127-18-4  | Tetrachloroethylene       | ND               |   | 12500   | 12100 | 97         | 12500    | 11400 | 6     | 76-135/16      |
| 108-88-3  | Toluene                   | 54500            | E | 12500   | 66400 | 95         | 12500    | 61300 | 54* a | 80-120/14      |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND               |   | 12500   | 10100 | 81         | 12500    | 10200 | 1     | 73-129/20      |
| 71-55-6   | 1,1,1-Trichloroethane     | 226              | J | 12500   | 12700 | 100        | 12500    | 11600 | 9     | 75-130/16      |
| 79-00-5   | 1,1,2-Trichloroethane     | ND               |   | 12500   | 11000 | 88         | 12500    | 9930  | 10    | 76-119/14      |
| 79-01-6   | Trichloroethylene         | ND               |   | 12500   | 11300 | 90         | 12500    | 10600 | 6     | 81-126/15      |
| 75-69-4   | Trichlorofluoromethane    | ND               |   | 12500   | 15100 | 121        | 12500    | 13800 | 9     | 71-156/21      |
| 75-01-4   | Vinyl Chloride            | ND               |   | 12500   | 12500 | 100        | 12500    | 11600 | 7     | 69-159/18      |
| 1330-20-7 | Xylene (total)            | 58500            |   | 37500   | 91400 | 88         | 37500    | 84800 | 70*   | 80-126/15      |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81911-10 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 101% | 100%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | 102% | 106%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%  | 99%  | 96%        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 102% | 100%       | 83-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81911  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID    | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|------------|-----|----------|----|-----------|------------|------------------|
| JD18033-1MS            | C0146005.D | 250 | 12/31/20 | SO | n/a       | n/a        | VC5864           |
| JD18033-1MSD           | C0146006.D | 250 | 12/31/20 | SO | n/a       | n/a        | VC5864           |
| JD18033-1 <sup>a</sup> | C0145988.D | 250 | 12/31/20 | SO | n/a       | n/a        | VC5864           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81911-10, FA81911-11

| CAS No.  | Compound | JD18033-1<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|----------|----------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 108-88-3 | Toluene  | ND                | 6250               | 5520       | 88      | 6250          | 5070        | 81       | 8   | 80-120/14         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | JD18033-1 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 101% | 99%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 104% | 106%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%  | 99%  | 97%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 99%  | 100%      | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values. Confirmation run for surrogate recoveries.

\* = Outside of Control Limits.

5.3.3  
5

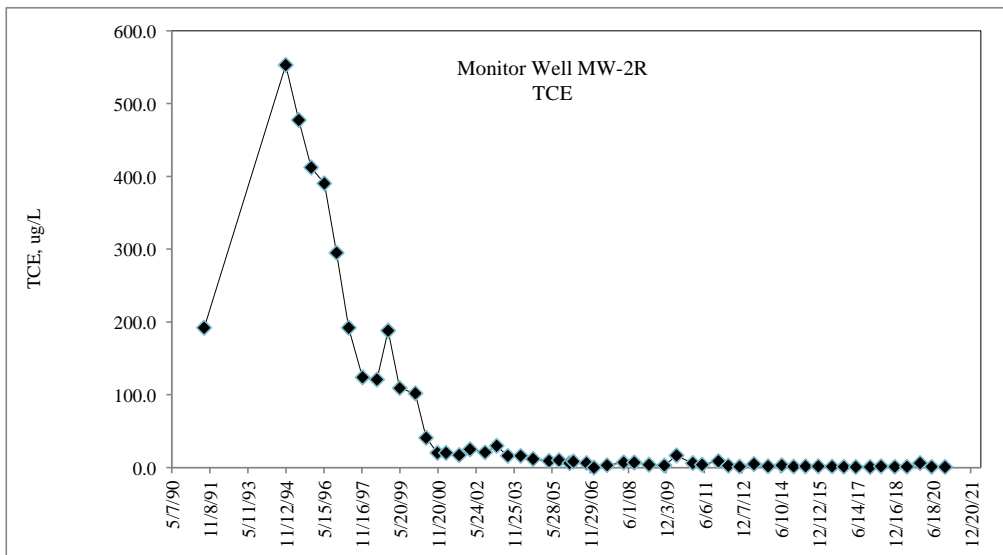
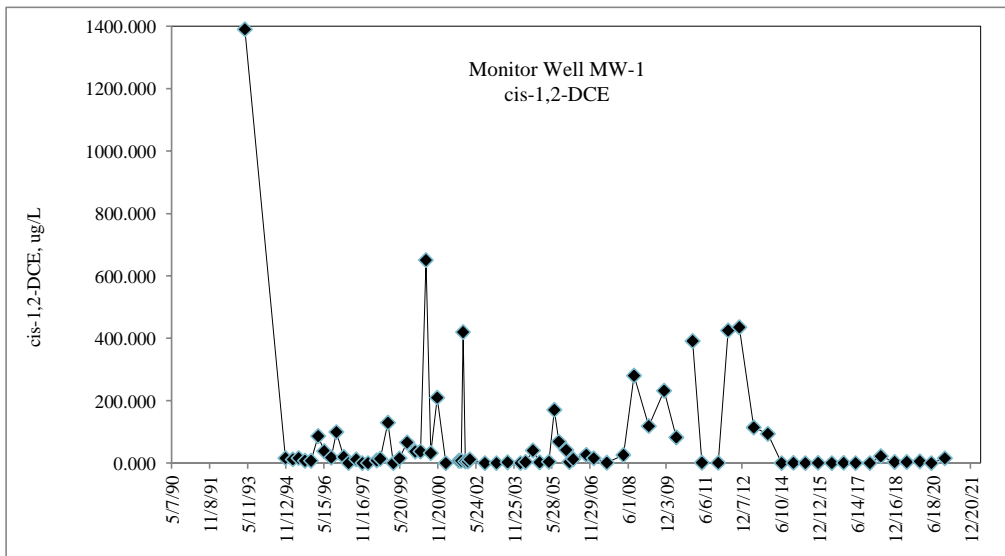
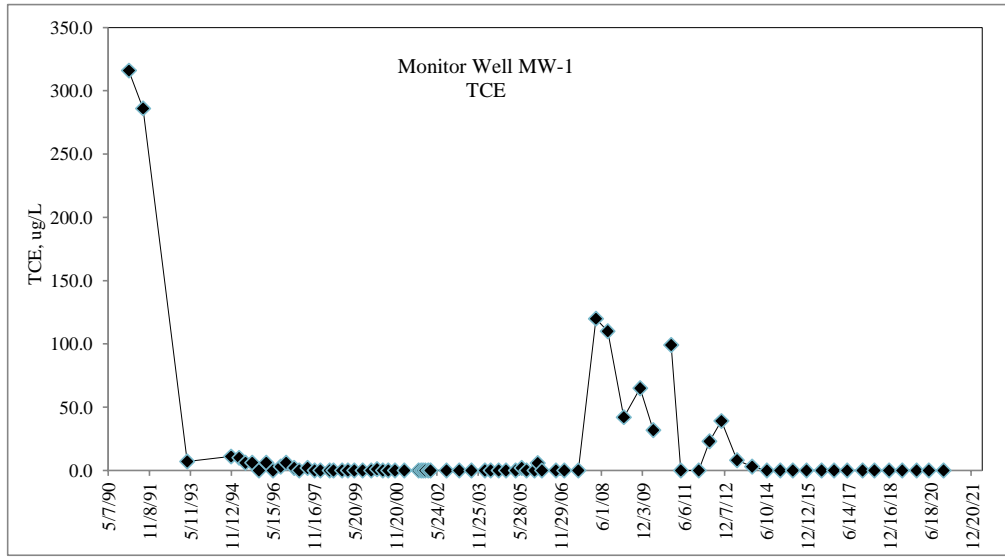
# APPENDIX D

## Time vs Concentration Graphs

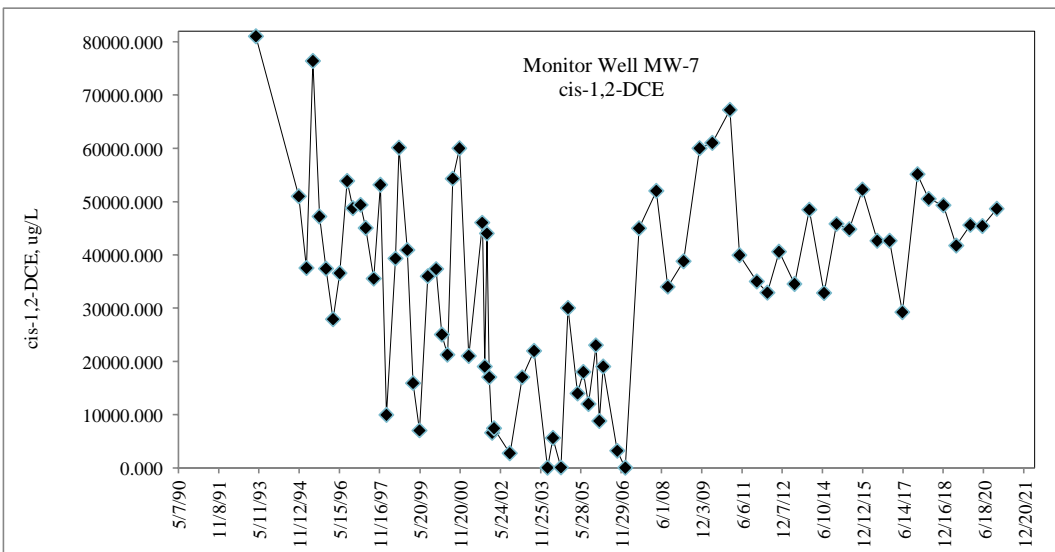
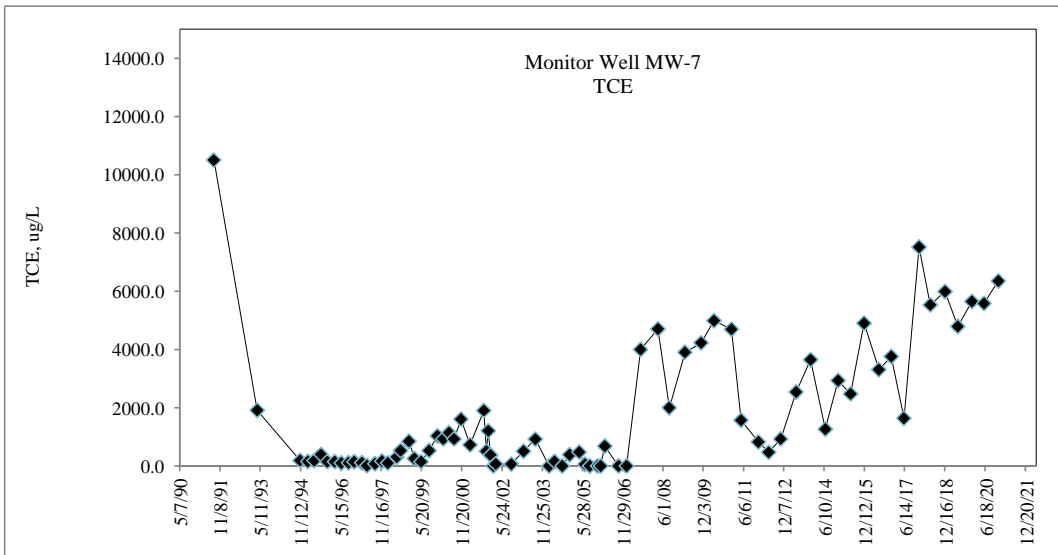
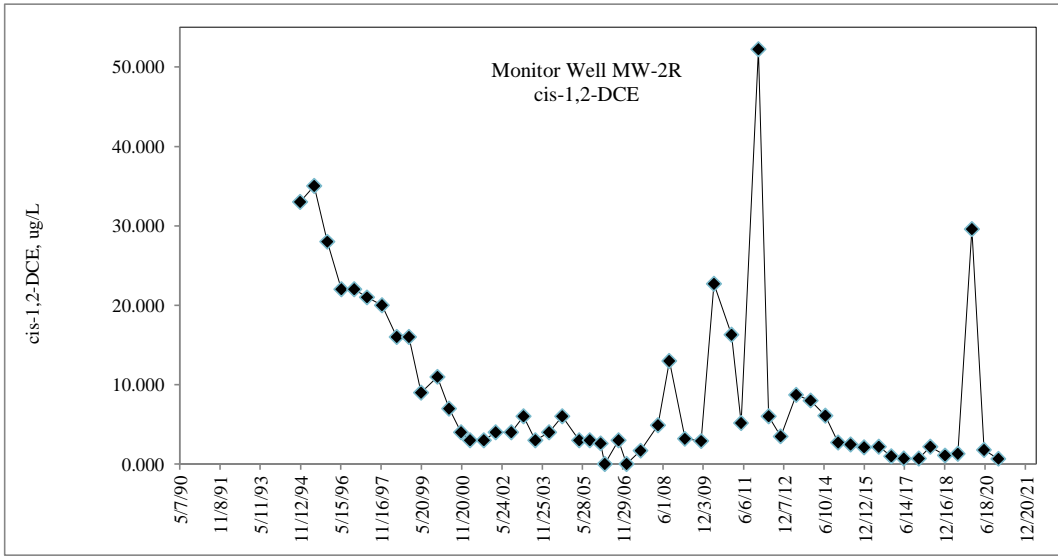




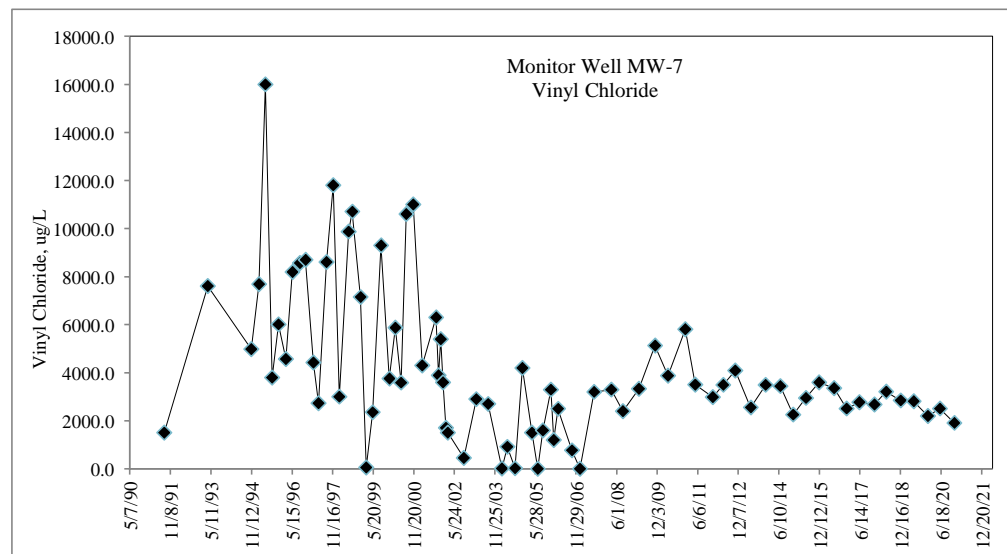
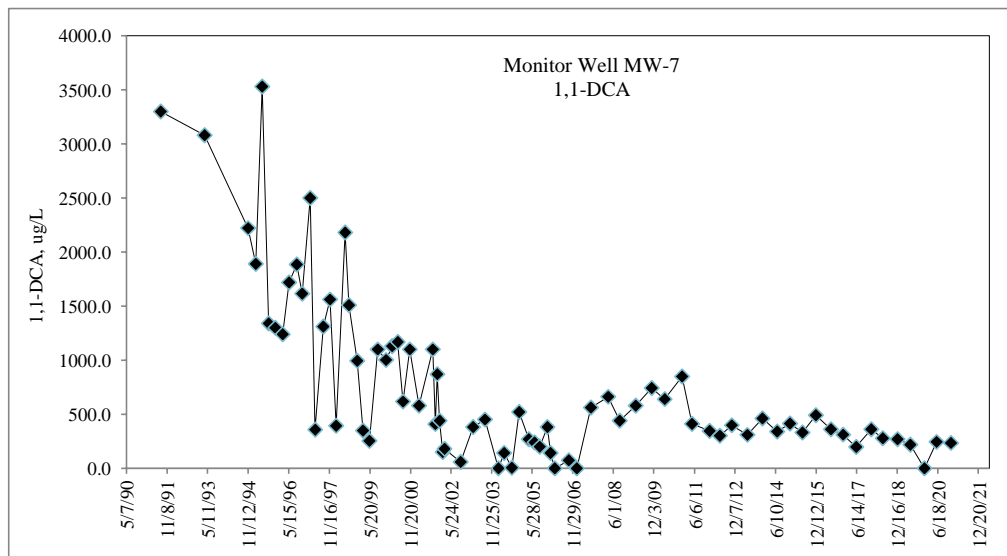
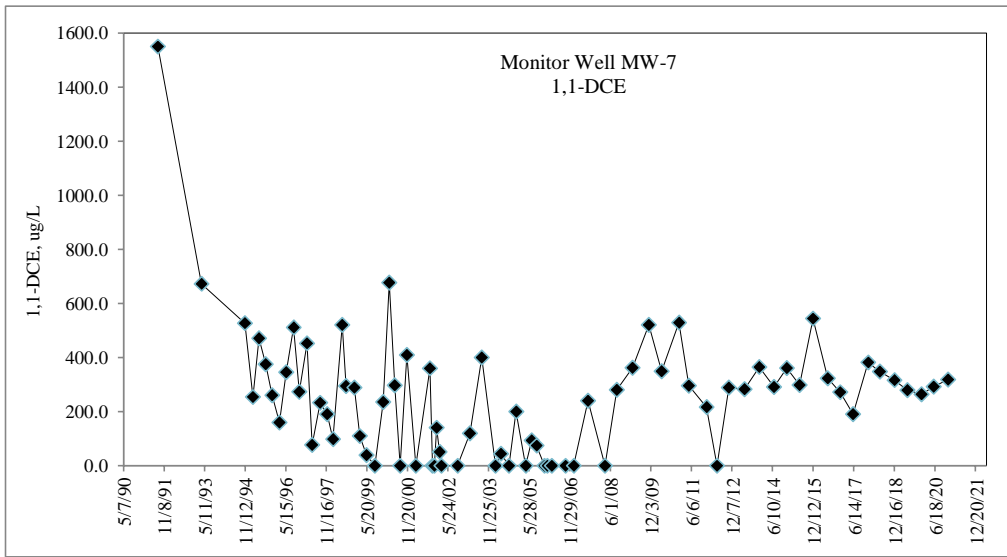
Appendix D. Time vs Concentration Graphs  
 Brenntag Southeast, Charleston, South Carolina  
 (revised 1/5/2021)



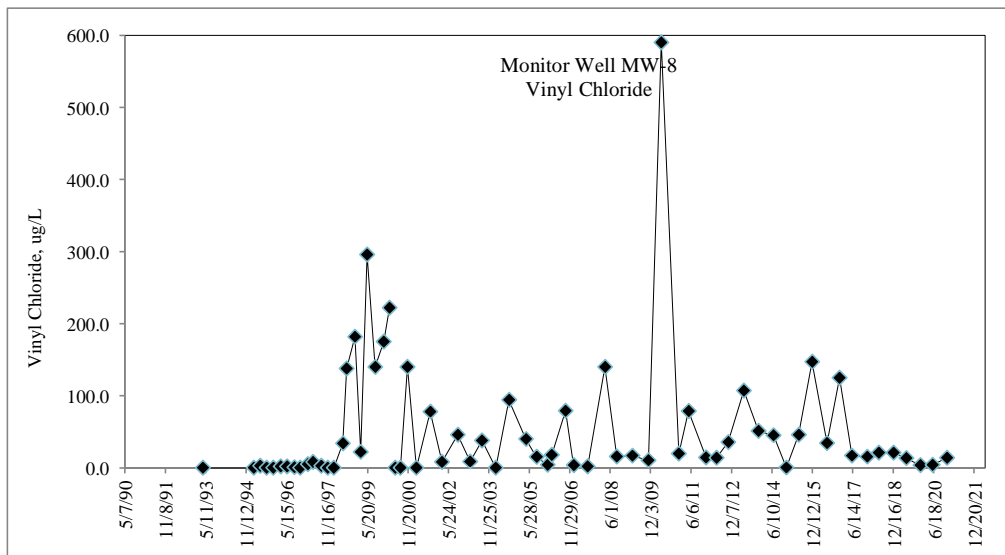
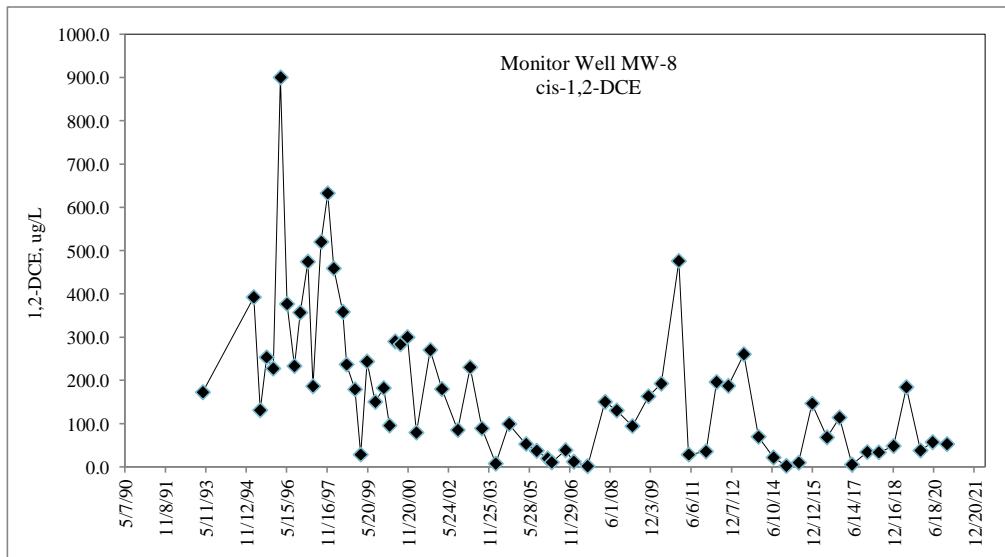
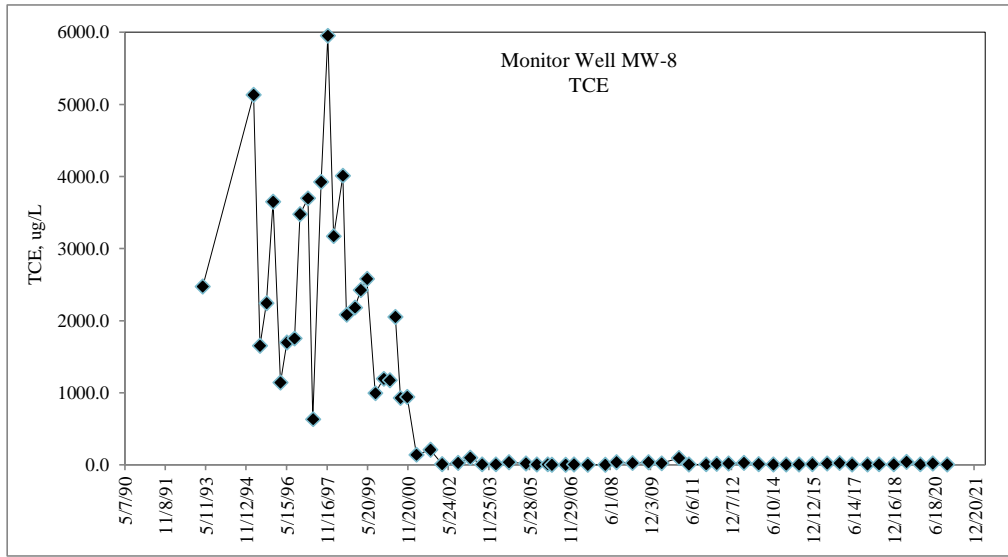
Appendix D. Time vs Concentration Graphs  
 Brenntag Southeast, Charleston, South Carolina  
 (revised 1/5/2021)



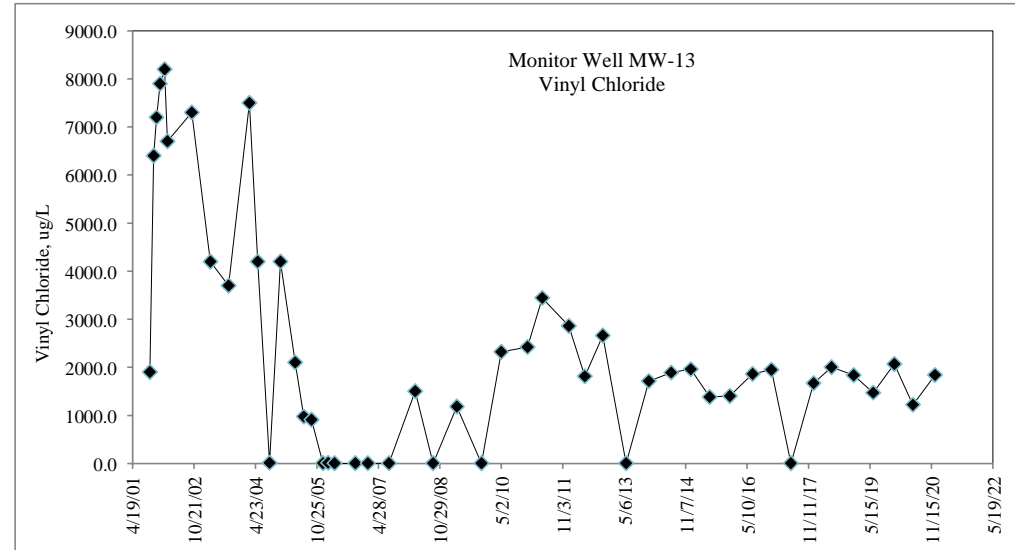
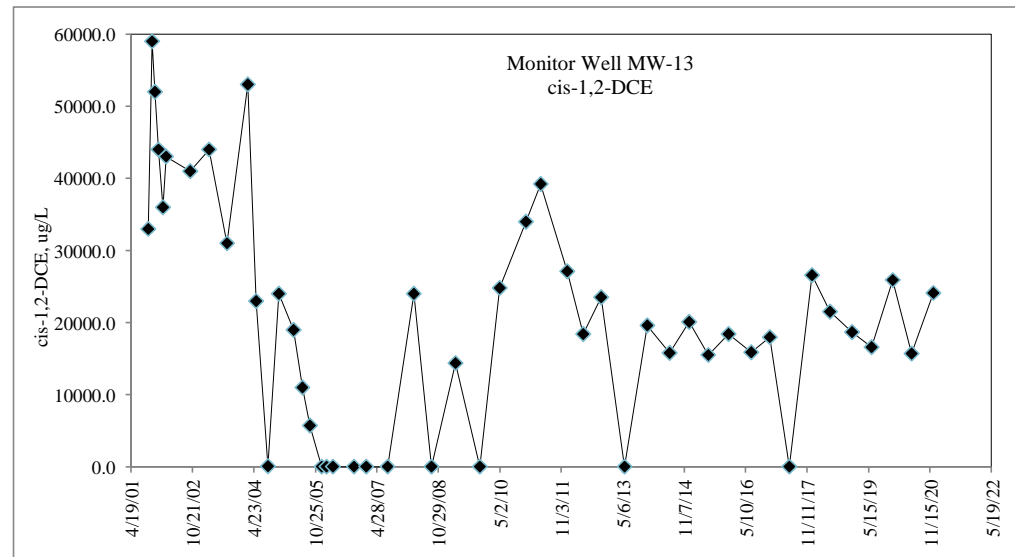
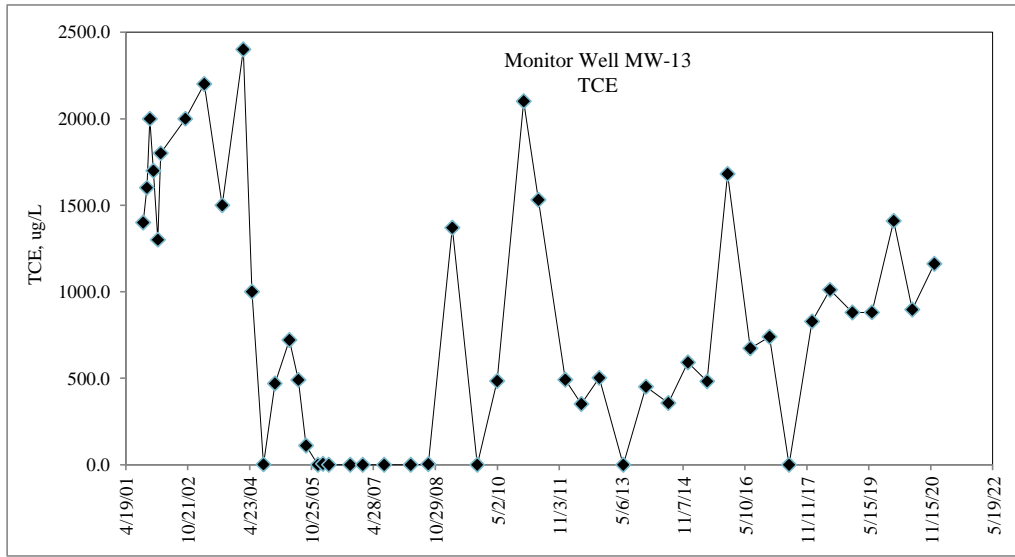
Appendix D. Time vs Concentration Graphs  
Brenntag Southeast, Charleston, South Carolina  
(revised 1/5/2021)



Appendix D. Time vs Concentration Graphs  
 Brenntag Southeast, Charleston, South Carolina  
 (revised 1/5/2021)



Appendix D. Time vs Concentration Graphs  
Brenntag Southeast, Charleston, South Carolina  
(revised 1/5/2021)



# APPENDIX E

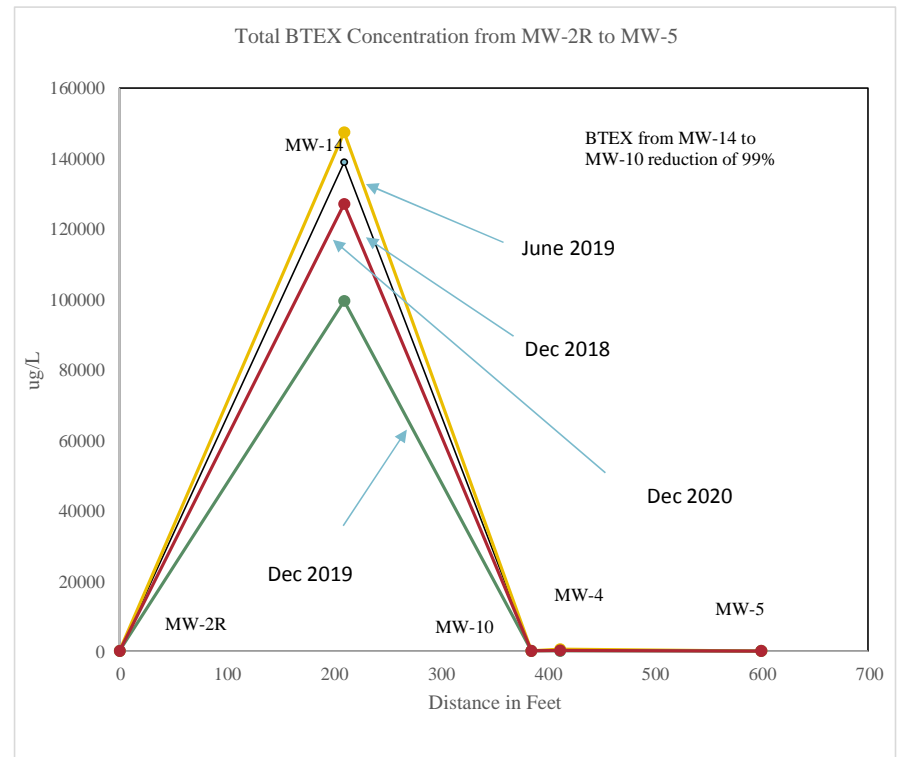
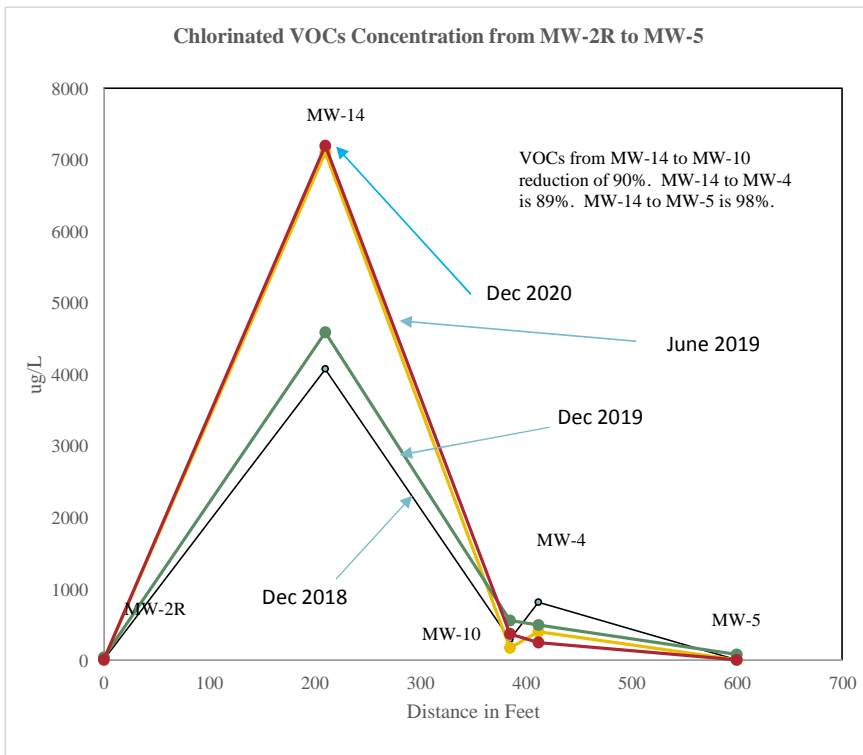
Time vs Concentration Plots for Area #2



Appendix E. Distance vs Concentration Plots for Area #2

| Well ID | Distance | VOCs   |        |        |        |
|---------|----------|--------|--------|--------|--------|
|         |          | Dec-18 | Jun-19 | Dec-19 | Dec-20 |
| MW-2R   | 0        | 2.6    | 2.6    | 36.3   | 1.5    |
| MW-14   | 210      | 4070   | 7100   | 4585   | 7197   |
| MW-10   | 385      | 284    | 169    | 551    | 363    |
| MW-4    | 412      | 806    | 395    | 489    | 245    |
| MW-5    | 600      | 0.43   | 0      | 74.5   | 0      |

| Well ID | Distance | BTEX   |        |        |        |
|---------|----------|--------|--------|--------|--------|
|         |          | Dec-18 | Jun-19 | Dec-19 | Dec-20 |
| MW-2R   | 0        | 4.1    | 1.6    | 0.58   | 0      |
| MW-14   | 210      | 138874 | 147406 | 99479  | 127060 |
| MW-10   | 385      | 2.8    | 16     | 8.7    | 9.2    |
| MW-4    | 412      | 137    | 496    | 23.8   | 117    |
| MW-5    | 600      | 0      | 0      | 0      | 0      |



# APPENDIX F

Area #2 Soil Analytical Laboratory Reports





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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

ARCADIS Geraghty & Miller

Brenntag; Charleston, SC

SC000204.0011.00001

SGS Job Number: FA80928

Sampling Date: 11/17/20

Report to:

ARCADIS Geraghty & Miller  
1450 Greene St Suite 220  
Augusta, GA 30901  
charles.lawson@arcadis.com; Edward.Hirshenson@arcadis.com  
  
ATTN: Charles Lawson

Total number of pages in report: **88**



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

A handwritten signature in black ink that reads "Norm Farmer".

Norm Farmer  
Technical Director

Client Service contact: Evita Martinez 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FLO02), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA80928

Brenntag; Charleston, SC  
 Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

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

|            |          |       |    |          |    |      |           |
|------------|----------|-------|----|----------|----|------|-----------|
| FA80928-1  | 11/17/20 | 08:34 | CL | 11/18/20 | SO | Soil | A2-1 (3') |
| FA80928-2  | 11/17/20 | 08:41 | CL | 11/18/20 | SO | Soil | A2-1 (5') |
| FA80928-3  | 11/17/20 | 09:15 | CL | 11/18/20 | SO | Soil | A2-2 (3') |
| FA80928-4  | 11/17/20 | 09:19 | CL | 11/18/20 | SO | Soil | A2-2 (5') |
| FA80928-5  | 11/17/20 | 09:54 | CL | 11/18/20 | SO | Soil | A2-4 (3') |
| FA80928-6  | 11/17/20 | 09:59 | CL | 11/18/20 | SO | Soil | A2-4 (5') |
| FA80928-7  | 11/17/20 | 10:33 | CL | 11/18/20 | SO | Soil | A2-8 (3') |
| FA80928-8  | 11/17/20 | 10:35 | CL | 11/18/20 | SO | Soil | A2-8 (5') |
| FA80928-9  | 11/17/20 | 11:17 | CL | 11/18/20 | SO | Soil | A2-5 (3') |
| FA80928-10 | 11/17/20 | 11:19 | CL | 11/18/20 | SO | Soil | A2-5 (5') |
| FA80928-11 | 11/17/20 | 11:51 | CL | 11/18/20 | SO | Soil | A2-9 (3') |
| FA80928-12 | 11/17/20 | 11:54 | CL | 11/18/20 | SO | Soil | A2-9 (6') |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

ARCADIS Geraghty & Miller

**Job No:** FA80928

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected |       |    | Received | Matrix |      | Client Sample ID |
|---------------|-----------|-------|----|----------|--------|------|------------------|
|               | Date      | Time  | By |          | Code   | Type |                  |
| FA80928-13    | 11/17/20  | 13:07 | CL | 11/18/20 | SO     | Soil | A2-10 (3')       |
| FA80928-14    | 11/17/20  | 13:09 | CL | 11/18/20 | SO     | Soil | A2-10 (6')       |
| FA80928-15    | 11/17/20  | 13:37 | CL | 11/18/20 | SO     | Soil | A2-13 (3')       |
| FA80928-16    | 11/17/20  | 13:39 | CL | 11/18/20 | SO     | Soil | A2-13 (6')       |
| FA80928-17    | 11/17/20  | 14:10 | CL | 11/18/20 | SO     | Soil | A2-14 (3')       |
| FA80928-18    | 11/17/20  | 14:13 | CL | 11/18/20 | SO     | Soil | A2-14 (6')       |
| FA80928-19    | 11/17/20  | 14:49 | CL | 11/18/20 | SO     | Soil | A2-3 (3')        |
| FA80928-20    | 11/17/20  | 14:51 | CL | 11/18/20 | SO     | Soil | A2-3 (5')        |
| FA80928-21    | 11/17/20  | 15:26 | CL | 11/18/20 | SO     | Soil | A2-6 (3')        |
| FA80928-22    | 11/17/20  | 15:28 | CL | 11/18/20 | SO     | Soil | A2-6 (5')        |
| FA80928-23    | 11/17/20  | 15:56 | CL | 11/18/20 | SO     | Soil | A2-7 (3')        |
| FA80928-24    | 11/17/20  | 15:58 | CL | 11/18/20 | SO     | Soil | A2-7 (5')        |

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

2

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80928-1**      A2-1 (3')

|                          |       |     |      |       |             |
|--------------------------|-------|-----|------|-------|-------------|
| Acetone                  | 312   | 160 | 80   | ug/kg | SW846 8260D |
| Benzene                  | 40.5  | 4.0 | 0.97 | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         | 29.6  | 20  | 5.8  | ug/kg | SW846 8260D |
| Carbon Disulfide         | 2.3 J | 4.0 | 0.80 | ug/kg | SW846 8260D |
| Chlorobenzene            | 116   | 4.0 | 0.80 | ug/kg | SW846 8260D |
| Cyclohexane              | 12.8  | 4.0 | 0.99 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      | 24.8  | 4.0 | 0.80 | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      | 4.7   | 4.0 | 0.80 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      | 57.5  | 4.0 | 0.92 | ug/kg | SW846 8260D |
| 1,1-Dichloroethane       | 1.8 J | 4.0 | 1.4  | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene | 3.5 J | 4.0 | 1.1  | ug/kg | SW846 8260D |
| Ethylbenzene             | 1490  | 230 | 47   | ug/kg | SW846 8260D |
| Isopropylbenzene         | 17.1  | 4.0 | 0.80 | ug/kg | SW846 8260D |
| Methylcyclohexane        | 5.7   | 4.0 | 1.4  | ug/kg | SW846 8260D |
| Toluene                  | 90.8  | 16  | 8.0  | ug/kg | SW846 8260D |
| Vinyl Chloride           | 2.5 J | 4.0 | 0.80 | ug/kg | SW846 8260D |
| Xylene (total)           | 4580  | 700 | 98   | ug/kg | SW846 8260D |

**FA80928-2**      A2-1 (5')

|                          |        |     |      |       |             |
|--------------------------|--------|-----|------|-------|-------------|
| Acetone                  | 71.7 J | 140 | 71   | ug/kg | SW846 8260D |
| Benzene                  | 15.7   | 3.6 | 0.87 | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         | 7.4 J  | 18  | 5.2  | ug/kg | SW846 8260D |
| Chlorobenzene            | 33.6   | 3.6 | 0.71 | ug/kg | SW846 8260D |
| Cyclohexane              | 4.6    | 3.6 | 0.89 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      | 19.1   | 3.6 | 0.71 | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      | 2.3 J  | 3.6 | 0.71 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      | 13.8   | 3.6 | 0.82 | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene | 3.8    | 3.6 | 0.98 | ug/kg | SW846 8260D |
| Ethylbenzene             | 1050   | 230 | 45   | ug/kg | SW846 8260D |
| Isopropylbenzene         | 5.1    | 3.6 | 0.71 | ug/kg | SW846 8260D |
| Methylcyclohexane        | 2.4 J  | 3.6 | 1.2  | ug/kg | SW846 8260D |
| Toluene                  | 123    | 14  | 7.1  | ug/kg | SW846 8260D |
| Vinyl Chloride           | 0.79 J | 3.6 | 0.71 | ug/kg | SW846 8260D |
| Xylene (total)           | 4160   | 680 | 95   | ug/kg | SW846 8260D |

**FA80928-3**      A2-2 (3')

|                  |       |     |      |       |             |
|------------------|-------|-----|------|-------|-------------|
| Acetone          | 231   | 130 | 66   | ug/kg | SW846 8260D |
| Benzene          | 87.7  | 3.3 | 0.81 | ug/kg | SW846 8260D |
| 2-Butanone (MEK) | 31.4  | 17  | 4.8  | ug/kg | SW846 8260D |
| Carbon Disulfide | 2.5 J | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Cyclohexane      | 16.3  | 3.3 | 0.83 | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

|                          |  |       |     |      |       |             |
|--------------------------|--|-------|-----|------|-------|-------------|
| 1,2-Dichlorobenzene      |  | 333   | 230 | 46   | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 12.4  | 3.3 | 0.66 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 38.1  | 3.3 | 0.76 | ug/kg | SW846 8260D |
| 1,1-Dichloroethane       |  | 1.8 J | 3.3 | 1.2  | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 4.9   | 3.3 | 0.91 | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 3450  | 230 | 46   | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 55.1  | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Methylcyclohexane        |  | 8.5   | 3.3 | 1.1  | ug/kg | SW846 8260D |
| Toluene                  |  | 2080  | 920 | 460  | ug/kg | SW846 8260D |
| Vinyl Chloride           |  | 1.9 J | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Xylene (total)           |  | 11300 | 690 | 97   | ug/kg | SW846 8260D |

**FA80928-4      A2-2 (5')**

|                        |  |        |       |      |       |             |
|------------------------|--|--------|-------|------|-------|-------------|
| Benzene                |  | 344    | 230   | 57   | ug/kg | SW846 8260D |
| Cyclohexane            |  | 302    | 230   | 59   | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene    |  | 11300  | 2300  | 470  | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene    |  | 924    | 230   | 47   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene    |  | 2570   | 230   | 54   | ug/kg | SW846 8260D |
| Ethylbenzene           |  | 78700  | 2300  | 470  | ug/kg | SW846 8260D |
| Isopropylbenzene       |  | 3170   | 230   | 47   | ug/kg | SW846 8260D |
| Methylcyclohexane      |  | 302    | 230   | 80   | ug/kg | SW846 8260D |
| Toluene                |  | 25900  | 9400  | 4700 | ug/kg | SW846 8260D |
| 1,2,4-Trichlorobenzene |  | 215 J  | 230   | 47   | ug/kg | SW846 8260D |
| Xylene (total)         |  | 483000 | 70000 | 9800 | ug/kg | SW846 8260D |

**FA80928-5      A2-4 (3')**

|                          |  |        |       |      |       |             |
|--------------------------|--|--------|-------|------|-------|-------------|
| Benzene                  |  | 321    | 250   | 62   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         |  | 7040   | 1300  | 370  | ug/kg | SW846 8260D |
| Cyclohexane              |  | 166 J  | 250   | 63   | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 19700  | 2500  | 510  | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 1550   | 250   | 51   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 4060   | 250   | 58   | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 624    | 250   | 70   | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 42700  | 2500  | 510  | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 1080   | 250   | 51   | ug/kg | SW846 8260D |
| Methylcyclohexane        |  | 211 J  | 250   | 86   | ug/kg | SW846 8260D |
| Toluene                  |  | 71000  | 10000 | 5100 | ug/kg | SW846 8260D |
| 1,2,4-Trichlorobenzene   |  | 346    | 250   | 51   | ug/kg | SW846 8260D |
| Xylene (total)           |  | 242000 | 7600  | 1100 | ug/kg | SW846 8260D |

**FA80928-6      A2-4 (5')**

|         |  |        |     |    |       |             |
|---------|--|--------|-----|----|-------|-------------|
| Benzene |  | 74.9 J | 280 | 67 | ug/kg | SW846 8260D |
|---------|--|--------|-----|----|-------|-------------|

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

|                     |  |        |      |     |       |             |
|---------------------|--|--------|------|-----|-------|-------------|
| Chlorobenzene       |  | 643    | 280  | 55  | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene |  | 82.1 J | 280  | 55  | ug/kg | SW846 8260D |
| Ethylbenzene        |  | 1670   | 280  | 55  | ug/kg | SW846 8260D |
| Isopropylbenzene    |  | 146 J  | 280  | 55  | ug/kg | SW846 8260D |
| Toluene             |  | 704 J  | 1100 | 550 | ug/kg | SW846 8260D |
| Xylene (total)      |  | 11500  | 830  | 120 | ug/kg | SW846 8260D |

### FA80928-7 A2-8 (3')

|                          |  |        |      |      |       |             |
|--------------------------|--|--------|------|------|-------|-------------|
| Acetone                  |  | 6750 J | 7500 | 3700 | ug/kg | SW846 8260D |
| Benzene                  |  | 46.2 J | 190  | 46   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         |  | 6400   | 940  | 270  | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 556    | 190  | 37   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 84.7 J | 190  | 43   | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 220    | 190  | 52   | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 3230   | 190  | 37   | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 84.7 J | 190  | 37   | ug/kg | SW846 8260D |
| Methyl Acetate           |  | 492 J  | 940  | 330  | ug/kg | SW846 8260D |
| Toluene                  |  | 11200  | 3000 | 1500 | ug/kg | SW846 8260D |
| Xylene (total)           |  | 36400  | 2200 | 310  | ug/kg | SW846 8260D |

### FA80928-8 A2-8 (5')

|                          |  |          |         |        |       |             |
|--------------------------|--|----------|---------|--------|-------|-------------|
| Benzene                  |  | 4000 J   | 4600    | 1100   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         |  | 7390 J   | 23000   | 6600   | ug/kg | SW846 8260D |
| Cyclohexane              |  | 3810 J   | 4600    | 1100   | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 50300    | 4600    | 910    | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 3710 J   | 4600    | 910    | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 10100    | 4600    | 1000   | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 10300    | 4600    | 1300   | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 1260000  | 110000  | 23000  | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 28600    | 4600    | 910    | ug/kg | SW846 8260D |
| Methylcyclohexane        |  | 9440     | 4600    | 1600   | ug/kg | SW846 8260D |
| Toluene                  |  | 2200000  | 460000  | 230000 | ug/kg | SW846 8260D |
| 1,1,1-Trichloroethane    |  | 938 J    | 4600    | 910    | ug/kg | SW846 8260D |
| Trichloroethylene        |  | 1670 J   | 4600    | 910    | ug/kg | SW846 8260D |
| Xylene (total)           |  | 10400000 | 3400000 | 480000 | ug/kg | SW846 8260D |

### FA80928-9 A2-5 (3')

|                     |  |        |      |     |       |             |
|---------------------|--|--------|------|-----|-------|-------------|
| 1,2-Dichlorobenzene |  | 38800  | 4000 | 810 | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene |  | 3150 J | 4000 | 810 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene |  | 8490   | 4000 | 930 | ug/kg | SW846 8260D |
| Ethylbenzene        |  | 95800  | 4000 | 810 | ug/kg | SW846 8260D |
| Isopropylbenzene    |  | 2740 J | 4000 | 810 | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

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| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

|                |  |        |       |      |       |             |
|----------------|--|--------|-------|------|-------|-------------|
| Toluene        |  | 151000 | 16000 | 8100 | ug/kg | SW846 8260D |
| Xylene (total) |  | 962000 | 60000 | 8500 | ug/kg | SW846 8260D |

**FA80928-10 A2-5 (5')**

|                          |  |          |         |        |       |             |
|--------------------------|--|----------|---------|--------|-------|-------------|
| Benzene                  |  | 8510 J   | 11000   | 2800   | ug/kg | SW846 8260D |
| Cyclohexane              |  | 10800 J  | 11000   | 2800   | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 207000   | 11000   | 2300   | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 16300    | 11000   | 2300   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 43400    | 11000   | 2600   | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 17700    | 11000   | 3100   | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 4080000  | 230000  | 45000  | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 53200    | 11000   | 2300   | ug/kg | SW846 8260D |
| Methylcyclohexane        |  | 14300    | 11000   | 3900   | ug/kg | SW846 8260D |
| Toluene                  |  | 6790000  | 910000  | 450000 | ug/kg | SW846 8260D |
| Trichloroethylene        |  | 5730 J   | 11000   | 2300   | ug/kg | SW846 8260D |
| Xylene (total)           |  | 20900000 | 6800000 | 950000 | ug/kg | SW846 8260D |

**FA80928-11 A2-9 (3')**

|                          |  |        |      |      |       |             |
|--------------------------|--|--------|------|------|-------|-------------|
| Benzene                  |  | 96.3 J | 230  | 56   | ug/kg | SW846 8260D |
| Carbon Disulfide         |  | 55.5 J | 230  | 46   | ug/kg | SW846 8260D |
| Chlorobenzene            |  | 777    | 230  | 46   | ug/kg | SW846 8260D |
| Cyclohexane              |  | 57.6 J | 230  | 57   | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 803    | 230  | 46   | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 232    | 230  | 46   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 920    | 230  | 53   | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 360    | 230  | 63   | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 14100  | 2300 | 460  | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 268    | 230  | 46   | ug/kg | SW846 8260D |
| Methylcyclohexane        |  | 179 J  | 230  | 78   | ug/kg | SW846 8260D |
| Toluene                  |  | 18500  | 9200 | 4600 | ug/kg | SW846 8260D |
| Xylene (total)           |  | 166000 | 6900 | 970  | ug/kg | SW846 8260D |

**FA80928-12 A2-9 (6')**

|                     |  |         |         |        |       |             |
|---------------------|--|---------|---------|--------|-------|-------------|
| 1,2-Dichlorobenzene |  | 63800   | 22000   | 4400   | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene |  | 4720 J  | 22000   | 4400   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene |  | 13000 J | 22000   | 5100   | ug/kg | SW846 8260D |
| Ethylbenzene        |  | 523000  | 22000   | 4400   | ug/kg | SW846 8260D |
| Isopropylbenzene    |  | 15400 J | 22000   | 4400   | ug/kg | SW846 8260D |
| Toluene             |  | 734000  | 89000   | 44000  | ug/kg | SW846 8260D |
| Trichloroethylene   |  | 7590 J  | 22000   | 4400   | ug/kg | SW846 8260D |
| Xylene (total)      |  | 7040000 | 6700000 | 930000 | ug/kg | SW846 8260D |



## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80928-13 A2-10 (3')**

|                        |        |      |     |       |             |
|------------------------|--------|------|-----|-------|-------------|
| Chlorobenzene          | 1160   | 220  | 44  | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene    | 1520   | 220  | 44  | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene    | 286    | 220  | 44  | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene    | 1080   | 220  | 51  | ug/kg | SW846 8260D |
| Ethylbenzene           | 16000  | 2200 | 440 | ug/kg | SW846 8260D |
| Isopropylbenzene       | 775    | 220  | 44  | ug/kg | SW846 8260D |
| Methylcyclohexane      | 237    | 220  | 75  | ug/kg | SW846 8260D |
| Toluene                | 6850   | 890  | 440 | ug/kg | SW846 8260D |
| 1,2,4-Trichlorobenzene | 93.2 J | 220  | 44  | ug/kg | SW846 8260D |
| Xylene (total)         | 60500  | 6700 | 930 | ug/kg | SW846 8260D |

**FA80928-14 A2-10 (6')**

|                     |        |     |     |       |             |
|---------------------|--------|-----|-----|-------|-------------|
| Chlorobenzene       | 155 J  | 210 | 42  | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene | 53.8 J | 210 | 48  | ug/kg | SW846 8260D |
| Ethylbenzene        | 1870   | 210 | 42  | ug/kg | SW846 8260D |
| Isopropylbenzene    | 136 J  | 210 | 42  | ug/kg | SW846 8260D |
| Methylcyclohexane   | 95.0 J | 210 | 71  | ug/kg | SW846 8260D |
| Toluene             | 1560   | 830 | 420 | ug/kg | SW846 8260D |
| Xylene (total)      | 5540   | 620 | 87  | ug/kg | SW846 8260D |

**FA80928-15 A2-13 (3')**

|                     |       |     |      |       |             |
|---------------------|-------|-----|------|-------|-------------|
| Acetone             | 293   | 160 | 79   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)    | 32.0  | 20  | 5.7  | ug/kg | SW846 8260D |
| Carbon Disulfide    | 7.0   | 3.9 | 0.79 | ug/kg | SW846 8260D |
| Chlorobenzene       | 3.8 J | 3.9 | 0.79 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene | 4.6   | 3.9 | 0.79 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene | 4.5   | 3.9 | 0.91 | ug/kg | SW846 8260D |
| Ethylbenzene        | 47.8  | 3.9 | 0.79 | ug/kg | SW846 8260D |
| Isopropylbenzene    | 9.0   | 3.9 | 0.79 | ug/kg | SW846 8260D |
| Methylcyclohexane   | 2.9 J | 3.9 | 1.3  | ug/kg | SW846 8260D |
| Styrene             | 1.0 J | 3.9 | 0.79 | ug/kg | SW846 8260D |
| Toluene             | 28.2  | 16  | 7.9  | ug/kg | SW846 8260D |
| Xylene (total)      | 106   | 12  | 1.7  | ug/kg | SW846 8260D |

**FA80928-16 A2-13 (6')**

|                  |       |     |      |       |             |
|------------------|-------|-----|------|-------|-------------|
| Acetone          | 179   | 160 | 78   | ug/kg | SW846 8260D |
| Benzene          | 18.5  | 3.9 | 0.95 | ug/kg | SW846 8260D |
| 2-Butanone (MEK) | 22.2  | 19  | 5.7  | ug/kg | SW846 8260D |
| Carbon Disulfide | 2.7 J | 3.9 | 0.78 | ug/kg | SW846 8260D |
| Chlorobenzene    | 31.7  | 3.9 | 0.78 | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

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| Lab Sample ID                | Client Sample ID | Result/<br>Analyte       | RL      | MDL   | Units | Method            |
|------------------------------|------------------|--------------------------|---------|-------|-------|-------------------|
|                              |                  | Cyclohexane              | 5.2     | 3.9   | 0.97  | ug/kg SW846 8260D |
|                              |                  | 1,2-Dichlorobenzene      | 2.6 J   | 3.9   | 0.78  | ug/kg SW846 8260D |
|                              |                  | 1,3-Dichlorobenzene      | 1.8 J   | 3.9   | 0.78  | ug/kg SW846 8260D |
|                              |                  | 1,4-Dichlorobenzene      | 8.1     | 3.9   | 0.90  | ug/kg SW846 8260D |
|                              |                  | Ethylbenzene             | 86.0    | 3.9   | 0.78  | ug/kg SW846 8260D |
|                              |                  | Isopropylbenzene         | 59.5    | 3.9   | 0.78  | ug/kg SW846 8260D |
|                              |                  | Methylcyclohexane        | 45.3    | 3.9   | 1.3   | ug/kg SW846 8260D |
|                              |                  | Toluene                  | 44.7    | 16    | 7.8   | ug/kg SW846 8260D |
|                              |                  | Xylene (total)           | 144     | 12    | 1.6   | ug/kg SW846 8260D |
| <b>FA80928-17 A2-14 (3')</b> |                  |                          |         |       |       |                   |
|                              |                  | Ethylbenzene             | 3200    | 260   | 52    | ug/kg SW846 8260D |
|                              |                  | Isopropylbenzene         | 332     | 260   | 52    | ug/kg SW846 8260D |
|                              |                  | Methylcyclohexane        | 219 J   | 260   | 88    | ug/kg SW846 8260D |
|                              |                  | Xylene (total)           | 2050    | 770   | 110   | ug/kg SW846 8260D |
| <b>FA80928-18 A2-14 (6')</b> |                  |                          |         |       |       |                   |
|                              |                  | Benzene                  | 8.5     | 3.6   | 0.88  | ug/kg SW846 8260D |
|                              |                  | Carbon Disulfide         | 0.89 J  | 3.6   | 0.72  | ug/kg SW846 8260D |
|                              |                  | Cyclohexane              | 4.0     | 3.6   | 0.90  | ug/kg SW846 8260D |
|                              |                  | 1,2-Dichlorobenzene      | 2.1 J   | 3.6   | 0.72  | ug/kg SW846 8260D |
|                              |                  | Ethylbenzene             | 8.9     | 3.6   | 0.72  | ug/kg SW846 8260D |
|                              |                  | Isopropylbenzene         | 134     | 3.6   | 0.72  | ug/kg SW846 8260D |
|                              |                  | Methylcyclohexane        | 90.8    | 3.6   | 1.2   | ug/kg SW846 8260D |
|                              |                  | Xylene (total)           | 4.3 J   | 11    | 1.5   | ug/kg SW846 8260D |
| <b>FA80928-19 A2-3 (3')</b>  |                  |                          |         |       |       |                   |
|                              |                  | Benzene                  | 259     | 230   | 56    | ug/kg SW846 8260D |
|                              |                  | 2-Butanone (MEK)         | 2670    | 1200  | 330   | ug/kg SW846 8260D |
|                              |                  | Chlorobenzene            | 71.2 J  | 230   | 46    | ug/kg SW846 8260D |
|                              |                  | 1,2-Dichlorobenzene      | 493     | 230   | 46    | ug/kg SW846 8260D |
|                              |                  | 1,4-Dichlorobenzene      | 119 J   | 230   | 53    | ug/kg SW846 8260D |
|                              |                  | cis-1,2-Dichloroethylene | 817     | 230   | 64    | ug/kg SW846 8260D |
|                              |                  | Ethylbenzene             | 2920    | 230   | 46    | ug/kg SW846 8260D |
|                              |                  | Isopropylbenzene         | 68.9 J  | 230   | 46    | ug/kg SW846 8260D |
|                              |                  | Toluene                  | 17800   | 9200  | 4600  | ug/kg SW846 8260D |
|                              |                  | Xylene (total)           | 21600   | 690   | 97    | ug/kg SW846 8260D |
| <b>FA80928-20 A2-3 (5')</b>  |                  |                          |         |       |       |                   |
|                              |                  | Benzene                  | 27400   | 4800  | 1200  | ug/kg SW846 8260D |
|                              |                  | 2-Butanone (MEK)         | 10800 J | 24000 | 7100  | ug/kg SW846 8260D |

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

2

| Lab Sample ID | Client Sample ID | Result/<br>Qual          | RL       | MDL     | Units   | Method |             |
|---------------|------------------|--------------------------|----------|---------|---------|--------|-------------|
|               |                  | Cyclohexane              | 20800    | 4800    | 1200    | ug/kg  | SW846 8260D |
|               |                  | 1,2-Dichlorobenzene      | 146000   | 4800    | 970     | ug/kg  | SW846 8260D |
|               |                  | 1,3-Dichlorobenzene      | 11600    | 4800    | 970     | ug/kg  | SW846 8260D |
|               |                  | 1,4-Dichlorobenzene      | 30900    | 4800    | 1100    | ug/kg  | SW846 8260D |
|               |                  | cis-1,2-Dichloroethylene | 46700    | 4800    | 1300    | ug/kg  | SW846 8260D |
|               |                  | Ethylbenzene             | 2270000  | 120000  | 24000   | ug/kg  | SW846 8260D |
|               |                  | Isopropylbenzene         | 90600    | 4800    | 970     | ug/kg  | SW846 8260D |
|               |                  | Methylcyclohexane        | 17900    | 4800    | 1600    | ug/kg  | SW846 8260D |
|               |                  | Styrene                  | 57900    | 4800    | 970     | ug/kg  | SW846 8260D |
|               |                  | Toluene                  | 6270000  | 4800000 | 2400000 | ug/kg  | SW846 8260D |
|               |                  | 1,1,1-Trichloroethane    | 3010 J   | 4800    | 970     | ug/kg  | SW846 8260D |
|               |                  | Trichloroethylene        | 31300    | 4800    | 970     | ug/kg  | SW846 8260D |
|               |                  | Xylene (total)           | 20700000 | 3600000 | 510000  | ug/kg  | SW846 8260D |

### FA80928-21 A2-6 (3')

|  |  |                             |        |      |      |       |             |
|--|--|-----------------------------|--------|------|------|-------|-------------|
|  |  | Benzene                     | 361    | 210  | 51   | ug/kg | SW846 8260D |
|  |  | 2-Butanone (MEK)            | 2290   | 1000 | 310  | ug/kg | SW846 8260D |
|  |  | Chlorobenzene               | 341    | 210  | 42   | ug/kg | SW846 8260D |
|  |  | 1,2-Dichlorobenzene         | 938    | 210  | 42   | ug/kg | SW846 8260D |
|  |  | 1,3-Dichlorobenzene         | 73.7 J | 210  | 42   | ug/kg | SW846 8260D |
|  |  | 1,4-Dichlorobenzene         | 230    | 210  | 48   | ug/kg | SW846 8260D |
|  |  | cis-1,2-Dichloroethylene    | 3990   | 210  | 58   | ug/kg | SW846 8260D |
|  |  | Ethylbenzene                | 3340   | 210  | 42   | ug/kg | SW846 8260D |
|  |  | Isopropylbenzene            | 79.9 J | 210  | 42   | ug/kg | SW846 8260D |
|  |  | 4-Methyl-2-pentanone (MIBK) | 416 J  | 1000 | 310  | ug/kg | SW846 8260D |
|  |  | Styrene                     | 52.7 J | 210  | 42   | ug/kg | SW846 8260D |
|  |  | Toluene                     | 25200  | 8400 | 4200 | ug/kg | SW846 8260D |
|  |  | Vinyl Chloride              | 133 J  | 210  | 42   | ug/kg | SW846 8260D |
|  |  | Xylene (total)              | 28700  | 6300 | 880  | ug/kg | SW846 8260D |

### FA80928-22 A2-6 (5')

|  |  |                          |         |         |        |       |             |
|--|--|--------------------------|---------|---------|--------|-------|-------------|
|  |  | Benzene                  | 11900 J | 25000   | 6000   | ug/kg | SW846 8260D |
|  |  | Chlorobenzene            | 20400 J | 25000   | 4900   | ug/kg | SW846 8260D |
|  |  | Cyclohexane              | 8660 J  | 25000   | 6200   | ug/kg | SW846 8260D |
|  |  | 1,2-Dichlorobenzene      | 129000  | 25000   | 4900   | ug/kg | SW846 8260D |
|  |  | 1,3-Dichlorobenzene      | 9070 J  | 25000   | 4900   | ug/kg | SW846 8260D |
|  |  | 1,4-Dichlorobenzene      | 25500   | 25000   | 5700   | ug/kg | SW846 8260D |
|  |  | cis-1,2-Dichloroethylene | 93500   | 25000   | 6800   | ug/kg | SW846 8260D |
|  |  | Ethylbenzene             | 859000  | 25000   | 4900   | ug/kg | SW846 8260D |
|  |  | Isopropylbenzene         | 30900   | 25000   | 4900   | ug/kg | SW846 8260D |
|  |  | Methylcyclohexane        | 12900 J | 25000   | 8400   | ug/kg | SW846 8260D |
|  |  | Styrene                  | 34400   | 25000   | 4900   | ug/kg | SW846 8260D |
|  |  | Toluene                  | 4230000 | 2000000 | 980000 | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA80928  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/17/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

|                       |  |         |         |        |       |             |
|-----------------------|--|---------|---------|--------|-------|-------------|
| 1,1,1-Trichloroethane |  | 8180 J  | 25000   | 4900   | ug/kg | SW846 8260D |
| Trichloroethylene     |  | 88100   | 25000   | 4900   | ug/kg | SW846 8260D |
| Xylene (total)        |  | 8510000 | 1500000 | 210000 | ug/kg | SW846 8260D |

### FA80928-23 A2-7 (3')

|                          |  |        |      |     |       |             |
|--------------------------|--|--------|------|-----|-------|-------------|
| Benzene                  |  | 63.4 J | 250  | 62  | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         |  | 2410   | 1300 | 370 | ug/kg | SW846 8260D |
| Chlorobenzene            |  | 357    | 250  | 51  | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 1360   | 250  | 51  | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 111 J  | 250  | 51  | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 323    | 250  | 58  | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 1070   | 250  | 70  | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 2380   | 250  | 51  | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 60.0 J | 250  | 51  | ug/kg | SW846 8260D |
| Toluene                  |  | 7530   | 1000 | 510 | ug/kg | SW846 8260D |
| Xylene (total)           |  | 22600  | 760  | 110 | ug/kg | SW846 8260D |

### FA80928-24 A2-7 (5')

|                          |  |           |         |        |       |             |
|--------------------------|--|-----------|---------|--------|-------|-------------|
| Chlorobenzene            |  | 32200     | 23000   | 4600   | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 112000    | 23000   | 4600   | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      |  | 7950 J    | 23000   | 4600   | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      |  | 21000 J   | 23000   | 5300   | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 57200     | 23000   | 6400   | ug/kg | SW846 8260D |
| Ethylbenzene             |  | 697000    | 23000   | 4600   | ug/kg | SW846 8260D |
| Isopropylbenzene         |  | 26700     | 23000   | 4600   | ug/kg | SW846 8260D |
| Styrene                  |  | 9700 J    | 23000   | 4600   | ug/kg | SW846 8260D |
| Toluene                  |  | 1540000 J | 1800000 | 920000 | ug/kg | SW846 8260D |
| Xylene (total)           |  | 7950000   | 1400000 | 190000 | ug/kg | SW846 8260D |

Sample Results

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Report of Analysis

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## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-1          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 83.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12038.D | 1  | 11/19/20 18:33 | SP | n/a       | n/a        | V3C506           |
| Run #2 | 3C12056.D | 1  | 11/20/20 13:47 | SP | n/a       | n/a        | V3C507           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.56 g         | 5.0 ml       |                  |
| Run #2 | 8.24 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result            | RL  | MDL  | Units | Q |
|------------|--------------------------------------|-------------------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 312               | 160 | 80   | ug/kg |   |
| 71-43-2    | Benzene                              | 40.5              | 4.0 | 0.97 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                | 4.0 | 0.80 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                | 4.0 | 0.80 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 29.6              | 20  | 5.8  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 2.3               | 4.0 | 0.80 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND                | 4.0 | 0.81 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 116               | 4.0 | 0.80 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                | 4.0 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                | 4.0 | 1.1  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 12.8              | 4.0 | 0.99 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                | 4.0 | 0.80 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                | 4.0 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                | 4.0 | 0.80 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                | 4.0 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 24.8              | 4.0 | 0.80 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 4.7               | 4.0 | 0.80 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 57.5              | 4.0 | 0.92 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | 1.8               | 4.0 | 1.4  | ug/kg | J |
| 107-06-2   | 1,2-Dichloroethane                   | ND                | 4.0 | 0.80 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                | 4.0 | 0.80 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 3.5               | 4.0 | 1.1  | ug/kg | J |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                | 4.0 | 0.80 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                | 4.0 | 0.80 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                | 4.0 | 0.80 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                | 4.0 | 0.80 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1490 <sup>c</sup> | 230 | 47   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                | 4.0 | 1.1  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                | 20  | 6.0  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 17.1              | 4.0 | 0.80 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                | 20  | 7.1  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                | 4.0 | 1.6  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-1          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 83.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result            | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|-------------------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                | 4.0 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 5.7               | 4.0 | 1.4  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND                | 16  | 8.8  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                | 20  | 6.0  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                | 4.0 | 0.80 | ug/kg |   |
| 100-42-5  | Styrene                             | ND                | 4.0 | 0.80 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                | 4.0 | 0.80 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                | 4.0 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                             | 90.8              | 16  | 8.0  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                | 4.0 | 0.80 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                | 4.0 | 0.80 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                | 4.0 | 0.80 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND                | 4.0 | 0.80 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND                | 4.0 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 2.5               | 4.0 | 0.80 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | 4580 <sup>c</sup> | 700 | 98   | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 97%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   | 101%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   | 91%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 88%    | 90%    | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits high, sample was ND.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-2          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 85.9    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12039.D | 1  | 11/19/20 19:00 | SP | n/a       | n/a        | V3C506           |
| Run #2 | 3C12057.D | 1  | 11/20/20 14:15 | SP | n/a       | n/a        | V3C507           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.16 g         | 5.0 ml       |                  |
| Run #2 | 7.89 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result            | RL  | MDL  | Units | Q |
|------------|--------------------------------------|-------------------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 71.7              | 140 | 71   | ug/kg | J |
| 71-43-2    | Benzene                              | 15.7              | 3.6 | 0.87 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                | 3.6 | 0.71 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                | 3.6 | 0.71 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 7.4               | 18  | 5.2  | ug/kg | J |
| 75-15-0    | Carbon Disulfide                     | ND                | 3.6 | 0.71 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                | 3.6 | 0.73 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 33.6              | 3.6 | 0.71 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                | 3.6 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                | 3.6 | 0.95 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 4.6               | 3.6 | 0.89 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                | 3.6 | 0.71 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                | 3.6 | 1.4  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                | 3.6 | 0.71 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                | 3.6 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 19.1              | 3.6 | 0.71 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 2.3               | 3.6 | 0.71 | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 13.8              | 3.6 | 0.82 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                | 3.6 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                | 3.6 | 0.71 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                | 3.6 | 0.71 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 3.8               | 3.6 | 0.98 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                | 3.6 | 0.71 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                | 3.6 | 0.71 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                | 3.6 | 0.71 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                | 3.6 | 0.71 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1050 <sup>c</sup> | 230 | 45   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                | 3.6 | 0.94 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                | 18  | 5.3  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 5.1               | 3.6 | 0.71 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                | 18  | 6.4  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                | 3.6 | 1.4  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (5')       |                                |
| <b>Lab Sample ID:</b> FA80928-2          | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 85.9    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result            | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|-------------------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                | 3.6 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 2.4               | 3.6 | 1.2  | ug/kg | J |
| 75-09-2   | Methylene Chloride                  | ND                | 14  | 7.8  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                | 18  | 5.3  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                | 3.6 | 0.71 | ug/kg |   |
| 100-42-5  | Styrene                             | ND                | 3.6 | 0.71 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                | 3.6 | 0.71 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                | 3.6 | 0.91 | ug/kg |   |
| 108-88-3  | Toluene                             | 123               | 14  | 7.1  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                | 3.6 | 0.71 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                | 3.6 | 0.71 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                | 3.6 | 0.71 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND                | 3.6 | 0.71 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND                | 3.6 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 0.79              | 3.6 | 0.71 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | 4160 <sup>c</sup> | 680 | 95   | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   | 97%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   | 100%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 93%    | 90%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%    | 90%    | 71-133% |

(a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

(d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-2 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-3          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.0    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12040.D | 1  | 11/19/20 19:26 | SP | n/a       | n/a        | V3C506           |
| Run #2 | 3C12058.D | 1  | 11/20/20 14:41 | SP | n/a       | n/a        | V3C507           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.80 g         | 5.0 ml       |                  |
| Run #2 | 7.63 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result            | RL  | MDL  | Units | Q |
|------------|--------------------------------------|-------------------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 231               | 130 | 66   | ug/kg |   |
| 71-43-2    | Benzene                              | 87.7              | 3.3 | 0.81 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                | 3.3 | 0.66 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                | 3.3 | 0.66 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 31.4              | 17  | 4.8  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 2.5               | 3.3 | 0.66 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND                | 3.3 | 0.67 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                | 3.3 | 0.66 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                | 3.3 | 1.3  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                | 3.3 | 0.88 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 16.3              | 3.3 | 0.83 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                | 3.3 | 0.66 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                | 3.3 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                | 3.3 | 0.66 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                | 3.3 | 1.3  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 333 <sup>c</sup>  | 230 | 46   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 12.4              | 3.3 | 0.66 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 38.1              | 3.3 | 0.76 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | 1.8               | 3.3 | 1.2  | ug/kg | J |
| 107-06-2   | 1,2-Dichloroethane                   | ND                | 3.3 | 0.66 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                | 3.3 | 0.66 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 4.9               | 3.3 | 0.91 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                | 3.3 | 0.66 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                | 3.3 | 0.66 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                | 3.3 | 0.66 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                | 3.3 | 0.66 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 3450 <sup>c</sup> | 230 | 46   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                | 3.3 | 0.87 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                | 17  | 5.0  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 55.1              | 3.3 | 0.66 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                | 17  | 5.9  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                | 3.3 | 1.3  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-2 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-3          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.0    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result             | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------------------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                 | 3.3 | 1.3  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 8.5                | 3.3 | 1.1  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND                 | 13  | 7.3  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                 | 17  | 5.0  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                 | 3.3 | 0.66 | ug/kg |   |
| 100-42-5  | Styrene                             | ND                 | 3.3 | 0.66 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                 | 3.3 | 0.66 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                 | 3.3 | 0.85 | ug/kg |   |
| 108-88-3  | Toluene                             | 2080 <sup>c</sup>  | 920 | 460  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                 | 3.3 | 0.66 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                 | 3.3 | 0.66 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                 | 3.3 | 0.66 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND                 | 3.3 | 0.66 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND                 | 3.3 | 1.3  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 1.9                | 3.3 | 0.66 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | 11300 <sup>c</sup> | 690 | 97   | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 96%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   | 102%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 122%   | 93%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    | 89%    | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits high, sample was ND.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-2 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-4          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12041.D | 1  | 11/19/20 19:52 | SP | n/a       | n/a        | V3C506           |
| Run #2 | 3C12059.D | 1  | 11/20/20 15:08 | SP | n/a       | n/a        | V3C507           |
| Run #3 | 3C12076.D | 1  | 11/20/20 22:37 | SP | n/a       | n/a        | V3C507           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.91 g         | 5.0 ml       | 100 ul           |
| Run #2 | 7.91 g         | 5.0 ml       | 10.0 ul          |
| Run #3 | 7.91 g         | 5.0 ml       | 1.0 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result             | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------------------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND                 | 9400 | 4700 | ug/kg |   |
| 71-43-2    | Benzene                              | 344                | 230  | 57   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                 | 230  | 47   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                 | 230  | 47   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                 | 1200 | 340  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND                 | 230  | 47   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                 | 230  | 48   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                 | 230  | 47   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                 | 230  | 94   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                 | 230  | 62   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 302                | 230  | 59   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                 | 230  | 47   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                 | 230  | 90   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                 | 230  | 47   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                 | 230  | 94   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 11300 <sup>c</sup> | 2300 | 470  | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 924                | 230  | 47   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 2570               | 230  | 54   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                 | 230  | 83   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                 | 230  | 47   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                 | 230  | 47   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND                 | 230  | 65   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                 | 230  | 47   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                 | 230  | 47   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                 | 230  | 47   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                 | 230  | 47   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 78700 <sup>c</sup> | 2300 | 470  | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                 | 230  | 62   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                 | 1200 | 350  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 3170               | 230  | 47   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

### Report of Analysis

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3

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-2 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-4          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result              | RL    | MDL  | Units | Q |
|-----------|-------------------------------------|---------------------|-------|------|-------|---|
| 79-20-9   | Methyl Acetate                      | ND                  | 1200  | 420  | ug/kg |   |
| 74-83-9   | Methyl Bromide                      | ND                  | 230   | 94   | ug/kg |   |
| 74-87-3   | Methyl Chloride                     | ND                  | 230   | 94   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 302                 | 230   | 80   | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND                  | 940   | 510  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                  | 1200  | 350  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                  | 230   | 47   | ug/kg |   |
| 100-42-5  | Styrene                             | ND                  | 230   | 47   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                  | 230   | 47   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                  | 230   | 60   | ug/kg |   |
| 108-88-3  | Toluene                             | 25900 <sup>c</sup>  | 9400  | 4700 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | 215                 | 230   | 47   | ug/kg | J |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                  | 230   | 47   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                  | 230   | 47   | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND                  | 230   | 47   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND                  | 230   | 94   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND                  | 230   | 47   | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 483000 <sup>e</sup> | 70000 | 9800 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3 | Limits  |
|------------|-----------------------|--------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 91%    | 96%    | 100%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%    | 97%    | 107%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 112%   | 98%    | 90%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    | 90%    | 90%    | 71-133% |

(a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

(d) Associated CCV outside of control limits high, sample was ND.

(e) Result is from Run# 3

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-4 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-5          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 87.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12042.D | 1  | 11/19/20 20:18 | SP | n/a       | n/a        | V3C506           |
| Run #2 | 3C12060.D | 1  | 11/20/20 15:34 | SP | n/a       | n/a        | V3C507           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.63 g         | 5.0 ml       | 100 ul           |
| Run #2 | 6.63 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result             | RL    | MDL  | Units | Q |
|------------|--------------------------------------|--------------------|-------|------|-------|---|
| 67-64-1    | Acetone                              | ND                 | 10000 | 5100 | ug/kg |   |
| 71-43-2    | Benzene                              | 321                | 250   | 62   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                 | 250   | 51   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                 | 250   | 51   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 7040               | 1300  | 370  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND                 | 250   | 51   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                 | 250   | 52   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                 | 250   | 51   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                 | 250   | 100  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                 | 250   | 67   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 166                | 250   | 63   | ug/kg | J |
| 124-48-1   | Dibromochloromethane                 | ND                 | 250   | 51   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                 | 250   | 97   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                 | 250   | 51   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                 | 250   | 100  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 19700 <sup>c</sup> | 2500  | 510  | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 1550               | 250   | 51   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 4060               | 250   | 58   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                 | 250   | 90   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                 | 250   | 51   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                 | 250   | 51   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 624                | 250   | 70   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                 | 250   | 51   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                 | 250   | 51   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                 | 250   | 51   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                 | 250   | 51   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 42700 <sup>c</sup> | 2500  | 510  | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                 | 250   | 67   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                 | 1300  | 380  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 1080               | 250   | 51   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                 | 1300  | 450  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                 | 250   | 100  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-4 (3')                | <b>Date Sampled:</b>   | 11/17/20 |
| <b>Lab Sample ID:</b>    | FA80928-5                | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 87.1     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result              | RL    | MDL  | Units | Q |
|-----------|-------------------------------------|---------------------|-------|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                  | 250   | 100  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 211                 | 250   | 86   | ug/kg | J |
| 75-09-2   | Methylene Chloride                  | ND                  | 1000  | 560  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                  | 1300  | 380  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                  | 250   | 51   | ug/kg |   |
| 100-42-5  | Styrene                             | ND                  | 250   | 51   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                  | 250   | 51   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                  | 250   | 65   | ug/kg |   |
| 108-88-3  | Toluene                             | 71000 <sup>c</sup>  | 10000 | 5100 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | 346                 | 250   | 51   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                  | 250   | 51   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                  | 250   | 51   | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND                  | 250   | 51   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND                  | 250   | 100  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND                  | 250   | 51   | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 242000 <sup>c</sup> | 7600  | 1100 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 93%    | 97%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 98%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 104%   | 93%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%    | 89%    | 71-133% |

(a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

(d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-4 (5')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-6          |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 76.0    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1              | 3C12077.D | 1  | 11/20/20 23:03 | SP | n/a       | n/a        | V3C507           |
| Run #2 <sup>a</sup> | 3C12043.D | 1  | 11/19/20 20:45 | SP | n/a       | n/a        | V3C506           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.32 g         | 5.0 ml       | 100 ul           |
| Run #2 | 8.30 g         | 5.0 ml       |                  |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL    | MDL  | Units | Q |
|------------|--------------------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 11000 | 5500 | ug/kg |   |
| 71-43-2    | Benzene                              | 74.9   | 280   | 67   | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND     | 280   | 55   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 280   | 55   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 1400  | 400  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 280   | 55   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 280   | 56   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 643    | 280   | 55   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>b</sup>            | ND     | 280   | 110  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 280   | 74   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 280   | 69   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 280   | 55   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 280   | 110  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 280   | 55   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 280   | 110  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 82.1   | 280   | 55   | ug/kg | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 280   | 55   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 280   | 64   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 280   | 98   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 280   | 55   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 280   | 55   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 280   | 76   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 280   | 55   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 280   | 55   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 280   | 55   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 280   | 55   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1670   | 280   | 55   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 280   | 73   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 1400  | 410  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 146    | 280   | 55   | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | ND     | 1400  | 490  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 280   | 110  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-4 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-6          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 76.0    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                             | Result | RL   | MDL | Units | Q |
|-----------|--------------------------------------|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                      | ND     | 280  | 110 | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | ND     | 280  | 94  | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND     | 1100 | 610 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND     | 1400 | 410 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>b</sup> | ND     | 280  | 55  | ug/kg |   |
| 100-42-5  | Styrene                              | ND     | 280  | 55  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND     | 280  | 55  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND     | 280  | 71  | ug/kg |   |
| 108-88-3  | Toluene                              | 704    | 1100 | 550 | ug/kg | J |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND     | 280  | 55  | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND     | 280  | 55  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND     | 280  | 55  | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND     | 280  | 55  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND     | 280  | 110 | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND     | 280  | 55  | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 11500  | 830  | 120 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2            | Limits  |
|------------|-----------------------|--------|-------------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    | 101%              | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   | 119%              | 72-135% |
| 2037-26-5  | Toluene-D8            | 91%    | 253% <sup>d</sup> | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    | 312% <sup>d</sup> | 71-133% |

(a) Confirmation run for surrogate recoveries.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(d) Outside control limits due to matrix interference.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-8 (3')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-7          |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 91.3    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12062.D  | 1  | 11/20/20 16:27 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098967.D | 1  | 11/21/20 15:40 | SP | n/a       | n/a        | VF3501           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.37 g         | 5.0 ml       | 100 ul           |
| Run #2 | 8.37 g         | 5.0 ml       | 25.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | 6750   | 7500 | 3700 | ug/kg | J |
| 71-43-2    | Benzene                              | 46.2   | 190  | 46   | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND     | 190  | 37   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 190  | 37   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 6400   | 940  | 270  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 190  | 37   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 190  | 38   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 190  | 37   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 190  | 75   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 190  | 50   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 190  | 47   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 190  | 37   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 190  | 72   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 190  | 37   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 190  | 75   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 556    | 190  | 37   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 190  | 37   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 84.7   | 190  | 43   | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 190  | 66   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 190  | 37   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 190  | 37   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 220    | 190  | 52   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 190  | 37   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 190  | 37   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 190  | 37   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 190  | 37   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 3230   | 190  | 37   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 190  | 49   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 940  | 280  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 84.7   | 190  | 37   | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | 492    | 940  | 330  | ug/kg | J |
| 74-83-9    | Methyl Bromide                       | ND     | 190  | 75   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-8 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-7          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 91.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result             | RL   | MDL  | Units | Q |
|-----------|--------------------------------------|--------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                      | ND                 | 190  | 75   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | ND                 | 190  | 64   | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                 | 750  | 410  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                 | 940  | 280  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                 | 190  | 37   | ug/kg |   |
| 100-42-5  | Styrene                              | ND                 | 190  | 37   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                 | 190  | 37   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                 | 190  | 48   | ug/kg |   |
| 108-88-3  | Toluene                              | 11200 <sup>c</sup> | 3000 | 1500 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                 | 190  | 37   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND                 | 190  | 37   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                 | 190  | 37   | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND                 | 190  | 37   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND                 | 190  | 75   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                 | 190  | 37   | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 36400 <sup>c</sup> | 2200 | 310  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    | 108%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   | 99%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 93%    | 103%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 88%    | 87%    | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-8 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-8          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12063.D  | 1   | 11/20/20 16:54 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098968.D | 10  | 11/21/20 16:04 | SP | n/a       | n/a        | VF3501           |
| Run #3 | 3C12220.D  | 100 | 11/27/20 15:12 | SP | n/a       | n/a        | V3C513           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.12 g         | 5.0 ml       | 5.0 ul           |
| Run #2 | 8.12 g         | 5.0 ml       | 2.0 ul           |
| Run #3 | 8.12 g         | 5.0 ml       | 2.0 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result               | RL     | MDL   | Units | Q |
|------------|--------------------------------------|----------------------|--------|-------|-------|---|
| 67-64-1    | Acetone                              | ND                   | 180000 | 91000 | ug/kg |   |
| 71-43-2    | Benzene                              | 4000                 | 4600   | 1100  | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND                   | 4600   | 910   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                   | 4600   | 910   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 7390                 | 23000  | 6600  | ug/kg | J |
| 75-15-0    | Carbon Disulfide                     | ND                   | 4600   | 910   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                   | 4600   | 930   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                   | 4600   | 910   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                   | 4600   | 1800  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                   | 4600   | 1200  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 3810                 | 4600   | 1100  | ug/kg | J |
| 124-48-1   | Dibromochloromethane                 | ND                   | 4600   | 910   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                   | 4600   | 1800  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                   | 4600   | 910   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                   | 4600   | 1800  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 50300                | 4600   | 910   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 3710                 | 4600   | 910   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 10100                | 4600   | 1000  | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                   | 4600   | 1600  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                   | 4600   | 910   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                   | 4600   | 910   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 10300                | 4600   | 1300  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                   | 4600   | 910   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                   | 4600   | 910   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                   | 4600   | 910   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                   | 4600   | 910   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1260000 <sup>c</sup> | 110000 | 23000 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                   | 4600   | 1200  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                   | 23000  | 6800  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 28600                | 4600   | 910   | ug/kg |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-8 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-8          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result                | RL      | MDL    | Units | Q |
|-----------|--------------------------------------|-----------------------|---------|--------|-------|---|
| 79-20-9   | Methyl Acetate                       | ND                    | 23000   | 8100   | ug/kg |   |
| 74-83-9   | Methyl Bromide                       | ND                    | 4600    | 1800   | ug/kg |   |
| 74-87-3   | Methyl Chloride                      | ND                    | 4600    | 1800   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 9440                  | 4600    | 1600   | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                    | 18000   | 10000  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                    | 23000   | 6800   | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                    | 4600    | 910    | ug/kg |   |
| 100-42-5  | Styrene                              | ND                    | 4600    | 910    | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                    | 4600    | 910    | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                    | 4600    | 1200   | ug/kg |   |
| 108-88-3  | Toluene                              | 2200000 <sup>c</sup>  | 460000  | 230000 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                    | 4600    | 910    | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | 938                   | 4600    | 910    | ug/kg | J |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                    | 4600    | 910    | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | 1670                  | 4600    | 910    | ug/kg | J |
| 75-69-4   | Trichlorofluoromethane               | ND                    | 4600    | 1800   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                    | 4600    | 910    | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 10400000 <sup>d</sup> | 3400000 | 480000 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3 | Limits  |
|------------|-----------------------|--------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    | 103%   | 99%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    | 96%    | 107%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 107%   | 102%   | 108%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    | 91%    | 99%    | 71-133% |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.
- (c) Result is from Run# 2
- (d) Result is from Run# 3

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-5 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-9          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 88.8    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | F0098969.D | 1  | 11/21/20 16:28 | SP | n/a       | n/a        | VF3501           |
| Run #2              | 3C12221.D  | 1  | 11/27/20 15:38 | SP | n/a       | n/a        | V3C513           |
| Run #3 <sup>a</sup> | 3C12064.D  | 1  | 11/20/20 17:20 | SP | n/a       | n/a        | V3C507           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.28 g         | 5.0 ml       | 5.0 ul           |
| Run #2 | 8.28 g         | 5.0 ml       | 1.0 ul           |
| Run #3 | 8.28 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL     | MDL   | Units | Q |
|------------|--------------------------------------|--------|--------|-------|-------|---|
| 67-64-1    | Acetone                              | ND     | 160000 | 81000 | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 4000   | 980   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 4000   | 810   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 4000   | 810   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 20000  | 5900  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 4000   | 810   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 4000   | 820   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 4000   | 810   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>b</sup>            | ND     | 4000   | 1600  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 4000   | 1100  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 4000   | 1000  | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 4000   | 810   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 4000   | 1500  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 4000   | 810   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 4000   | 1600  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 38800  | 4000   | 810   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 3150   | 4000   | 810   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 8490   | 4000   | 930   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 4000   | 1400  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 4000   | 810   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 4000   | 810   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 4000   | 1100  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 4000   | 810   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 4000   | 810   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 4000   | 810   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 4000   | 810   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 95800  | 4000   | 810   | ug/kg |   |
| 76-13-1    | Freon 113 <sup>d</sup>               | ND     | 4000   | 1100  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 20000  | 6000  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 2740   | 4000   | 810   | ug/kg | J |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-5 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-9          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 88.8    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                        | Result              | RL    | MDL  | Units | Q |
|-----------|---------------------------------|---------------------|-------|------|-------|---|
| 79-20-9   | Methyl Acetate                  | ND                  | 20000 | 7200 | ug/kg |   |
| 74-83-9   | Methyl Bromide                  | ND                  | 4000  | 1600 | ug/kg |   |
| 74-87-3   | Methyl Chloride                 | ND                  | 4000  | 1600 | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | ND                  | 4000  | 1400 | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>e</sup> | ND                  | 16000 | 8900 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND                  | 20000 | 6000 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND                  | 4000  | 810  | ug/kg |   |
| 100-42-5  | Styrene                         | ND                  | 4000  | 810  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND                  | 4000  | 810  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND                  | 4000  | 1000 | ug/kg |   |
| 108-88-3  | Toluene                         | 151000              | 16000 | 8100 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND                  | 4000  | 810  | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND                  | 4000  | 810  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND                  | 4000  | 810  | ug/kg |   |
| 79-01-6   | Trichloroethylene               | ND                  | 4000  | 810  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND                  | 4000  | 1600 | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | ND                  | 4000  | 810  | ug/kg |   |
| 1330-20-7 | Xylene (total)                  | 962000 <sup>f</sup> | 60000 | 8500 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3            | Limits  |
|------------|-----------------------|--------|--------|-------------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   | 97%    | 92%               | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    | 104%   | 100%              | 72-135% |
| 2037-26-5  | Toluene-D8            | 102%   | 109%   | 129% <sup>g</sup> | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 88%    | 97%    | 96%               | 71-133% |

(a) Confirmation run for surrogate recoveries.

(b) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low.

(d) Associated ICV outside control limits low.

(e) Associated CCV outside of control limits high, sample was ND.

(f) Result is from Run# 2

(g) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-5 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-10         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12065.D  | 1   | 11/20/20 17:47 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098970.D | 100 | 11/21/20 16:52 | SP | n/a       | n/a        | VF3501           |
| Run #3 | 3C12222.D  | 100 | 11/27/20 16:04 | SP | n/a       | n/a        | V3C513           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.24 g         | 5.0 ml       | 2.0 ul           |
| Run #2 | 8.24 g         | 5.0 ml       | 10.0 ul          |
| Run #3 | 8.24 g         | 5.0 ml       | 1.0 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result               | RL     | MDL    | Units | Q |
|------------|--------------------------------------|----------------------|--------|--------|-------|---|
| 67-64-1    | Acetone                              | ND                   | 450000 | 230000 | ug/kg |   |
| 71-43-2    | Benzene                              | 8510                 | 11000  | 2800   | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND                   | 11000  | 2300   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                   | 11000  | 2300   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                   | 57000  | 16000  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND                   | 11000  | 2300   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                   | 11000  | 2300   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                   | 11000  | 2300   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                   | 11000  | 4500   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                   | 11000  | 3000   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 10800                | 11000  | 2800   | ug/kg | J |
| 124-48-1   | Dibromochloromethane                 | ND                   | 11000  | 2300   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                   | 11000  | 4300   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                   | 11000  | 2300   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                   | 11000  | 4500   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 207000               | 11000  | 2300   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 16300                | 11000  | 2300   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 43400                | 11000  | 2600   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                   | 11000  | 4000   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                   | 11000  | 2300   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                   | 11000  | 2300   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 17700                | 11000  | 3100   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                   | 11000  | 2300   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                   | 11000  | 2300   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                   | 11000  | 2300   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                   | 11000  | 2300   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 4080000 <sup>c</sup> | 230000 | 45000  | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                   | 11000  | 3000   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                   | 57000  | 17000  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 53200                | 11000  | 2300   | ug/kg |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-5 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-10         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result                | RL      | MDL    | Units | Q |
|-----------|--------------------------------------|-----------------------|---------|--------|-------|---|
| 79-20-9   | Methyl Acetate                       | ND                    | 57000   | 20000  | ug/kg |   |
| 74-83-9   | Methyl Bromide                       | ND                    | 11000   | 4500   | ug/kg |   |
| 74-87-3   | Methyl Chloride                      | ND                    | 11000   | 4500   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 14300                 | 11000   | 3900   | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                    | 45000   | 25000  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                    | 57000   | 17000  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                    | 11000   | 2300   | ug/kg |   |
| 100-42-5  | Styrene                              | ND                    | 11000   | 2300   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                    | 11000   | 2300   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                    | 11000   | 2900   | ug/kg |   |
| 108-88-3  | Toluene                              | 6790000 <sup>c</sup>  | 910000  | 450000 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                    | 11000   | 2300   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND                    | 11000   | 2300   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                    | 11000   | 2300   | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | 5730                  | 11000   | 2300   | ug/kg | J |
| 75-69-4   | Trichlorofluoromethane               | ND                    | 11000   | 4500   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                    | 11000   | 2300   | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 20900000 <sup>d</sup> | 6800000 | 950000 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3 | Limits  |
|------------|-----------------------|--------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    | 100%   | 100%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   | 100%   | 108%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 105%   | 99%    | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%    | 91%    | 97%    | 71-133% |

- (a) Associated CCV outside of control limits high, sample was ND.
- (b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.
- (c) Result is from Run# 2
- (d) Result is from Run# 3

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-9 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-11         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 89.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12066.D  | 1  | 11/20/20 18:13 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098971.D | 1  | 11/21/20 17:16 | SP | n/a       | n/a        | VF3501           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.96 g         | 5.0 ml       | 100 ul           |
| Run #2 | 6.96 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result             | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------------------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND                 | 9200 | 4600 | ug/kg |   |
| 71-43-2    | Benzene                              | 96.3               | 230  | 56   | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND                 | 230  | 46   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                 | 230  | 46   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                 | 1100 | 330  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 55.5               | 230  | 46   | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND                 | 230  | 47   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 777                | 230  | 46   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                 | 230  | 92   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                 | 230  | 61   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 57.6               | 230  | 57   | ug/kg | J |
| 124-48-1   | Dibromochloromethane                 | ND                 | 230  | 46   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                 | 230  | 88   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                 | 230  | 46   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                 | 230  | 92   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 803                | 230  | 46   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 232                | 230  | 46   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 920                | 230  | 53   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                 | 230  | 81   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                 | 230  | 46   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                 | 230  | 46   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 360                | 230  | 63   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                 | 230  | 46   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                 | 230  | 46   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                 | 230  | 46   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                 | 230  | 46   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 14100 <sup>c</sup> | 2300 | 460  | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                 | 230  | 61   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                 | 1100 | 340  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 268                | 230  | 46   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                 | 1100 | 410  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                 | 230  | 92   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-9 (3')                | <b>Date Sampled:</b>   | 11/17/20 |
| <b>Lab Sample ID:</b>    | FA80928-11               | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 89.5     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result              | RL   | MDL  | Units | Q |
|-----------|--------------------------------------|---------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                      | ND                  | 230  | 92   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 179                 | 230  | 78   | ug/kg | J |
| 75-09-2   | Methylene Chloride                   | ND                  | 920  | 510  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                  | 1100 | 340  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                  | 230  | 46   | ug/kg |   |
| 100-42-5  | Styrene                              | ND                  | 230  | 46   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                  | 230  | 46   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                  | 230  | 59   | ug/kg |   |
| 108-88-3  | Toluene                              | 18500 <sup>c</sup>  | 9200 | 4600 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                  | 230  | 46   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND                  | 230  | 46   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                  | 230  | 46   | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND                  | 230  | 46   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND                  | 230  | 92   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                  | 230  | 46   | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 166000 <sup>c</sup> | 6900 | 970  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    | 104%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   | 100%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   | 99%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    | 91%    | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-9 (6')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-12         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1              | 3C12067.D  | 1   | 11/20/20 18:39 | SP | n/a       | n/a        | V3C507           |
| Run #2              | 3C12223.D  | 100 | 11/27/20 16:30 | SP | n/a       | n/a        | V3C513           |
| Run #3 <sup>a</sup> | F0098972.D | 100 | 11/21/20 17:40 | SP | n/a       | n/a        | VF3501           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.48 g         | 5.0 ml       | 1.0 ul           |
| Run #2 | 8.48 g         | 5.0 ml       | 1.0 ul           |
| Run #3 | 8.48 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL     | MDL    | Units | Q |
|------------|--------------------------------------|--------|--------|--------|-------|---|
| 67-64-1    | Acetone                              | ND     | 890000 | 440000 | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 22000  | 5400   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 22000  | 4400   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 22000  | 4400   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 110000 | 32000  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 22000  | 4400   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 22000  | 4500   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 22000  | 4400   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>b</sup>            | ND     | 22000  | 8900   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 22000  | 5900   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 22000  | 5500   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 22000  | 4400   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 22000  | 8500   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 22000  | 4400   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 22000  | 8900   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 63800  | 22000  | 4400   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 4720   | 22000  | 4400   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 13000  | 22000  | 5100   | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 22000  | 7900   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 22000  | 4400   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 22000  | 4400   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 22000  | 6100   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 22000  | 4400   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 22000  | 4400   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 22000  | 4400   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 22000  | 4400   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 523000 | 22000  | 4400   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 22000  | 5900   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 110000 | 33000  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 15400  | 22000  | 4400   | ug/kg | J |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-9 (6')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-12         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result               | RL      | MDL    | Units | Q |
|-----------|--------------------------------------|----------------------|---------|--------|-------|---|
| 79-20-9   | Methyl Acetate                       | ND                   | 110000  | 40000  | ug/kg |   |
| 74-83-9   | Methyl Bromide                       | ND                   | 22000   | 8900   | ug/kg |   |
| 74-87-3   | Methyl Chloride                      | ND                   | 22000   | 8900   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | ND                   | 22000   | 7500   | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                   | 89000   | 49000  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                   | 110000  | 33000  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>b</sup> | ND                   | 22000   | 4400   | ug/kg |   |
| 100-42-5  | Styrene                              | ND                   | 22000   | 4400   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                   | 22000   | 4400   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                   | 22000   | 5700   | ug/kg |   |
| 108-88-3  | Toluene                              | 734000               | 89000   | 44000  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                   | 22000   | 4400   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND                   | 22000   | 4400   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                   | 22000   | 4400   | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | 7590                 | 22000   | 4400   | ug/kg | J |
| 75-69-4   | Trichlorofluoromethane               | ND                   | 22000   | 8900   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                   | 22000   | 4400   | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 7040000 <sup>d</sup> | 6700000 | 930000 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3 | Limits  |
|------------|-----------------------|--------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    | 98%    | 109%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 104%   | 98%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    | 108%   | 108%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%    | 99%    | 82%    | 71-133% |

(a) Confirmation run.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-10 (3')      |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-13         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 87.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12068.D  | 1  | 11/20/20 19:06 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098973.D | 1  | 11/21/20 18:05 | SP | n/a       | n/a        | VF3501           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.67 g         | 5.0 ml       | 100 ul           |
| Run #2 | 7.67 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result             | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------------------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND                 | 8900 | 4400 | ug/kg |   |
| 71-43-2    | Benzene                              | ND                 | 220  | 54   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                 | 220  | 44   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                 | 220  | 44   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                 | 1100 | 320  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND                 | 220  | 44   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                 | 220  | 45   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 1160               | 220  | 44   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                 | 220  | 89   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                 | 220  | 59   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND                 | 220  | 55   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                 | 220  | 44   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                 | 220  | 85   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                 | 220  | 44   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                 | 220  | 89   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 1520               | 220  | 44   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 286                | 220  | 44   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 1080               | 220  | 51   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                 | 220  | 79   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                 | 220  | 44   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                 | 220  | 44   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND                 | 220  | 61   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                 | 220  | 44   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                 | 220  | 44   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                 | 220  | 44   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                 | 220  | 44   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 16000 <sup>c</sup> | 2200 | 440  | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                 | 220  | 59   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                 | 1100 | 330  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 775                | 220  | 44   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                 | 1100 | 400  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                 | 220  | 89   | ug/kg |   |

ND = Not detected      MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-10 (3')               | <b>Date Sampled:</b>   | 11/17/20 |
| <b>Lab Sample ID:</b>    | FA80928-13               | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 87.5     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result             | RL   | MDL | Units | Q |
|-----------|--------------------------------------|--------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                      | ND                 | 220  | 89  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 237                | 220  | 75  | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                 | 890  | 490 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                 | 1100 | 330 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                 | 220  | 44  | ug/kg |   |
| 100-42-5  | Styrene                              | ND                 | 220  | 44  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                 | 220  | 44  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                 | 220  | 57  | ug/kg |   |
| 108-88-3  | Toluene                              | 6850               | 890  | 440 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | 93.2               | 220  | 44  | ug/kg | J |
| 71-55-6   | 1,1,1-Trichloroethane                | ND                 | 220  | 44  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                 | 220  | 44  | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND                 | 220  | 44  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND                 | 220  | 89  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                 | 220  | 44  | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 60500 <sup>c</sup> | 6700 | 930 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    | 105%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 97%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 104%   | 101%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 90%    | 91%    | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-10 (6')      |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-14         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 85.6    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12069.D | 1  | 11/20/20 19:32 | SP | n/a       | n/a        | V3C507           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.82 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 8300 | 4200 | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 210  | 51   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 210  | 42   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 210  | 42   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 1000 | 300  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 210  | 42   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 210  | 42   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 155    | 210  | 42   | ug/kg | J |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 210  | 83   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 210  | 55   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 210  | 52   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 210  | 42   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 210  | 80   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 210  | 42   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 210  | 83   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 210  | 42   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 210  | 42   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 53.8   | 210  | 48   | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 210  | 73   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 210  | 42   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 210  | 42   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 210  | 57   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 210  | 42   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 210  | 42   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 210  | 42   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 210  | 42   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1870   | 210  | 42   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 210  | 55   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 1000 | 310  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 136    | 210  | 42   | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | ND     | 1000 | 370  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 210  | 83   | ug/kg |   |

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-10 (6')      |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-14         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 85.6    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                             | Result | RL   | MDL | Units | Q |
|-----------|--------------------------------------|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                      | ND     | 210  | 83  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 95.0   | 210  | 71  | ug/kg | J |
| 75-09-2   | Methylene Chloride                   | ND     | 830  | 460 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND     | 1000 | 310 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND     | 210  | 42  | ug/kg |   |
| 100-42-5  | Styrene                              | ND     | 210  | 42  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND     | 210  | 42  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND     | 210  | 53  | ug/kg |   |
| 108-88-3  | Toluene                              | 1560   | 830  | 420 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND     | 210  | 42  | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND     | 210  | 42  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND     | 210  | 42  | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND     | 210  | 42  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND     | 210  | 83  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND     | 210  | 42  | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 5540   | 620  | 87  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 92%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    |        | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

---

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-13 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA80928-15         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 91.8    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | F0098974.D | 1  | 11/21/20 18:28 | SP | n/a       | n/a        | VF3501           |
| Run #2 <sup>a</sup> | 3C12070.D  | 1  | 11/20/20 19:58 | SP | n/a       | n/a        | V3C507           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.92 g         | 5.0 ml       |                  |
| Run #2 | 7.52 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 293    | 160 | 79   | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 3.9 | 0.96 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.9 | 0.79 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 32.0   | 20  | 5.7  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 7.0    | 3.9 | 0.79 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.9 | 0.80 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 3.8    | 3.9 | 0.79 | ug/kg | J |
| 75-00-3    | Chloroethane <sup>b</sup>            | ND     | 3.9 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.9 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 3.9 | 0.98 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.9 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 3.9 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 4.6    | 3.9 | 0.79 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 3.9 | 0.79 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 4.5    | 3.9 | 0.91 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 3.9 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 3.9 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 3.9 | 0.79 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.9 | 0.79 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.9 | 0.79 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.9 | 0.79 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 47.8   | 3.9 | 0.79 | ug/kg |   |
| 76-13-1    | Freon 113 <sup>d</sup>               | ND     | 3.9 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 20  | 5.9  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 9.0    | 3.9 | 0.79 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 20  | 7.0  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 3.9 | 1.6  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-13 (3')               | <b>Date Sampled:</b>   | 11/17/20 |
| <b>Lab Sample ID:</b>    | FA80928-15               | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 91.8     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND     | 3.9 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | 2.9    | 3.9 | 1.3  | ug/kg | J |
| 75-09-2   | Methylene Chloride <sup>e</sup> | ND     | 16  | 8.7  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND     | 20  | 5.9  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 3.9 | 0.79 | ug/kg |   |
| 100-42-5  | Styrene                         | 1.0    | 3.9 | 0.79 | ug/kg | J |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND     | 3.9 | 0.79 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND     | 3.9 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                         | 28.2   | 16  | 7.9  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND     | 3.9 | 0.79 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND     | 3.9 | 0.79 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND     | 3.9 | 0.79 | ug/kg |   |
| 79-01-6   | Trichloroethylene               | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND     | 3.9 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | ND     | 3.9 | 0.79 | ug/kg |   |
| 1330-20-7 | Xylene (total)                  | 106    | 12  | 1.7  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   | 96%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100%   | 103%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 104%   | 89%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%    | 90%    | 71-133% |

(a) Confirmation run.

(b) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low.

(d) Associated ICV outside control limits low.

(e) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-13 (6')      |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-16         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 82.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | F0098975.D | 1  | 11/21/20 18:53 | SP | n/a       | n/a        | VF3501           |
| Run #2 <sup>a</sup> | 3C12071.D  | 1  | 11/20/20 20:25 | SP | n/a       | n/a        | V3C507           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.80 g         | 5.0 ml       |                  |
| Run #2 | 8.33 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 179    | 160 | 78   | ug/kg |   |
| 71-43-2    | Benzene                              | 18.5   | 3.9 | 0.95 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.9 | 0.78 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.9 | 0.78 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 22.2   | 19  | 5.7  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 2.7    | 3.9 | 0.78 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 31.7   | 3.9 | 0.78 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>b</sup>            | ND     | 3.9 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.9 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 5.2    | 3.9 | 0.97 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.9 | 0.78 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.9 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.9 | 0.78 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 3.9 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 2.6    | 3.9 | 0.78 | ug/kg | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | 1.8    | 3.9 | 0.78 | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 8.1    | 3.9 | 0.90 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 3.9 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.9 | 0.78 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.9 | 0.78 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 3.9 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 3.9 | 0.78 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.9 | 0.78 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.9 | 0.78 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.9 | 0.78 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 86.0   | 3.9 | 0.78 | ug/kg |   |
| 76-13-1    | Freon 113 <sup>d</sup>               | ND     | 3.9 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 19  | 5.8  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 59.5   | 3.9 | 0.78 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 19  | 6.9  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 3.9 | 1.6  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-13 (6')      |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-16         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 82.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND     | 3.9 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | 45.3   | 3.9 | 1.3  | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>e</sup> | ND     | 16  | 8.6  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND     | 19  | 5.8  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 3.9 | 0.78 | ug/kg |   |
| 100-42-5  | Styrene                         | ND     | 3.9 | 0.78 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND     | 3.9 | 0.78 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND     | 3.9 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                         | 44.7   | 16  | 7.8  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND     | 3.9 | 0.78 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND     | 3.9 | 0.78 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND     | 3.9 | 0.78 | ug/kg |   |
| 79-01-6   | Trichloroethylene               | ND     | 3.9 | 0.78 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND     | 3.9 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | ND     | 3.9 | 0.78 | ug/kg |   |
| 1330-20-7 | Xylene (total)                  | 144    | 12  | 1.6  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 96%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100%   | 103%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 106%   | 90%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 105%   | 88%    | 71-133% |

- (a) Confirmation run.
- (b) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.
- (d) Associated ICV outside control limits low.
- (e) Associated CCV outside of control limits high, sample was ND.

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-14 (3')      |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-17         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 83.6    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12072.D | 1  | 11/20/20 20:51 | SP | n/a       | n/a        | V3C507           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.15 g         | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

**VOA TCL 4.2 List**

| CAS No.    | Compound                             | Result | RL    | MDL  | Units | Q |
|------------|--------------------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10000 | 5200 | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 260   | 63   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 260   | 52   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 260   | 52   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 1300  | 380  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 260   | 52   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 260   | 53   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 260   | 52   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 260   | 100  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 260   | 69   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 260   | 65   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 260   | 52   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 260   | 99   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 260   | 52   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 260   | 100  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 260   | 52   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 260   | 52   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 260   | 59   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 260   | 91   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 260   | 52   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 260   | 52   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 260   | 71   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 260   | 52   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 260   | 52   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 260   | 52   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 260   | 52   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 3200   | 260   | 52   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 260   | 68   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 1300  | 390  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 332    | 260   | 52   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 1300  | 460  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 260   | 100  | ug/kg |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-14 (3')      |                                |
| <b>Lab Sample ID:</b> FA80928-17         | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 83.6    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result | RL   | MDL | Units | Q |
|-----------|--------------------------------------|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                      | ND     | 260  | 100 | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 219    | 260  | 88  | ug/kg | J |
| 75-09-2   | Methylene Chloride                   | ND     | 1000 | 570 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND     | 1300 | 390 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND     | 260  | 52  | ug/kg |   |
| 100-42-5  | Styrene                              | ND     | 260  | 52  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND     | 260  | 52  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND     | 260  | 66  | ug/kg |   |
| 108-88-3  | Toluene                              | ND     | 1000 | 520 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND     | 260  | 52  | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND     | 260  | 52  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND     | 260  | 52  | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND     | 260  | 52  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND     | 260  | 100 | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND     | 260  | 52  | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 2050   | 770  | 110 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 92%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    |        | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-14 (6')      |  |                                |
| <b>Lab Sample ID:</b> FA80928-18         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 82.8    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | 3C12224.D  | 1  | 11/27/20 16:57 | SP | n/a       | n/a        | V3C513           |
| Run #2 <sup>a</sup> | 3C12073.D  | 1  | 11/20/20 21:18 | SP | n/a       | n/a        | V3C507           |
| Run #3 <sup>b</sup> | F0098976.D | 1  | 11/21/20 19:16 | SP | n/a       | n/a        | VF3501           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.37 g         | 5.0 ml       |                  |
| Run #2 | 6.98 g         | 5.0 ml       | 100 ul           |
| Run #3 | 8.85 g         | 5.0 ml       |                  |

### VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 140 | 72   | ug/kg |   |
| 71-43-2    | Benzene                              | 8.5    | 3.6 | 0.88 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.6 | 0.72 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 18  | 5.2  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 0.89   | 3.6 | 0.72 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.6 | 0.74 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND     | 3.6 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.6 | 0.96 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 4.0    | 3.6 | 0.90 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.6 | 0.72 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.6 | 1.4  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 3.6 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 2.1    | 3.6 | 0.72 | ug/kg | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 3.6 | 0.72 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 3.6 | 0.83 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 3.6 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.6 | 0.72 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 3.6 | 1.0  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 3.6 | 0.72 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.6 | 0.72 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.6 | 0.72 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.6 | 0.72 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 8.9    | 3.6 | 0.72 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 3.6 | 0.95 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 18  | 5.4  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 134    | 3.6 | 0.72 | ug/kg |   |

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



## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-14 (6')               | <b>Date Sampled:</b>   | 11/17/20 |
| <b>Lab Sample ID:</b>    | FA80928-18               | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 82.8     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 79-20-9   | Methyl Acetate                      | ND     | 18  | 6.4  | ug/kg |   |
| 74-83-9   | Methyl Bromide                      | ND     | 3.6 | 1.4  | ug/kg |   |
| 74-87-3   | Methyl Chloride                     | ND     | 3.6 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 90.8   | 3.6 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.9  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 18  | 5.4  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.6 | 0.72 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.6 | 0.72 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.6 | 0.92 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 7.2  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.6 | 0.72 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND     | 3.6 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.6 | 0.72 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 4.3    | 11  | 1.5  | ug/kg | J |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3            | Limits  |
|------------|-----------------------|--------|--------|-------------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    | 97%    | 104%              | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   | 103%   | 94%               | 72-135% |
| 2037-26-5  | Toluene-D8            | 107%   | 89%    | 147% <sup>e</sup> | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%    | 90%    | 84%               | 71-133% |

(a) Confirmation run.

(b) Confirmation run for surrogate recoveries.

(c) Associated CCV outside of control limits low.

(d) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

(e) Outside control limits due to matrix interference.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-3 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-19         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 85.0    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12074.D  | 1  | 11/20/20 21:44 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098977.D | 1  | 11/21/20 19:41 | SP | n/a       | n/a        | VF3501           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.90 g         | 5.0 ml       | 100 ul           |
| Run #2 | 7.90 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 9200 | 4600 | ug/kg |   |
| 71-43-2    | Benzene                              | 259    | 230  | 56   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 230  | 46   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 230  | 46   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 2670   | 1200 | 330  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 230  | 46   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 230  | 47   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 71.2   | 230  | 46   | ug/kg | J |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 230  | 92   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 230  | 61   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 230  | 58   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 230  | 46   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 230  | 88   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 230  | 46   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 230  | 92   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 493    | 230  | 46   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 230  | 46   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 119    | 230  | 53   | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 230  | 82   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 230  | 46   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 230  | 46   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 817    | 230  | 64   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 230  | 46   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 230  | 46   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 230  | 46   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 230  | 46   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 2920   | 230  | 46   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 230  | 61   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 1200 | 350  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 68.9   | 230  | 46   | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | ND     | 1200 | 410  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 230  | 92   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-3 (3')                | <b>Date Sampled:</b>   | 11/17/20 |
| <b>Lab Sample ID:</b>    | FA80928-19               | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 85.0     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result             | RL   | MDL  | Units | Q |
|-----------|--------------------------------------|--------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                      | ND                 | 230  | 92   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | ND                 | 230  | 78   | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                 | 920  | 510  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                 | 1200 | 350  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                 | 230  | 46   | ug/kg |   |
| 100-42-5  | Styrene                              | ND                 | 230  | 46   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                 | 230  | 46   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                 | 230  | 59   | ug/kg |   |
| 108-88-3  | Toluene                              | 17800 <sup>c</sup> | 9200 | 4600 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                 | 230  | 46   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | ND                 | 230  | 46   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                 | 230  | 46   | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | ND                 | 230  | 46   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND                 | 230  | 92   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                 | 230  | 46   | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 21600              | 690  | 97   | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    | 98%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 96%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 92%    | 98%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    | 94%    | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-3 (5')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-20         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 85.2    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12075.D  | 1   | 11/20/20 22:10 | SP | n/a       | n/a        | V3C507           |
| Run #2 | F0098978.D | 10  | 11/21/20 20:06 | SP | n/a       | n/a        | VF3501           |
| Run #3 | 3C12225.D  | 100 | 11/27/20 17:23 | SP | n/a       | n/a        | V3C513           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.37 g         | 5.0 ml       | 5.0 ul           |
| Run #2 | 7.37 g         | 5.0 ml       | 2.0 ul           |
| Run #3 | 7.37 g         | 5.0 ml       | 2.0 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result               | RL     | MDL   | Units | Q |
|------------|--------------------------------------|----------------------|--------|-------|-------|---|
| 67-64-1    | Acetone                              | ND                   | 190000 | 97000 | ug/kg |   |
| 71-43-2    | Benzene                              | 27400                | 4800   | 1200  | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                   | 4800   | 970   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                   | 4800   | 970   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 10800                | 24000  | 7100  | ug/kg | J |
| 75-15-0    | Carbon Disulfide                     | ND                   | 4800   | 970   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                   | 4800   | 990   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                   | 4800   | 970   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                   | 4800   | 1900  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                   | 4800   | 1300  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 20800                | 4800   | 1200  | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                   | 4800   | 970   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                   | 4800   | 1900  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                   | 4800   | 970   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                   | 4800   | 1900  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 146000               | 4800   | 970   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 11600                | 4800   | 970   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 30900                | 4800   | 1100  | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                   | 4800   | 1700  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                   | 4800   | 970   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                   | 4800   | 970   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 46700                | 4800   | 1300  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                   | 4800   | 970   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                   | 4800   | 970   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                   | 4800   | 970   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                   | 4800   | 970   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 2270000 <sup>c</sup> | 120000 | 24000 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                   | 4800   | 1300  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                   | 24000  | 7300  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 90600                | 4800   | 970   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-3 (5')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-20         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 85.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                             | Result                | RL      | MDL     | Units | Q |
|-----------|--------------------------------------|-----------------------|---------|---------|-------|---|
| 79-20-9   | Methyl Acetate                       | ND                    | 24000   | 8600    | ug/kg |   |
| 74-83-9   | Methyl Bromide                       | ND                    | 4800    | 1900    | ug/kg |   |
| 74-87-3   | Methyl Chloride                      | ND                    | 4800    | 1900    | ug/kg |   |
| 108-87-2  | Methylcyclohexane                    | 17900                 | 4800    | 1600    | ug/kg |   |
| 75-09-2   | Methylene Chloride                   | ND                    | 19000   | 11000   | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)          | ND                    | 24000   | 7300    | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether <sup>a</sup> | ND                    | 4800    | 970     | ug/kg |   |
| 100-42-5  | Styrene                              | 57900                 | 4800    | 970     | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane            | ND                    | 4800    | 970     | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                  | ND                    | 4800    | 1200    | ug/kg |   |
| 108-88-3  | Toluene                              | 6270000 <sup>d</sup>  | 4800000 | 2400000 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene               | ND                    | 4800    | 970     | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane                | 3010                  | 4800    | 970     | ug/kg | J |
| 79-00-5   | 1,1,2-Trichloroethane                | ND                    | 4800    | 970     | ug/kg |   |
| 79-01-6   | Trichloroethylene                    | 31300                 | 4800    | 970     | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane               | ND                    | 4800    | 1900    | ug/kg |   |
| 75-01-4   | Vinyl Chloride                       | ND                    | 4800    | 970     | ug/kg |   |
| 1330-20-7 | Xylene (total)                       | 20700000 <sup>d</sup> | 3600000 | 510000  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Run# 3 | Limits  |
|------------|-----------------------|--------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    | 101%   | 99%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   | 90%    | 108%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 116%   | 103%   | 108%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 93%    | 92%    | 99%    | 71-133% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated BS recovery outside control limits low. Associated CCV outside of control limits low.

(c) Result is from Run# 2

(d) Result is from Run# 3

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-6 (3')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-21         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 88.4    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | F0098979.D | 1  | 11/21/20 20:30 | SP | n/a       | n/a        | VF3501           |
| Run #2 | 3C12226.D  | 1  | 11/27/20 17:49 | SP | n/a       | n/a        | V3C513           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.99 g         | 5.0 ml       | 100 ul           |
| Run #2 | 7.99 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 8400 | 4200 | ug/kg |   |
| 71-43-2    | Benzene                              | 361    | 210  | 51   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 210  | 42   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 210  | 42   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 2290   | 1000 | 310  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 210  | 42   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 210  | 43   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 341    | 210  | 42   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 210  | 84   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 210  | 56   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 210  | 52   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 210  | 42   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 210  | 81   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 210  | 42   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 210  | 84   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 938    | 210  | 42   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 73.7   | 210  | 42   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 230    | 210  | 48   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 210  | 74   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 210  | 42   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 210  | 42   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 3990   | 210  | 58   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 210  | 42   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 210  | 42   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 210  | 42   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 210  | 42   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 3340   | 210  | 42   | ug/kg |   |
| 76-13-1    | Freon 113 <sup>c</sup>               | ND     | 210  | 55   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 1000 | 310  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 79.9   | 210  | 42   | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | ND     | 1000 | 370  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 210  | 84   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-6 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-21         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 88.4    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                        | Result             | RL   | MDL  | Units | Q |
|-----------|---------------------------------|--------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND                 | 210  | 84   | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | ND                 | 210  | 71   | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>d</sup> | ND                 | 840  | 460  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | 416                | 1000 | 310  | ug/kg | J |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND                 | 210  | 42   | ug/kg |   |
| 100-42-5  | Styrene                         | 52.7               | 210  | 42   | ug/kg | J |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND                 | 210  | 42   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND                 | 210  | 54   | ug/kg |   |
| 108-88-3  | Toluene                         | 25200 <sup>e</sup> | 8400 | 4200 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND                 | 210  | 42   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND                 | 210  | 42   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND                 | 210  | 42   | ug/kg |   |
| 79-01-6   | Trichloroethylene               | ND                 | 210  | 42   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND                 | 210  | 84   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | 133                | 210  | 42   | ug/kg | J |
| 1330-20-7 | Xylene (total)                  | 28700 <sup>e</sup> | 6300 | 880  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    | 99%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91%    | 108%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 103%   | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%    | 98%    | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low.
- (c) Associated ICV outside control limits low.
- (d) Associated CCV outside of control limits high, sample was ND.
- (e) Result is from Run# 2

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-6 (5')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-22         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 83.5    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | F0098980.D | 1   | 11/21/20 20:54 | SP | n/a       | n/a        | VF3501           |
| Run #2 | 3C12227.D  | 100 | 11/27/20 18:16 | SP | n/a       | n/a        | V3C513           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 7.61 g         | 5.0 ml       | 1.0 ul           |
| Run #2 | 7.61 g         | 5.0 ml       | 5.0 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL     | MDL    | Units | Q |
|------------|--------------------------------------|--------|--------|--------|-------|---|
| 67-64-1    | Acetone                              | ND     | 980000 | 490000 | ug/kg |   |
| 71-43-2    | Benzene                              | 11900  | 25000  | 6000   | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND     | 25000  | 4900   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 25000  | 4900   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 120000 | 36000  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 25000  | 4900   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 25000  | 5000   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 20400  | 25000  | 4900   | ug/kg | J |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 25000  | 9800   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 25000  | 6500   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 8660   | 25000  | 6200   | ug/kg | J |
| 124-48-1   | Dibromochloromethane                 | ND     | 25000  | 4900   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 25000  | 9500   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 25000  | 4900   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 25000  | 9800   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 129000 | 25000  | 4900   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 9070   | 25000  | 4900   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 25500  | 25000  | 5700   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 25000  | 8700   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 25000  | 4900   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 25000  | 4900   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 93500  | 25000  | 6800   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 25000  | 4900   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 25000  | 4900   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 25000  | 4900   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 25000  | 4900   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 859000 | 25000  | 4900   | ug/kg |   |
| 76-13-1    | Freon 113 <sup>c</sup>               | ND     | 25000  | 6500   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 120000 | 37000  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 30900  | 25000  | 4900   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 120000 | 44000  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 25000  | 9800   | ug/kg |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-6 (5')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-22         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 83.5    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                        | Result               | RL      | MDL    | Units | Q |
|-----------|---------------------------------|----------------------|---------|--------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND                   | 25000   | 9800   | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | 12900                | 25000   | 8400   | ug/kg | J |
| 75-09-2   | Methylene Chloride <sup>d</sup> | ND                   | 98000   | 54000  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND                   | 120000  | 37000  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND                   | 25000   | 4900   | ug/kg |   |
| 100-42-5  | Styrene                         | 34400                | 25000   | 4900   | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND                   | 25000   | 4900   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND                   | 25000   | 6300   | ug/kg |   |
| 108-88-3  | Toluene                         | 4230000 <sup>e</sup> | 2000000 | 980000 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND                   | 25000   | 4900   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | 8180                 | 25000   | 4900   | ug/kg | J |
| 79-00-5   | 1,1,2-Trichloroethane           | ND                   | 25000   | 4900   | ug/kg |   |
| 79-01-6   | Trichloroethylene               | 88100                | 25000   | 4900   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND                   | 25000   | 9800   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | ND                   | 25000   | 4900   | ug/kg |   |
| 1330-20-7 | Xylene (total)                  | 8510000 <sup>e</sup> | 1500000 | 210000 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 98%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    | 107%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    | 99%    | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low.
- (c) Associated ICV outside control limits low.
- (d) Associated CCV outside of control limits high, sample was ND.
- (e) Result is from Run# 2

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-7 (3')       |  |                                |
| <b>Lab Sample ID:</b> FA80928-23         |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 86.2    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1              | 3C12228.D  | 1  | 11/27/20 18:42 | SP | n/a       | n/a        | V3C513           |
| Run #2 <sup>a</sup> | F0098981.D | 1  | 11/21/20 21:18 | SP | n/a       | n/a        | VF3501           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.82 g         | 5.0 ml       | 100 ul           |
| Run #2 | 6.82 g         | 5.0 ml       | 10.0 ul          |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL    | MDL  | Units | Q |
|------------|--------------------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10000 | 5100 | ug/kg |   |
| 71-43-2    | Benzene                              | 63.4   | 250   | 62   | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND     | 250   | 51   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 250   | 51   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 2410   | 1300  | 370  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 250   | 51   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 250   | 52   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 357    | 250   | 51   | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND     | 250   | 100  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 250   | 67   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 250   | 63   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 250   | 51   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 250   | 97   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 250   | 51   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 250   | 100  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 1360   | 250   | 51   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 111    | 250   | 51   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 323    | 250   | 58   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 250   | 89   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 250   | 51   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 250   | 51   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 1070   | 250   | 70   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 250   | 51   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 250   | 51   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 250   | 51   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 250   | 51   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 2380   | 250   | 51   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 250   | 67   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 1300  | 380  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 60.0   | 250   | 51   | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | ND     | 1300  | 450  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 250   | 100  | ug/kg |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-7 (3')       |  | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-23         |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL   | MDL | Units | Q |
|-----------|-------------------------------------|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 250  | 100 | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 250  | 86  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 1000 | 560 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 1300 | 380 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 250  | 51  | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 250  | 51  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 250  | 51  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 250  | 65  | ug/kg |   |
| 108-88-3  | Toluene                             | 7530   | 1000 | 510 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 250  | 51  | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 250  | 51  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 250  | 51  | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 250  | 51  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>c</sup> | ND     | 250  | 100 | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 250  | 51  | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 22600  | 760  | 110 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    | 103%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106%   | 91%    | 72-135% |
| 2037-26-5  | Toluene-D8            | 111%   | 99%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    | 91%    | 71-133% |

(a) Confirmation run.

(b) Associated CCV outside of control limits low.

(c) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |  |  |  |  |  |                                |  |
|--|--|--|--|--|--|--------------------------------|--|
| <b>Client Sample ID:</b> A2-7 (5')       |  |  |  |  |  |                                |  |
| <b>Lab Sample ID:</b> FA80928-24         |  |  |  |  |  | <b>Date Sampled:</b> 11/17/20  |  |
| <b>Matrix:</b> SO - Soil                 |  |  |  |  |  | <b>Date Received:</b> 11/18/20 |  |
| <b>Method:</b> SW846 8260D               |  |  |  |  |  | <b>Percent Solids:</b> 84.3    |  |
| <b>Project:</b> Brenntag; Charleston, SC |  |  |  |  |  |                                |  |

|        | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | F0098982.D | 1   | 11/21/20 21:42 | SP | n/a       | n/a        | VF3501           |
| Run #2 | 3C12229.D  | 100 | 11/27/20 19:09 | SP | n/a       | n/a        | V3C513           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.04 g         | 5.0 ml       | 1.0 ul           |
| Run #2 | 8.04 g         | 5.0 ml       | 5.0 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL     | MDL    | Units | Q |
|------------|--------------------------------------|--------|--------|--------|-------|---|
| 67-64-1    | Acetone                              | ND     | 920000 | 460000 | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 23000  | 5600   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 23000  | 4600   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 23000  | 4600   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 120000 | 34000  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 23000  | 4600   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 23000  | 4700   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 32200  | 23000  | 4600   | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 23000  | 9200   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 23000  | 6100   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 23000  | 5800   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 23000  | 4600   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 23000  | 8900   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 23000  | 4600   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 23000  | 9200   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 112000 | 23000  | 4600   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 7950   | 23000  | 4600   | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 21000  | 23000  | 5300   | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 23000  | 8200   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 23000  | 4600   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 23000  | 4600   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 57200  | 23000  | 6400   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 23000  | 4600   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 23000  | 4600   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 23000  | 4600   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 23000  | 4600   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 697000 | 23000  | 4600   | ug/kg |   |
| 76-13-1    | Freon 113 <sup>c</sup>               | ND     | 23000  | 6100   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 120000 | 35000  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 26700  | 23000  | 4600   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 120000 | 41000  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 23000  | 9200   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-7 (5')       | <b>Date Sampled:</b> 11/17/20  |
| <b>Lab Sample ID:</b> FA80928-24         | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> SO - Soil                 | <b>Percent Solids:</b> 84.3    |
| <b>Method:</b> SW846 8260D               |                                |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                        | Result               | RL      | MDL    | Units | Q |
|-----------|---------------------------------|----------------------|---------|--------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND                   | 23000   | 9200   | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | ND                   | 23000   | 7900   | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>d</sup> | ND                   | 92000   | 51000  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND                   | 120000  | 35000  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND                   | 23000   | 4600   | ug/kg |   |
| 100-42-5  | Styrene                         | 9700                 | 23000   | 4600   | ug/kg | J |
| 79-34-5   | 1,1,1,2-Tetrachloroethane       | ND                   | 23000   | 4600   | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND                   | 23000   | 5900   | ug/kg |   |
| 108-88-3  | Toluene                         | 1540000 <sup>e</sup> | 1800000 | 920000 | ug/kg | J |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND                   | 23000   | 4600   | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND                   | 23000   | 4600   | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND                   | 23000   | 4600   | ug/kg |   |
| 79-01-6   | Trichloroethylene               | ND                   | 23000   | 4600   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND                   | 23000   | 9200   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | ND                   | 23000   | 4600   | ug/kg |   |
| 1330-20-7 | Xylene (total)                  | 7950000 <sup>e</sup> | 1400000 | 190000 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   | 99%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92%    | 108%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 101%   | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 93%    | 100%   | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low.
- (c) Associated ICV outside control limits low.
- (d) Associated CCV outside of control limits high, sample was ND.
- (e) Result is from Run# 2

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

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

ID#: \_\_\_\_\_

Lab Work Order # \_\_\_\_\_

FA80928

|                  |  |   |                                   |  |  |  |  |  |  |
|------------------|--|---|-----------------------------------|--|--|--|--|--|--|
| Send Results to: | Contact & Company Name<br><i>Charles Anson<br/>ARCADIS</i> | Telephone:<br><i>706-929-4421</i>                   | Preservative<br><i>#</i>          |  |  |  |  |  | <b>Keys</b><br><b>Preservation Key:</b><br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: <i>MeOH</i><br>G. Other: _____<br>H. Other: _____<br><b>Matrix Key:</b><br>SQ - Soil<br>W - Water<br>T - Tissue<br>SE - Sediment<br>SL - Sludge<br>A - Air<br>NL - NAPL/Oil<br>SW - Sample Wipe<br>Other: _____ |
|                  | Address:<br><i>1450 Greene St 56</i>                       | Fax:<br><i>220</i>                                  | # of Containers<br><i>3</i>       |  |  |  |  |  |  |
|                  | City: State: Zip<br><i>Augusta GA 30901</i>                | E-mail Address:<br><i>Charles.Ansou@Arcadis.com</i> | Container Information<br><i>1</i> |  |  |  |  |  |  |

|  |                                       |   |  |  |  |  |  |  |
|--|---------------------------------------|---|--|--|--|--|--|--|
| Project Name/Location (City, State):<br><i>Reentry Charleston SC</i> | Project #:<br><i>30062543</i>         | <b>PARAMETER ANALYSIS &amp; METHOD</b>  |  |  |  |  |  |  |
| Sampler's Printed Name:<br><i>C. Anson</i>                           | Sampler's Signature:<br><i>CB Lam</i> | <div style="position: absolute; top: 0; left: 0; transform: rotate(-90deg); font-size: small;">SOIL KIT 40 mL VIALS VDL</div> |  |  |  |  |  |  |

|    | Sample ID   | Collection |       | Type (✓) |      | Matrix |   |  |  |  |  |  |  |
|----|-------------|------------|-------|----------|------|--------|---|--|--|--|--|--|--|
|    |             | Date       | Time  | Comp     | Grab |        |   |  |  |  |  |  |  |
| 1  | A#2-1 (2')  | 11/17/20   | 8:24  |          | X    | SO     | 4 |  |  |  |  |  |  |
| 2  | A#2-1 (5')  | "          | 8:41  |          | X    | SO     | 4 |  |  |  |  |  |  |
| 3  | A#2-2 (3')  | "          | 9:15  |          | X    | SO     | 4 |  |  |  |  |  |  |
| 4  | A#2-2 (5')  | "          | 9:19  |          | X    | SO     | 4 |  |  |  |  |  |  |
| 5  | A#2-4 (3')  | "          | 9:54  |          | X    | SO     | 4 |  |  |  |  |  |  |
| 6  | A#2-4 (5')  | "          | 9:59  |          | X    | SO     | 4 |  |  |  |  |  |  |
| 7  | A#2-8 (3')  | "          | 10:33 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 8  | A#2-8 (5')  | "          | 10:35 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 9  | A#2-5 (3')  | "          | 11:17 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 10 | A#2-5 (5')  | "          | 11:19 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 11 | A#2-9 (3')  | "          | 11:57 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 12 | A#2-9 (6')  | "          | 11:54 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 13 | A#2-10 (3') | "          | 13:07 |          | X    | SO     | 4 |  |  |  |  |  |  |
| 14 | A#2-10 (6') | "          | 13:09 |          | X    | SO     | 4 |  |  |  |  |  |  |

*NITRALIZED WITH MEAN*  
*ARCADIS/CHARLESTON*

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (✓): \_\_\_\_\_

| Laboratory Information and Receipt                             |   | Relinquished By                    |                                  | Received By                |                  | Relinquished By            |                  | Laboratory Received By             |                                 |
|--|---|------------------------------------|----------------------------------|----------------------------|------------------|----------------------------|------------------|------------------------------------|---------------------------------|
| Lab Name: <i>SGS</i>   | Cooler Custody Seal (✓)   | Printed Name: <i>Charles Anson</i> | Signature: <i>CB Lam</i>         | Printed Name: <i>Fedex</i> | Signature: _____ | Printed Name: <i>Fedex</i> | Signature: _____ | Printed Name: <i>Bryan Giraldo</i> | Signature: <i>Mmm Mmm</i>       |
| <input checked="" type="checkbox"/> Cooler packed with ice (✓) | <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Firm: <i>Arcadis</i>               | Date/Time: <i>11/17/20 17:30</i> | Firm/Courier: _____        | Date/Time: _____ | Firm/Courier: _____        | Date/Time: _____ | Firm: <i>SGS</i>                   | Date/Time: <i>11/18/20 9:30</i> |
| Specify Turnaround Requirements:                               | Sample Receipt: _____   |                                    |                                  |                            |                  |                            |                  |                                    |                                 |
| Shipping Tracking #:   | Condition/Cooler Temp: <i>2.8</i>                                   |                                    |                                  |                            |                  |                            |                  |                                    |                                 |

|   |   |   |  |                        |          |
|---|---|---|--|------------------------|----------|
| Send Results to:  | Contact & Company Name:<br><b>CHARLES Uwson<br/>ARCADIS</b> | Telephone:<br><b>766-929-4721</b>                   | Preservative:<br><b>F</b>              | Filtered (✓):          |          |
|   | Address:<br><b>1450 Greene St Ste 220</b>                   | Fax:  | # of Containers:<br><b>3</b>           | Container Information: | <b>1</b> |
|   | City: <b>Augusta GA</b> State: <b>GA</b> Zip: <b>30901</b>  | E-mail Address:<br><b>Charles.Uwson@ARCADIS.com</b> | <b>PARAMETER ANALYSIS &amp; METHOD</b> |                        |          |
| Project Name/Location (City, State):<br><b>Drenth, Charleston, SC</b> | Project #:<br><b>30962543</b>                               |   |  |                        |          |
| Sampler's Printed Name:<br><b>C. Uwson</b>                            | Sampler's Signature:<br><i>CB Lewin</i>                     | <i>SOIL KIT<br/>30 ml vials<br/>VOC</i>             |  |                        |          |
| Sample ID   | Collection<br>Date Time Comp Grab                           |   |  |                        |          |

**Keys**

**Preservation Key:**  
 A. H<sub>2</sub>SO<sub>4</sub>  
 B. HCl  
 C. HNO<sub>3</sub>  
 D. NaOH  
 E. None  
 F. Other: **MeOH**  
 G. Other: \_\_\_\_\_  
 H. Other: \_\_\_\_\_

**Container Information Key:**  
 1. 40 ml Vial  
 2. 1 L Amber  
 3. 250 ml Plastic  
 4. 500 ml Plastic  
 5. Encore  
 6. 2 oz. Glass  
 7. 4 oz. Glass  
 8. 8 oz. Glass  
 9. Other: \_\_\_\_\_  
 10. Other: \_\_\_\_\_

**Matrix Key:**  
 SO - Soil  
 W - Water  
 T - Tissue  
 SE - Sediment  
 SL - Sludge  
 A - Air  
 NL - NAP/LOil  
 SW - Sample Wipe  
 Other: \_\_\_\_\_

15  
16  
17  
18  
19  
20  
21  
22  
23  
24

| Sample ID   | Collection<br>Date Time Comp Grab | Type (✓)<br>Matrix | Matrix | REMARKS |
|-------------|-----------------------------------|--------------------|--------|---------|
| A#2-13 (3') | 11/17/2010 13:37 X                | SO                 | 4      |         |
| A#2-13 (6') | " 13:39 X                         | SO                 | 4      |         |
| A#2-14 (3') | " 14:10 X                         | SO                 | 4      |         |
| A#2-14 (6') | " 14:13 X                         | SO                 | 4      |         |
| A#2-3 (3')  | " 14:49 X                         | SO                 | 4      |         |
| A#2-3 (5')  | " 14:51 X                         | SO                 | 4      |         |
| A#2-6 (3')  | " 15:26 X                         | SO                 | 4      |         |
| A#2-6 (5')  | " 15:28 X                         | SO                 | 4      |         |
| A#2-7 (3')  | " 15:56 X                         | SO                 | 4      |         |
| A#2-7 (5')  | " 15:58 X                         | SO                 | 4      |         |

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (✓): \_\_\_\_\_

| Laboratory Information and Receipt                             |  | Relinquished By                       |                               | Received By                   |                                       | Relinquished By |  | Laboratory Received By |  |
|--|--|---------------------------------------|-------------------------------|-------------------------------|---------------------------------------|-----------------|--|------------------------|--|
| Lab Name:<br><b>SGS</b>  | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Uwson</b> | Printed Name:<br><b>Fedex</b> | Printed Name:<br><b>Fedex</b> | Printed Name:<br><b>Bryan Girardo</b> |                 |  |                        |  |
| <input checked="" type="checkbox"/> Cooler packed with ice (✓) | Sample Receipt:  | Signature:<br><i>CB Lewin</i>         | Signature:                    | Signature:                    | Signature:<br><i>[Signature]</i>      |                 |  |                        |  |
| Specify Turnaround Requirements:                               | Condition/Cooler Temp: _____   | Firm:<br><b>Arcadis</b>               | Firm/Courier:                 | Firm/Courier:                 | Firm:<br><b>SGS</b>                   |                 |  |                        |  |
| Shipping Tracking #:   |  | Date/Time:<br><b>11/17/2010 17:30</b> | Date/Time:                    | Date/Time:                    | Date/Time:<br><b>Wixto 930</b>        |                 |  |                        |  |

20730826 CoC AR Form 08.27.2015 Distribution: WHITE - Laboratory returns with results YELLOW - Lab copy PINK - Retained by Arcadis



## SGS Sample Receipt Summary

Job Number: FA80928

Client: ARCADIS

Project: 30062543

Date / Time Received: 11/18/2020 9:30:00 AM

Delivery Method: FEDEX

Airbill #'s: 923153807384

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Sample Information**

Y or N N/A

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

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_

Number of Lab Filtered Metals: \_\_\_\_\_

Test Strip Lot #s: pH 0-3 230315

pH 10-12 219813A

Other: (Specify) \_\_\_\_\_

Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 11/18/2020 9:30:00 A

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA80928: Chain of Custody

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4.1  
4

## MS Volatiles

### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C506-MB | 3C12025.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |
| 1634-04-4  | Methyl Tert Butyl Ether     | ND     | 5.0 | 1.0 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C506-MB | 3C12025.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5

| CAS No.  | Compound                  | Result | RL  | MDL | Units | Q |
|----------|---------------------------|--------|-----|-----|-------|---|
| 100-42-5 | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5  | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4 | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3 | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1 | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6  | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5  | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6  | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4  | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4  | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 89%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%    | 71-133% |

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C507-MB | 3C12055.D | 1  | 11/20/20 | SP | n/a       | n/a        | V3C507           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5, FA80928-6, FA80928-7, FA80928-8, FA80928-10, FA80928-11, FA80928-12, FA80928-13, FA80928-14, FA80928-17, FA80928-19, FA80928-20

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C507-MB | 3C12055.D | 1  | 11/20/20 | SP | n/a       | n/a        | V3C507           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5, FA80928-6, FA80928-7, FA80928-8, FA80928-10, FA80928-11, FA80928-12, FA80928-13, FA80928-14, FA80928-17, FA80928-19, FA80928-20

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | 2.2    | 15  | 2.1 | ug/kg | J |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 100% 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% 72-135% |
| 2037-26-5  | Toluene-D8            | 88% 75-126%  |
| 460-00-4   | 4-Bromofluorobenzene  | 91% 71-133%  |

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-MB | F0098964.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-7, FA80928-8, FA80928-9, FA80928-10, FA80928-11, FA80928-13, FA80928-15, FA80928-16, FA80928-19, FA80928-20, FA80928-21, FA80928-22, FA80928-24

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-MB | F0098964.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-7, FA80928-8, FA80928-9, FA80928-10, FA80928-11, FA80928-13, FA80928-15, FA80928-16, FA80928-19, FA80928-20, FA80928-21, FA80928-22, FA80928-24

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 110%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 99%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    | 71-133% |



## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-MB | 3C12219.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-8, FA80928-9, FA80928-10, FA80928-12, FA80928-18, FA80928-20, FA80928-21, FA80928-22, FA80928-23, FA80928-24

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-MB | 3C12219.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-8, FA80928-9, FA80928-10, FA80928-12, FA80928-18, FA80928-20, FA80928-21, FA80928-22, FA80928-23, FA80928-24

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   | 71-133% |

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C506-BS | 3C12023.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5

| CAS No.    | Compound                    | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|------------|-----------------------------|----------------|--------------|----------|--------|
| 67-64-1    | Acetone                     | 250            | 274          | 110      | 61-152 |
| 71-43-2    | Benzene                     | 50             | 54.0         | 108      | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50             | 58.3         | 117      | 74-130 |
| 75-25-2    | Bromoform                   | 50             | 51.7         | 103      | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250            | 282          | 113      | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50             | 46.0         | 92       | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50             | 54.7         | 109      | 78-133 |
| 108-90-7   | Chlorobenzene               | 50             | 49.6         | 99       | 81-129 |
| 75-00-3    | Chloroethane                | 50             | 73.9         | 148*     | 68-133 |
| 67-66-3    | Chloroform                  | 50             | 55.4         | 111      | 72-123 |
| 110-82-7   | Cyclohexane                 | 50             | 46.4         | 93       | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50             | 50.8         | 102      | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50             | 44.7         | 89       | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50             | 49.6         | 99       | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50             | 26.2         | 52*      | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50             | 47.1         | 94       | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50             | 46.5         | 93       | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50             | 47.1         | 94       | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50             | 55.4         | 111      | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50             | 55.7         | 111      | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50             | 53.5         | 107      | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50             | 53.7         | 107      | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50             | 52.7         | 105      | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50             | 54.8         | 110      | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50             | 52.4         | 105      | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50             | 51.7         | 103      | 75-131 |
| 76-13-1    | Freon 113                   | 50             | 36.3         | 73       | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250            | 269          | 108      | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50             | 48.7         | 97       | 80-136 |
| 79-20-9    | Methyl Acetate              | 250            | 280          | 112      | 67-137 |
| 74-83-9    | Methyl Bromide              | 50             | 53.9         | 108      | 65-139 |
| 74-87-3    | Methyl Chloride             | 50             | 38.2         | 76       | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50             | 44.9         | 90       | 75-128 |
| 75-09-2    | Methylene Chloride          | 50             | 49.7         | 99       | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250            | 269          | 108      | 76-132 |
| 1634-04-4  | Methyl Tert Butyl Ether     | 50             | 56.8         | 114      | 77-120 |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C506-BS | 3C12023.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5

| CAS No.  | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|----------|---------------------------|-------------|-----------|-------|--------|
| 100-42-5 | Styrene                   | 50          | 48.9      | 98    | 78-125 |
| 79-34-5  | 1,1,2,2-Tetrachloroethane | 50          | 47.5      | 95    | 71-126 |
| 127-18-4 | Tetrachloroethylene       | 50          | 50.7      | 101   | 79-130 |
| 108-88-3 | Toluene                   | 50          | 47.3      | 95    | 76-124 |
| 120-82-1 | 1,2,4-Trichlorobenzene    | 50          | 47.5      | 95    | 78-130 |
| 71-55-6  | 1,1,1-Trichloroethane     | 50          | 55.2      | 110   | 70-129 |
| 79-00-5  | 1,1,2-Trichloroethane     | 50          | 51.0      | 102   | 74-124 |
| 79-01-6  | Trichloroethylene         | 50          | 53.5      | 107   | 75-128 |
| 75-69-4  | Trichlorofluoromethane    | 50          | 65.8      | 132   | 73-145 |
| 75-01-4  | Vinyl Chloride            | 50          | 42.0      | 84    | 76-141 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 72-135% |
| 2037-26-5  | Toluene-D8            | 91%  | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%  | 71-133% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| V3C507-BS <sup>a</sup> | 3C12053.D | 1  | 11/20/20 | SP | n/a       | n/a        | V3C507           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5, FA80928-6, FA80928-7, FA80928-8, FA80928-10, FA80928-11, FA80928-12, FA80928-13, FA80928-14, FA80928-17, FA80928-19, FA80928-20

| CAS No.    | Compound                    | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|------------|-----------------------------|-------------|-----------|-------|--------|
| 67-64-1    | Acetone                     | 250         | 273       | 109   | 61-152 |
| 71-43-2    | Benzene                     | 50          | 50.9      | 102   | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50          | 56.4      | 113   | 74-130 |
| 75-25-2    | Bromoform                   | 50          | 49.5      | 99    | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250         | 279       | 112   | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50          | 43.8      | 88    | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50          | 54.1      | 108   | 78-133 |
| 108-90-7   | Chlorobenzene               | 50          | 46.2      | 92    | 81-129 |
| 75-00-3    | Chloroethane                | 50          | 56.2      | 112   | 68-133 |
| 67-66-3    | Chloroform                  | 50          | 54.0      | 108   | 72-123 |
| 110-82-7   | Cyclohexane                 | 50          | 46.2      | 92    | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50          | 49.1      | 98    | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50          | 44.9      | 90    | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50          | 48.0      | 96    | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50          | 27.4      | 55*   | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50          | 44.0      | 88    | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50          | 44.2      | 88    | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50          | 44.0      | 88    | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50          | 52.8      | 106   | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50          | 54.1      | 108   | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50          | 51.6      | 103   | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50          | 51.4      | 103   | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50          | 50.8      | 102   | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50          | 51.8      | 104   | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50          | 50.8      | 102   | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50          | 50.1      | 100   | 75-131 |
| 100-41-4   | Ethylbenzene                | 50          | 46.5      | 93    | 77-123 |
| 76-13-1    | Freon 113                   | 50          | 38.7      | 77    | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250         | 255       | 102   | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50          | 45.9      | 92    | 80-136 |
| 79-20-9    | Methyl Acetate              | 250         | 274       | 110   | 67-137 |
| 74-83-9    | Methyl Bromide              | 50          | 47.5      | 95    | 65-139 |
| 74-87-3    | Methyl Chloride             | 50          | 36.7      | 73    | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50          | 47.2      | 94    | 75-128 |
| 75-09-2    | Methylene Chloride          | 50          | 48.0      | 96    | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250         | 255       | 102   | 76-132 |

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| V3C507-BS <sup>a</sup> | 3C12053.D | 1  | 11/20/20 | SP | n/a       | n/a        | V3C507           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5, FA80928-6, FA80928-7, FA80928-8, FA80928-10, FA80928-11, FA80928-12, FA80928-13, FA80928-14, FA80928-17, FA80928-19, FA80928-20

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 56.7      | 113   | 77-120 |
| 100-42-5  | Styrene                   | 50          | 45.9      | 92    | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 45.9      | 92    | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 49.3      | 99    | 79-130 |
| 108-88-3  | Toluene                   | 50          | 44.9      | 90    | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 46.3      | 93    | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 52.9      | 106   | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 49.5      | 99    | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 51.3      | 103   | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 54.9      | 110   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 39.2      | 78    | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 144       | 96    | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 72-135% |
| 2037-26-5  | Toluene-D8            | 94%  | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 71-133% |

(a) No sample available for MS/MSD.

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-BS | F0098965.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-7, FA80928-8, FA80928-9, FA80928-10, FA80928-11, FA80928-13, FA80928-15, FA80928-16, FA80928-19, FA80928-20, FA80928-21, FA80928-22, FA80928-24

| CAS No.    | Compound                    | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|------------|-----------------------------|-------------|-----------|-------|--------|
| 67-64-1    | Acetone                     | 250         | 280       | 112   | 61-152 |
| 71-43-2    | Benzene                     | 50          | 57.4      | 115   | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50          | 57.8      | 116   | 74-130 |
| 75-25-2    | Bromoform                   | 50          | 55.2      | 110   | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250         | 287       | 115   | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50          | 54.6      | 109   | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50          | 58.7      | 117   | 78-133 |
| 108-90-7   | Chlorobenzene               | 50          | 56.2      | 112   | 81-129 |
| 75-00-3    | Chloroethane                | 50          | 70.7      | 141*  | 68-133 |
| 67-66-3    | Chloroform                  | 50          | 59.9      | 120   | 72-123 |
| 110-82-7   | Cyclohexane                 | 50          | 57.2      | 114   | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50          | 57.5      | 115   | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50          | 55.8      | 112   | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50          | 53.7      | 107   | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50          | 36.5      | 73    | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50          | 56.1      | 112   | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50          | 56.6      | 113   | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50          | 55.2      | 110   | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50          | 62.3      | 125   | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50          | 53.5      | 107   | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50          | 60.2      | 120   | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50          | 59.0      | 118   | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50          | 59.7      | 119   | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50          | 58.8      | 118   | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50          | 53.6      | 107   | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50          | 56.8      | 114   | 75-131 |
| 100-41-4   | Ethylbenzene                | 50          | 58.7      | 117   | 77-123 |
| 76-13-1    | Freon 113                   | 50          | 46.3      | 93    | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250         | 319       | 128   | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50          | 58.2      | 116   | 80-136 |
| 79-20-9    | Methyl Acetate              | 250         | 311       | 124   | 67-137 |
| 74-83-9    | Methyl Bromide              | 50          | 57.4      | 115   | 65-139 |
| 74-87-3    | Methyl Chloride             | 50          | 52.2      | 104   | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50          | 58.3      | 117   | 75-128 |
| 75-09-2    | Methylene Chloride          | 50          | 62.3      | 125   | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250         | 310       | 124   | 76-132 |

\* = Outside of Control Limits.

5.2.3  
5

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-BS | F0098965.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-7, FA80928-8, FA80928-9, FA80928-10, FA80928-11, FA80928-13, FA80928-15, FA80928-16, FA80928-19, FA80928-20, FA80928-21, FA80928-22, FA80928-24

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 53.9      | 108   | 77-120 |
| 100-42-5  | Styrene                   | 50          | 55.7      | 111   | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 57.5      | 115   | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 54.3      | 109   | 79-130 |
| 108-88-3  | Toluene                   | 50          | 58.0      | 116   | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 55.1      | 110   | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 58.7      | 117   | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 56.8      | 114   | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 55.0      | 110   | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 53.0      | 106   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 54.7      | 109   | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 173       | 115   | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%  | 72-135% |
| 2037-26-5  | Toluene-D8            | 105% | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 71-133% |

\* = Outside of Control Limits.

5.2.3  
5



# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-BS | 3C12217.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-8, FA80928-9, FA80928-10, FA80928-12, FA80928-18, FA80928-20, FA80928-21, FA80928-22, FA80928-23, FA80928-24

| CAS No.    | Compound                    | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|------------|-----------------------------|-------------|-----------|-------|--------|
| 67-64-1    | Acetone                     | 250         | 223       | 89    | 61-152 |
| 71-43-2    | Benzene                     | 50          | 48.5      | 97    | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50          | 53.3      | 107   | 74-130 |
| 75-25-2    | Bromoform                   | 50          | 54.4      | 109   | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250         | 241       | 96    | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50          | 43.9      | 88    | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50          | 50.6      | 101   | 78-133 |
| 108-90-7   | Chlorobenzene               | 50          | 53.2      | 106   | 81-129 |
| 75-00-3    | Chloroethane                | 50          | 53.3      | 107   | 68-133 |
| 67-66-3    | Chloroform                  | 50          | 50.6      | 101   | 72-123 |
| 110-82-7   | Cyclohexane                 | 50          | 44.7      | 89    | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50          | 55.5      | 111   | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50          | 54.2      | 108   | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50          | 54.6      | 109   | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50          | 36.3      | 73    | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50          | 55.3      | 111   | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50          | 55.5      | 111   | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50          | 54.3      | 109   | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50          | 52.1      | 104   | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50          | 48.7      | 97    | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50          | 51.3      | 103   | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50          | 49.5      | 99    | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50          | 49.6      | 99    | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50          | 48.5      | 97    | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50          | 48.1      | 96    | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50          | 54.4      | 109   | 75-131 |
| 100-41-4   | Ethylbenzene                | 50          | 53.6      | 107   | 77-123 |
| 76-13-1    | Freon 113                   | 50          | 40.4      | 81    | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250         | 279       | 112   | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50          | 54.5      | 109   | 80-136 |
| 79-20-9    | Methyl Acetate              | 250         | 238       | 95    | 67-137 |
| 74-83-9    | Methyl Bromide              | 50          | 49.9      | 100   | 65-139 |
| 74-87-3    | Methyl Chloride             | 50          | 47.3      | 95    | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50          | 46.1      | 92    | 75-128 |
| 75-09-2    | Methylene Chloride          | 50          | 52.4      | 105   | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250         | 277       | 111   | 76-132 |

\* = Outside of Control Limits.

5.2.4  
5

# Blank Spike Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-BS | 3C12217.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-8, FA80928-9, FA80928-10, FA80928-12, FA80928-18, FA80928-20, FA80928-21, FA80928-22, FA80928-23, FA80928-24

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 47.1      | 94    | 77-120 |
| 100-42-5  | Styrene                   | 50          | 54.8      | 110   | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 56.7      | 113   | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 55.6      | 111   | 79-130 |
| 108-88-3  | Toluene                   | 50          | 51.7      | 103   | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 53.3      | 107   | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 52.2      | 104   | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 53.9      | 108   | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 47.6      | 95    | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 54.8      | 110   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 49.6      | 99    | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 162       | 108   | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 72-135% |
| 2037-26-5  | Toluene-D8            | 106% | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%  | 71-133% |

\* = Outside of Control Limits.

5.2.4  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-1MS  | 3C12044.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |
| FA80928-1MSD | 3C12045.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |
| FA80928-1    | 3C12038.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5

| CAS No.    | Compound                    | FA80928-1<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD  | Limits<br>Rec/RPD |           |
|------------|-----------------------------|--------------------|---------------------|-------------|---------|----------------|--------------|----------|------|-------------------|-----------|
| 67-64-1    | Acetone                     | 312                |                     | 307         | 27*     | 306            | 409          | 32*      | 3    | 61-152/27         |           |
| 71-43-2    | Benzene                     | 40.5               |                     | 61.4        | 29*     | 61.3           | 56.9         | 27*      | 3    | 76-126/26         |           |
| 75-27-4    | Bromodichloromethane        | ND                 |                     | 61.4        | 94      | 61.3           | 56.9         | 93       | 1    | 74-130/25         |           |
| 75-25-2    | Bromoform                   | ND                 |                     | 61.4        | 78      | 61.3           | 48.8         | 80       | 1    | 76-127/26         |           |
| 78-93-3    | 2-Butanone (MEK)            | 29.6               |                     | 307         | 87      | 306            | 296          | 87       | 0    | 75-137/25         |           |
| 75-15-0    | Carbon Disulfide            | 2.3                | J                   | 61.4        | 79      | 61.3           | 49.8         | 78       | 2    | 72-122/29         |           |
| 56-23-5    | Carbon Tetrachloride        | ND                 |                     | 61.4        | 91      | 61.3           | 58.3         | 95       | 4    | 78-133/29         |           |
| 108-90-7   | Chlorobenzene               | 116                |                     | 61.4        | 76.4    | -64*           | 61.3         | 75.2     | -67* | 2                 | 81-129/29 |
| 75-00-3    | Chloroethane                | ND                 |                     | 61.4        | 66.9    | 109            | 61.3         | 66.4     | 108  | 1                 | 68-133/29 |
| 67-66-3    | Chloroform                  | ND                 |                     | 61.4        | 59.1    | 96             | 61.3         | 57.2     | 93   | 3                 | 72-123/26 |
| 110-82-7   | Cyclohexane                 | 12.8               |                     | 61.4        | 53.0    | 65*            | 61.3         | 51.6     | 63*  | 3                 | 73-126/32 |
| 124-48-1   | Dibromochloromethane        | ND                 |                     | 61.4        | 50.5    | 82             | 61.3         | 50.0     | 82   | 1                 | 76-127/27 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                 |                     | 61.4        | 42.4    | 69*            | 61.3         | 42.9     | 70   | 1                 | 70-137/29 |
| 106-93-4   | 1,2-Dibromoethane           | ND                 |                     | 61.4        | 52.4    | 85             | 61.3         | 51.1     | 83   | 3                 | 77-126/26 |
| 75-71-8    | Dichlorodifluoromethane     | ND                 |                     | 61.4        | 29.8    | 49*            | 61.3         | 28.7     | 47*  | 4                 | 68-168/29 |
| 95-50-1    | 1,2-Dichlorobenzene         | 24.8               |                     | 61.4        | 58.2    | 54*            | 61.3         | 51.7     | 44*  | 12                | 80-129/32 |
| 541-73-1   | 1,3-Dichlorobenzene         | 4.7                |                     | 61.4        | 45.2    | 66*            | 61.3         | 42.4     | 62*  | 6                 | 81-129/33 |
| 106-46-7   | 1,4-Dichlorobenzene         | 57.5               |                     | 61.4        | 67.2    | 16*            | 61.3         | 64.5     | 11*  | 4                 | 76-130/32 |
| 75-34-3    | 1,1-Dichloroethane          | 1.8                | J                   | 61.4        | 59.0    | 93             | 61.3         | 57.5     | 91   | 3                 | 73-125/27 |
| 107-06-2   | 1,2-Dichloroethane          | ND                 |                     | 61.4        | 56.3    | 92             | 61.3         | 54.9     | 90   | 3                 | 74-128/23 |
| 75-35-4    | 1,1-Dichloroethylene        | ND                 |                     | 61.4        | 58.4    | 95             | 61.3         | 57.8     | 94   | 1                 | 81-136/28 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 3.5                | J                   | 61.4        | 58.0    | 89             | 61.3         | 56.0     | 86   | 4                 | 74-126/26 |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                 |                     | 61.4        | 57.6    | 94             | 61.3         | 55.6     | 91   | 4                 | 70-127/27 |
| 78-87-5    | 1,2-Dichloropropane         | ND                 |                     | 61.4        | 56.4    | 92             | 61.3         | 54.6     | 89   | 3                 | 74-125/25 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                 |                     | 61.4        | 52.5    | 86             | 61.3         | 50.3     | 82   | 4                 | 80-123/26 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                 |                     | 61.4        | 52.9    | 86             | 61.3         | 51.3     | 84   | 3                 | 75-131/28 |
| 76-13-1    | Freon 113                   | ND                 |                     | 61.4        | 44.7    | 73             | 61.3         | 43.5     | 71   | 3                 | 71-129/30 |
| 591-78-6   | 2-Hexanone                  | ND                 |                     | 307         | 267     | 87             | 306          | 269      | 88   | 1                 | 72-133/26 |
| 98-82-8    | Isopropylbenzene            | 17.1               |                     | 61.4        | 56.7    | 64*            | 61.3         | 53.4     | 59*  | 6                 | 80-136/32 |
| 79-20-9    | Methyl Acetate              | ND                 |                     | 307         | 307     | 100            | 306          | 320      | 104  | 4                 | 67-137/30 |
| 74-83-9    | Methyl Bromide              | ND                 |                     | 61.4        | 51.2    | 83             | 61.3         | 51.1     | 83   | 0                 | 65-139/31 |
| 74-87-3    | Methyl Chloride             | ND                 |                     | 61.4        | 42.1    | 69*            | 61.3         | 39.8     | 65*  | 6                 | 71-144/27 |
| 108-87-2   | Methylcyclohexane           | 5.7                |                     | 61.4        | 53.0    | 77             | 61.3         | 51.9     | 75   | 2                 | 75-128/31 |
| 75-09-2    | Methylene Chloride          | ND                 |                     | 61.4        | 48.8    | 79             | 61.3         | 46.7     | 76   | 4                 | 74-137/28 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                 |                     | 307         | 277     | 90             | 306          | 276      | 90   | 0                 | 76-132/26 |
| 1634-04-4  | Methyl Tert Butyl Ether     | ND                 |                     | 61.4        | 59.0    | 96             | 61.3         | 57.4     | 94   | 3                 | 77-120/24 |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-1MS  | 3C12044.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |
| FA80928-1MSD | 3C12045.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |
| FA80928-1    | 3C12038.D | 1  | 11/19/20 | SP | n/a       | n/a        | V3C506           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-1, FA80928-2, FA80928-3, FA80928-4, FA80928-5

| CAS No.  | Compound                  | FA80928-1<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|----------|---------------------------|--------------------|---------------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 100-42-5 | Styrene                   | ND                 | 61.4                | 51.1        | 83      | 61.3           | 47.5         | 78       | 7   | 78-125/30         |
| 79-34-5  | 1,1,2,2-Tetrachloroethane | ND                 | 61.4                | 47.0        | 77      | 61.3           | 46.1         | 75       | 2   | 71-126/30         |
| 127-18-4 | Tetrachloroethylene       | ND                 | 61.4                | 57.1        | 93      | 61.3           | 55.4         | 90       | 3   | 79-130/31         |
| 108-88-3 | Toluene                   | 90.8               | 61.4                | 68.4        | -36*    | 61.3           | 61.8         | -47*     | 10  | 76-124/30         |
| 120-82-1 | 1,2,4-Trichlorobenzene    | ND                 | 61.4                | 40.0        | 65*     | 61.3           | 37.0         | 60*      | 8   | 78-130/34         |
| 71-55-6  | 1,1,1-Trichloroethane     | ND                 | 61.4                | 59.5        | 97      | 61.3           | 59.2         | 97       | 1   | 70-129/27         |
| 79-00-5  | 1,1,2-Trichloroethane     | ND                 | 61.4                | 56.0        | 91      | 61.3           | 54.1         | 88       | 3   | 74-124/28         |
| 79-01-6  | Trichloroethylene         | ND                 | 61.4                | 59.1        | 96      | 61.3           | 57.0         | 93       | 4   | 75-128/27         |
| 75-69-4  | Trichlorofluoromethane    | ND                 | 61.4                | 64.4        | 105     | 61.3           | 63.6         | 104      | 1   | 73-145/31         |
| 75-01-4  | Vinyl Chloride            | 2.5                | J<br>61.4           | 45.8        | 71*     | 61.3           | 43.9         | 68*      | 4   | 76-141/27         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80928-1 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 101% | 101%      | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 105% | 107%      | 72-135% |
| 2037-26-5  | Toluene-D8            | 95%  | 95%  | 100%      | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 93%  | 88%       | 71-133% |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS            | F0098987.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18MSD           | F0098988.D | 1  | 11/22/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18 <sup>a</sup> | F0098976.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-7, FA80928-8, FA80928-9, FA80928-10, FA80928-11, FA80928-13, FA80928-15, FA80928-16, FA80928-19, FA80928-20, FA80928-21, FA80928-22, FA80928-24

| CAS No.    | Compound                    | FA80928-18 Spike |        | MS ug/kg | MS %               | Spike ug/kg | MSD ug/kg | MSD %              | RPD | Limits Rec/RPD |
|------------|-----------------------------|------------------|--------|----------|--------------------|-------------|-----------|--------------------|-----|----------------|
|            |                             | ug/kg            | Q      |          |                    |             |           |                    |     |                |
| 67-64-1    | Acetone                     | 212              | 299    | 484      | 91                 | 298         | 540       | 110                | 11  | 61-152/27      |
| 71-43-2    | Benzene                     | 10.8             | 59.8   | 65.3     | 91                 | 59.7        | 63.9      | 89                 | 2   | 76-126/26      |
| 75-27-4    | Bromodichloromethane        | ND               | 59.8   | 61.1     | 102                | 59.7        | 58.6      | 98                 | 4   | 74-130/25      |
| 75-25-2    | Bromoform                   | ND               | 59.8   | 53.6     | 90                 | 59.7        | 56.2      | 94                 | 5   | 76-127/26      |
| 78-93-3    | 2-Butanone (MEK)            | ND               | 299    | 304      | 102                | 298         | 325       | 109                | 7   | 75-137/25      |
| 75-15-0    | Carbon Disulfide            | 1.7              | J 59.8 | 65.9     | 107                | 59.7        | 65.3      | 107                | 1   | 72-122/29      |
| 56-23-5    | Carbon Tetrachloride        | ND               | 59.8   | 66.0     | 110                | 59.7        | 66.1      | 111                | 0   | 78-133/29      |
| 108-90-7   | Chlorobenzene               | 3.9              | 59.8   | 60.0     | 94                 | 59.7        | 60.1      | 94                 | 0   | 81-129/29      |
| 75-00-3    | Chloroethane                | ND               | 59.8   | 67.4     | 113                | 59.7        | 79.0      | 132                | 16  | 68-133/29      |
| 67-66-3    | Chloroform                  | ND               | 59.8   | 62.7     | 105                | 59.7        | 62.8      | 105                | 0   | 72-123/26      |
| 110-82-7   | Cyclohexane                 | 5.8              | 59.8   | 64.9     | 99                 | 59.7        | 64.6      | 99                 | 0   | 73-126/32      |
| 124-48-1   | Dibromochloromethane        | ND               | 59.8   | 56.6     | 95                 | 59.7        | 55.6      | 93                 | 2   | 76-127/27      |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND               | 59.8   | 54.4     | 91                 | 59.7        | 57.3      | 96                 | 5   | 70-137/29      |
| 106-93-4   | 1,2-Dibromoethane           | ND               | 59.8   | 54.0     | 90                 | 59.7        | 54.6      | 92                 | 1   | 77-126/26      |
| 75-71-8    | Dichlorodifluoromethane     | ND               | 59.8   | 41.8     | 70                 | 59.7        | 40.3      | 68                 | 4   | 68-168/29      |
| 95-50-1    | 1,2-Dichlorobenzene         | 3.0              | J 59.8 | 53.3     | 84                 | 59.7        | 53.0      | 84                 | 1   | 80-129/32      |
| 541-73-1   | 1,3-Dichlorobenzene         | ND               | 59.8   | 55.4     | 93                 | 59.7        | 54.4      | 91                 | 2   | 81-129/33      |
| 106-46-7   | 1,4-Dichlorobenzene         | ND               | 59.8   | 54.1     | 90                 | 59.7        | 52.9      | 89                 | 2   | 76-130/32      |
| 75-34-3    | 1,1-Dichloroethane          | ND               | 59.8   | 67.5     | 113                | 59.7        | 66.1      | 111                | 2   | 73-125/27      |
| 107-06-2   | 1,2-Dichloroethane          | ND               | 59.8   | 53.9     | 90                 | 59.7        | 52.7      | 88                 | 2   | 74-128/23      |
| 75-35-4    | 1,1-Dichloroethylene        | ND               | 59.8   | 69.7     | 117                | 59.7        | 68.6      | 115                | 2   | 81-136/28      |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND               | 59.8   | 63.5     | 106                | 59.7        | 63.8      | 107                | 0   | 74-126/26      |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND               | 59.8   | 66.3     | 111                | 59.7        | 65.7      | 110                | 1   | 70-127/27      |
| 78-87-5    | 1,2-Dichloropropane         | ND               | 59.8   | 62.1     | 104                | 59.7        | 59.9      | 100                | 4   | 74-125/25      |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND               | 59.8   | 55.4     | 93                 | 59.7        | 53.8      | 90                 | 3   | 80-123/26      |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND               | 59.8   | 54.5     | 91                 | 59.7        | 55.0      | 92                 | 1   | 75-131/28      |
| 100-41-4   | Ethylbenzene                | 13.5             | 59.8   | 65.4     | 87                 | 59.7        | 65.8      | 88                 | 1   | 77-123/31      |
| 76-13-1    | Freon 113                   | ND               | 59.8   | 53.5     | 89                 | 59.7        | 55.4      | 93                 | 3   | 71-129/30      |
| 591-78-6   | 2-Hexanone                  | ND               | 299    | 306      | 102                | 298         | 319       | 107                | 4   | 72-133/26      |
| 98-82-8    | Isopropylbenzene            | 149              | E 59.8 | 83.1     | -110* <sup>b</sup> | 59.7        | 78.0      | -119* <sup>b</sup> | 6   | 80-136/32      |
| 79-20-9    | Methyl Acetate              | ND               | 299    | 406      | 136                | 298         | 418       | 140* <sup>b</sup>  | 3   | 67-137/30      |
| 74-83-9    | Methyl Bromide              | ND               | 59.8   | 58.2     | 97                 | 59.7        | 62.0      | 104                | 6   | 65-139/31      |
| 74-87-3    | Methyl Chloride             | ND               | 59.8   | 58.2     | 97                 | 59.7        | 53.4      | 89                 | 9   | 71-144/27      |
| 108-87-2   | Methylcyclohexane           | 138              | E 59.8 | 73.1     | -109* <sup>b</sup> | 59.7        | 68.8      | -116* <sup>b</sup> | 6   | 75-128/31      |
| 75-09-2    | Methylene Chloride          | 8.7              | J 59.8 | 64.3     | 93                 | 59.7        | 61.9      | 89                 | 4   | 74-137/28      |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND               | 299    | 388      | 130                | 298         | 363       | 122                | 7   | 76-132/26      |

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS            | F0098987.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18MSD           | F0098988.D | 1  | 11/22/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18 <sup>a</sup> | F0098976.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-7, FA80928-8, FA80928-9, FA80928-10, FA80928-11, FA80928-13, FA80928-15, FA80928-16, FA80928-19, FA80928-20, FA80928-21, FA80928-22, FA80928-24

| CAS No.   | Compound                  | FA80928-18<br>ug/kg | Spike<br>Q | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD  | Limits<br>Rec/RPD |           |
|-----------|---------------------------|---------------------|------------|-------------|---------|----------------|--------------|----------|------|-------------------|-----------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                  |            | 59.8        | 52.7    | 88             | 59.7         | 52.7     | 88   | 0                 | 77-120/24 |
| 100-42-5  | Styrene                   | ND                  |            | 59.8        | 55.4    | 93             | 59.7         | 54.5     | 91   | 2                 | 78-125/30 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                  |            | 59.8        | 57.2    | 96             | 59.7         | 56.6     | 95   | 1                 | 71-126/30 |
| 127-18-4  | Tetrachloroethylene       | ND                  |            | 59.8        | 61.6    | 103            | 59.7         | 60.8     | 102  | 1                 | 79-130/31 |
| 108-88-3  | Toluene                   | ND                  |            | 59.8        | 63.8    | 107            | 59.7         | 63.3     | 106  | 1                 | 76-124/30 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                  |            | 59.8        | 45.5    | 76*            | 59.7         | 46.9     | 79   | 3                 | 78-130/34 |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                  |            | 59.8        | 64.8    | 108            | 59.7         | 66.4     | 111  | 2                 | 70-129/27 |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                  |            | 59.8        | 253     | 423*           | 59.7         | 177      | 297* | 35*               | 74-124/28 |
| 79-01-6   | Trichloroethylene         | ND                  |            | 59.8        | 63.8    | 107            | 59.7         | 63.5     | 106  | 0                 | 75-128/27 |
| 75-69-4   | Trichlorofluoromethane    | ND                  |            | 59.8        | 62.4    | 104            | 59.7         | 65.4     | 110  | 5                 | 73-145/31 |
| 75-01-4   | Vinyl Chloride            | ND                  |            | 59.8        | 63.1    | 106            | 59.7         | 61.3     | 103  | 3                 | 76-141/27 |
| 1330-20-7 | Xylene (total)            | 6.6                 | J          | 179         | 182     | 98             | 179          | 184      | 99   | 1                 | 80-129/30 |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80928-18 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 98%  | 104%       | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94%  | 92%  | 94%        | 72-135% |
| 2037-26-5  | Toluene-D8            | 104% | 103% | 147% * c   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 92%  | 84%        | 71-133% |

- (a) Confirmation run for surrogate recoveries.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS  | 3C12237.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18MSD | 3C12238.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18    | 3C12224.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-8, FA80928-9, FA80928-10, FA80928-12, FA80928-18, FA80928-20, FA80928-21, FA80928-22, FA80928-23, FA80928-24

| CAS No.    | Compound                    | FA80928-18<br>ug/kg | Spike<br>Q | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg     | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|---------------------|------------|-------------|---------|--------------------|--------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                  |            | 299         | 365     | 122                | 298          | 371      | 2   | 61-152/27         |
| 71-43-2    | Benzene                     | 8.5                 |            | 59.8        | 51.5    | 72*                | 59.7         | 52.7     | 2   | 76-126/26         |
| 75-27-4    | Bromodichloromethane        | ND                  |            | 59.8        | 50.3    | 84                 | 59.7         | 51.3     | 2   | 74-130/25         |
| 75-25-2    | Bromoform                   | ND                  |            | 59.8        | 46.9    | 78                 | 59.7         | 48.6     | 4   | 76-127/26         |
| 78-93-3    | 2-Butanone (MEK)            | ND                  |            | 299         | 263     | 88                 | 298          | 267      | 2   | 75-137/25         |
| 75-15-0    | Carbon Disulfide            | 0.89                | J          | 59.8        | 54.2    | 89                 | 59.7         | 54.4     | 0   | 72-122/29         |
| 56-23-5    | Carbon Tetrachloride        | ND                  |            | 59.8        | 57.4    | 96                 | 59.7         | 60.5     | 5   | 78-133/29         |
| 108-90-7   | Chlorobenzene               | ND                  |            | 59.8        | 53.5    | 89                 | 59.7         | 54.3     | 1   | 81-129/29         |
| 75-00-3    | Chloroethane                | ND                  |            | 59.8        | 67.4    | 113                | 59.7         | 65.5     | 3   | 68-133/29         |
| 67-66-3    | Chloroform                  | ND                  |            | 59.8        | 52.7    | 88                 | 59.7         | 52.8     | 0   | 72-123/26         |
| 110-82-7   | Cyclohexane                 | 4.0                 |            | 59.8        | 56.1    | 87                 | 59.7         | 57.7     | 3   | 73-126/32         |
| 124-48-1   | Dibromochloromethane        | ND                  |            | 59.8        | 48.3    | 81                 | 59.7         | 49.9     | 3   | 76-127/27         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                  |            | 59.8        | 50.6    | 85                 | 59.7         | 53.5     | 6   | 70-137/29         |
| 106-93-4   | 1,2-Dibromoethane           | ND                  |            | 59.8        | 49.4    | 83                 | 59.7         | 49.7     | 1   | 77-126/26         |
| 75-71-8    | Dichlorodifluoromethane     | ND                  |            | 59.8        | 55.1    | 92                 | 59.7         | 54.0     | 2   | 68-168/29         |
| 95-50-1    | 1,2-Dichlorobenzene         | 2.1                 | J          | 59.8        | 48.9    | 78*                | 59.7         | 49.8     | 2   | 80-129/32         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                  |            | 59.8        | 51.4    | 86                 | 59.7         | 52.8     | 3   | 81-129/33         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                  |            | 59.8        | 50.1    | 84                 | 59.7         | 50.9     | 2   | 76-130/32         |
| 75-34-3    | 1,1-Dichloroethane          | ND                  |            | 59.8        | 55.9    | 93                 | 59.7         | 56.1     | 0   | 73-125/27         |
| 107-06-2   | 1,2-Dichloroethane          | ND                  |            | 59.8        | 47.1    | 79                 | 59.7         | 46.7     | 1   | 74-128/23         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                  |            | 59.8        | 62.4    | 104                | 59.7         | 62.5     | 0   | 81-136/28         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                  |            | 59.8        | 50.5    | 84                 | 59.7         | 51.9     | 3   | 74-126/26         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                  |            | 59.8        | 57.0    | 95                 | 59.7         | 57.2     | 0   | 70-127/27         |
| 78-87-5    | 1,2-Dichloropropane         | ND                  |            | 59.8        | 48.3    | 81                 | 59.7         | 48.5     | 0   | 74-125/25         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                  |            | 59.8        | 44.4    | 74*                | 59.7         | 45.4     | 2   | 80-123/26         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                  |            | 59.8        | 47.8    | 80                 | 59.7         | 48.0     | 0   | 75-131/28         |
| 100-41-4   | Ethylbenzene                | 8.9                 |            | 59.8        | 58.8    | 83                 | 59.7         | 59.3     | 1   | 77-123/31         |
| 76-13-1    | Freon 113                   | ND                  |            | 59.8        | 55.6    | 93                 | 59.7         | 55.7     | 0   | 71-129/30         |
| 591-78-6   | 2-Hexanone                  | ND                  |            | 299         | 298     | 100                | 298          | 304      | 2   | 72-133/26         |
| 98-82-8    | Isopropylbenzene            | 134                 |            | 59.8        | 60.0    | -124* <sup>a</sup> | 59.7         | 62.9     | 5   | 80-136/32         |
| 79-20-9    | Methyl Acetate              | ND                  |            | 299         | 257     | 86                 | 298          | 264      | 3   | 67-137/30         |
| 74-83-9    | Methyl Bromide              | ND                  |            | 59.8        | 49.5    | 83                 | 59.7         | 54.4     | 9   | 65-139/31         |
| 74-87-3    | Methyl Chloride             | ND                  |            | 59.8        | 56.6    | 95                 | 59.7         | 55.5     | 2   | 71-144/27         |
| 108-87-2   | Methylcyclohexane           | 90.8                |            | 59.8        | 61.7    | -49*               | 59.7         | 64.2     | 4   | 75-128/31         |
| 75-09-2    | Methylene Chloride          | ND                  |            | 59.8        | 52.2    | 87                 | 59.7         | 51.5     | 1   | 74-137/28         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                  |            | 299         | 283     | 95                 | 298          | 289      | 2   | 76-132/26         |

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80928  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS  | 3C12237.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18MSD | 3C12238.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18    | 3C12224.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80928-8, FA80928-9, FA80928-10, FA80928-12, FA80928-18, FA80928-20, FA80928-21, FA80928-22, FA80928-23, FA80928-24

| CAS No.   | Compound                  | FA80928-18<br>ug/kg | Spike<br>Q | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|-----------|---------------------------|---------------------|------------|-------------|---------|----------------|--------------|----------|-----|-------------------|-----------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                  |            | 59.8        | 44.3    | 74*            | 59.7         | 44.6     | 75* | 1                 | 77-120/24 |
| 100-42-5  | Styrene                   | ND                  |            | 59.8        | 52.5    | 88             | 59.7         | 53.9     | 90  | 3                 | 78-125/30 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                  |            | 59.8        | 52.4    | 88             | 59.7         | 54.3     | 91  | 4                 | 71-126/30 |
| 127-18-4  | Tetrachloroethylene       | ND                  |            | 59.8        | 61.2    | 102            | 59.7         | 63.7     | 107 | 4                 | 79-130/31 |
| 108-88-3  | Toluene                   | ND                  |            | 59.8        | 55.0    | 92             | 59.7         | 56.1     | 94  | 2                 | 76-124/30 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                  |            | 59.8        | 49.4    | 83             | 59.7         | 49.2     | 82  | 0                 | 78-130/34 |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                  |            | 59.8        | 60.4    | 101            | 59.7         | 60.9     | 102 | 1                 | 70-129/27 |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                  |            | 59.8        | 52.6    | 88             | 59.7         | 55.2     | 93  | 5                 | 74-124/28 |
| 79-01-6   | Trichloroethylene         | ND                  |            | 59.8        | 54.1    | 90             | 59.7         | 55.6     | 93  | 3                 | 75-128/27 |
| 75-69-4   | Trichlorofluoromethane    | ND                  |            | 59.8        | 72.4    | 121            | 59.7         | 71.3     | 119 | 2                 | 73-145/31 |
| 75-01-4   | Vinyl Chloride            | ND                  |            | 59.8        | 59.8    | 100            | 59.7         | 61.1     | 102 | 2                 | 76-141/27 |
| 1330-20-7 | Xylene (total)            | 4.3                 | J          | 179         | 179     | 97             | 179          | 178      | 97  | 1                 | 80-129/30 |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80928-18 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 100% | 97%        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 115% | 107%       | 72-135% |
| 2037-26-5  | Toluene-D8            | 103% | 103% | 107%       | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%  | 98%  | 92%        | 71-133% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.3  
5



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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

ARCADIS Geraghty & Miller

Brenntag; Charleston, SC

SC000204.0011.00001

SGS Job Number: FA80977

Sampling Date: 11/18/20

Report to:

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Total number of pages in report: **80**



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

Norm Farmer  
Technical Director

Client Service contact: Evita Martinez 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA80977

Brenntag; Charleston, SC  
 Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

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

|            |          |       |    |          |    |      |            |
|------------|----------|-------|----|----------|----|------|------------|
| FA80977-1  | 11/18/20 | 08:35 | CL | 11/19/20 | SO | Soil | A2-11 (3') |
| FA80977-2  | 11/18/20 | 08:39 | CL | 11/19/20 | SO | Soil | A2-11 (5') |
| FA80977-3  | 11/18/20 | 09:09 | CL | 11/19/20 | SO | Soil | A2-12 (3') |
| FA80977-4  | 11/18/20 | 09:13 | CL | 11/19/20 | SO | Soil | A2-12 (6') |
| FA80977-5  | 11/18/20 | 09:42 | CL | 11/19/20 | SO | Soil | A2-15 (3') |
| FA80977-6  | 11/18/20 | 09:45 | CL | 11/19/20 | SO | Soil | A2-15 (5') |
| FA80977-7  | 11/18/20 | 10:37 | CL | 11/19/20 | SO | Soil | A2-16 (3') |
| FA80977-8  | 11/18/20 | 10:40 | CL | 11/19/20 | SO | Soil | A2-16 (5') |
| FA80977-9  | 11/18/20 | 11:07 | CL | 11/19/20 | SO | Soil | A2-17 (3') |
| FA80977-10 | 11/18/20 | 11:09 | CL | 11/19/20 | SO | Soil | A2-17 (5') |
| FA80977-11 | 11/18/20 | 11:38 | CL | 11/19/20 | SO | Soil | A2-18 (3') |
| FA80977-12 | 11/18/20 | 11:42 | CL | 11/19/20 | SO | Soil | A2-18 (5') |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

ARCADIS Geraghty & Miller

**Job No:** FA80977

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected |          | Received | Matrix |      | Client Sample ID |
|---------------|-----------|----------|----------|--------|------|------------------|
|               | Date      | Time By  |          | Code   | Type |                  |
| FA80977-13    | 11/18/20  | 12:16 CL | 11/19/20 | SO     | Soil | A2-19 (3')       |
| FA80977-14    | 11/18/20  | 12:20 CL | 11/19/20 | SO     | Soil | A2-19 (5')       |
| FA80977-15    | 11/18/20  | 13:53 CL | 11/19/20 | SO     | Soil | A2-22 (3')       |
| FA80977-16    | 11/18/20  | 13:55 CL | 11/19/20 | SO     | Soil | A2-22 (6')       |
| FA80977-17    | 11/18/20  | 14:23 CL | 11/19/20 | SO     | Soil | A2-21 (3')       |
| FA80977-18    | 11/18/20  | 14:25 CL | 11/19/20 | SO     | Soil | A2-21 (5')       |
| FA80977-19    | 11/18/20  | 14:53 CL | 11/19/20 | SO     | Soil | A2-23 (3')       |
| FA80977-20    | 11/18/20  | 14:55 CL | 11/19/20 | SO     | Soil | A2-23 (5')       |
| FA80977-21    | 11/18/20  | 15:35 CL | 11/19/20 | SO     | Soil | A2-24 (3')       |
| FA80977-22    | 11/18/20  | 15:39 CL | 11/19/20 | SO     | Soil | A2-24 (6')       |
| FA80977-23    | 11/18/20  | 16:10 CL | 11/19/20 | SO     | Soil | A2-25 (3')       |
| FA80977-24    | 11/18/20  | 16:15 CL | 11/19/20 | SO     | Soil | A2-25 (5')       |

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** FA80977  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/18/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80977-1 A2-11 (3')**

|                          |        |     |      |       |             |
|--------------------------|--------|-----|------|-------|-------------|
| Acetone                  | 75.0 J | 150 | 73   | ug/kg | SW846 8260D |
| Benzene                  | 1.3 J  | 3.7 | 0.89 | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         | 8.1 J  | 18  | 5.3  | ug/kg | SW846 8260D |
| Carbon Disulfide         | 1.2 J  | 3.7 | 0.73 | ug/kg | SW846 8260D |
| Chlorobenzene            | 28.8   | 3.7 | 0.73 | ug/kg | SW846 8260D |
| Cyclohexane              | 1.9 J  | 3.7 | 0.91 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      | 2.5 J  | 3.7 | 0.73 | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene      | 1.1 J  | 3.7 | 0.73 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      | 3.4 J  | 3.7 | 0.84 | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene | 1.2 J  | 3.7 | 1.0  | ug/kg | SW846 8260D |
| Ethylbenzene             | 1.7 J  | 3.7 | 0.73 | ug/kg | SW846 8260D |
| Methylcyclohexane        | 4.0    | 3.7 | 1.2  | ug/kg | SW846 8260D |
| Vinyl Chloride           | 2.4 J  | 3.7 | 0.73 | ug/kg | SW846 8260D |
| Xylene (total)           | 2.7 J  | 11  | 1.5  | ug/kg | SW846 8260D |

**FA80977-2 A2-11 (5')**

|               |      |     |      |       |             |
|---------------|------|-----|------|-------|-------------|
| Chlorobenzene | 16.7 | 3.8 | 0.76 | ug/kg | SW846 8260D |
|---------------|------|-----|------|-------|-------------|

**FA80977-3 A2-12 (3')**

No hits reported in this sample.

**FA80977-4 A2-12 (6')**

|               |       |     |      |       |             |
|---------------|-------|-----|------|-------|-------------|
| Benzene       | 2.1 J | 4.1 | 0.99 | ug/kg | SW846 8260D |
| Chlorobenzene | 4.0 J | 4.1 | 0.81 | ug/kg | SW846 8260D |

**FA80977-5 A2-15 (3')**

No hits reported in this sample.

**FA80977-6 A2-15 (5')**

|                  |       |     |     |       |             |
|------------------|-------|-----|-----|-------|-------------|
| Acetone          | 119 J | 150 | 76  | ug/kg | SW846 8260D |
| 2-Butanone (MEK) | 8.0 J | 19  | 5.5 | ug/kg | SW846 8260D |

**FA80977-7 A2-16 (3')**

No hits reported in this sample.

## Summary of Hits

**Job Number:** FA80977  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/18/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80977-8 A2-16 (5')**

No hits reported in this sample.

**FA80977-9 A2-17 (3')**

No hits reported in this sample.

**FA80977-10 A2-17 (5')**

|                  |        |     |      |       |             |
|------------------|--------|-----|------|-------|-------------|
| Acetone          | 69.9 J | 140 | 69   | ug/kg | SW846 8260D |
| 2-Butanone (MEK) | 7.3 J  | 17  | 5.0  | ug/kg | SW846 8260D |
| Carbon Disulfide | 1.6 J  | 3.4 | 0.69 | ug/kg | SW846 8260D |

**FA80977-11 A2-18 (3')**

No hits reported in this sample.

**FA80977-12 A2-18 (5')**

|                          |       |     |     |       |             |
|--------------------------|-------|-----|-----|-------|-------------|
| cis-1,2-Dichloroethylene | 2.2 J | 4.1 | 1.1 | ug/kg | SW846 8260D |
|--------------------------|-------|-----|-----|-------|-------------|

**FA80977-13 A2-19 (3')**

|                            |        |     |      |       |             |
|----------------------------|--------|-----|------|-------|-------------|
| Acetone                    | 77.0 J | 140 | 71   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)           | 5.5 J  | 18  | 5.1  | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene   | 57.2   | 3.5 | 0.98 | ug/kg | SW846 8260D |
| trans-1,2-Dichloroethylene | 0.76 J | 3.5 | 0.71 | ug/kg | SW846 8260D |
| Trichloroethylene          | 3.5    | 3.5 | 0.71 | ug/kg | SW846 8260D |

**FA80977-14 A2-19 (5')**

|                            |        |     |      |       |             |
|----------------------------|--------|-----|------|-------|-------------|
| cis-1,2-Dichloroethylene   | 70.4   | 4.3 | 1.2  | ug/kg | SW846 8260D |
| trans-1,2-Dichloroethylene | 0.96 J | 4.3 | 0.85 | ug/kg | SW846 8260D |
| Trichloroethylene          | 28.2   | 4.3 | 0.85 | ug/kg | SW846 8260D |
| Vinyl Chloride             | 2.2 J  | 4.3 | 0.85 | ug/kg | SW846 8260D |

**FA80977-15 A2-22 (3')**

No hits reported in this sample.

**FA80977-16 A2-22 (6')**

|                          |       |     |      |       |             |
|--------------------------|-------|-----|------|-------|-------------|
| cis-1,2-Dichloroethylene | 9.1   | 3.4 | 0.95 | ug/kg | SW846 8260D |
| Vinyl Chloride           | 1.3 J | 3.4 | 0.69 | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA80977  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/18/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80977-17**    **A2-21 (3')**

No hits reported in this sample.

**FA80977-18**    **A2-21 (5')**

No hits reported in this sample.

**FA80977-19**    **A2-23 (3')**

|                   |       |     |      |       |             |
|-------------------|-------|-----|------|-------|-------------|
| Trichloroethylene | 2.1 J | 4.1 | 0.82 | ug/kg | SW846 8260D |
|-------------------|-------|-----|------|-------|-------------|

**FA80977-20**    **A2-23 (5')**

|                   |        |     |      |       |             |
|-------------------|--------|-----|------|-------|-------------|
| Carbon Disulfide  | 0.89 J | 3.6 | 0.72 | ug/kg | SW846 8260D |
| Trichloroethylene | 0.94 J | 3.6 | 0.72 | ug/kg | SW846 8260D |

**FA80977-21**    **A2-24 (3')**

|                   |       |     |      |       |             |
|-------------------|-------|-----|------|-------|-------------|
| Trichloroethylene | 9.5   | 3.9 | 0.79 | ug/kg | SW846 8260D |
| Vinyl Chloride    | 1.2 J | 3.9 | 0.79 | ug/kg | SW846 8260D |

**FA80977-22**    **A2-24 (6')**

|                            |       |     |      |       |             |
|----------------------------|-------|-----|------|-------|-------------|
| 2-Butanone (MEK)           | 6.5 J | 17  | 5.1  | ug/kg | SW846 8260D |
| Carbon Disulfide           | 2.8 J | 3.5 | 0.70 | ug/kg | SW846 8260D |
| 1,1-Dichloroethylene       | 2.6 J | 3.5 | 0.70 | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene   | 2090  | 250 | 68   | ug/kg | SW846 8260D |
| trans-1,2-Dichloroethylene | 12.2  | 3.5 | 0.70 | ug/kg | SW846 8260D |
| Trichloroethylene          | 4.7   | 3.5 | 0.70 | ug/kg | SW846 8260D |
| Vinyl Chloride             | 165 J | 250 | 49   | ug/kg | SW846 8260D |

**FA80977-23**    **A2-25 (3')**

|                            |       |     |      |       |             |
|----------------------------|-------|-----|------|-------|-------------|
| Acetone                    | 183   | 130 | 66   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)           | 32.8  | 16  | 4.8  | ug/kg | SW846 8260D |
| Carbon Disulfide           | 1.2 J | 3.3 | 0.66 | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene   | 3.2 J | 3.3 | 0.90 | ug/kg | SW846 8260D |
| trans-1,2-Dichloroethylene | 1.3 J | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Ethylbenzene               | 1.9 J | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Isopropylbenzene           | 1.6 J | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Trichloroethylene          | 59.0  | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Vinyl Chloride             | 5.3   | 3.3 | 0.66 | ug/kg | SW846 8260D |
| Xylene (total)             | 4.7 J | 9.8 | 1.4  | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA80977  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/18/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80977-24**    **A2-25 (5')**

|                            |       |     |      |       |             |
|----------------------------|-------|-----|------|-------|-------------|
| Acetone                    | 122 J | 160 | 81   | ug/kg | SW846 8260D |
| 2-Butanone (MEK)           | 21.0  | 20  | 5.9  | ug/kg | SW846 8260D |
| Carbon Disulfide           | 3.0 J | 4.0 | 0.81 | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene   | 3.4 J | 4.0 | 1.1  | ug/kg | SW846 8260D |
| trans-1,2-Dichloroethylene | 1.1 J | 4.0 | 0.81 | ug/kg | SW846 8260D |
| Trichloroethylene          | 1230  | 290 | 57   | ug/kg | SW846 8260D |
| Vinyl Chloride             | 4.2   | 4.0 | 0.81 | ug/kg | SW846 8260D |
| Xylene (total)             | 1.9 J | 12  | 1.7  | ug/kg | SW846 8260D |



Sample Results

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Report of Analysis

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# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-11 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-1          |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 84.9    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12254.D | 1  | 11/30/20 16:42 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.06 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 75.0   | 150 | 73   | ug/kg | J |
| 71-43-2    | Benzene                     | 1.3    | 3.7 | 0.89 | ug/kg | J |
| 75-27-4    | Bromodichloromethane        | ND     | 3.7 | 0.73 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.7 | 0.73 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | 8.1    | 18  | 5.3  | ug/kg | J |
| 75-15-0    | Carbon Disulfide            | 1.2    | 3.7 | 0.73 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.7 | 0.75 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | 28.8   | 3.7 | 0.73 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.7 | 1.5  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.7 | 0.97 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | 1.9    | 3.7 | 0.91 | ug/kg | J |
| 124-48-1   | Dibromochloromethane        | ND     | 3.7 | 0.73 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.7 | 1.4  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.7 | 0.73 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.7 | 1.5  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 2.5    | 3.7 | 0.73 | ug/kg | J |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.1    | 3.7 | 0.73 | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene         | 3.4    | 3.7 | 0.84 | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.7 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.7 | 0.73 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.7 | 0.73 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.2    | 3.7 | 1.0  | ug/kg | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.7 | 0.73 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.7 | 0.73 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.7 | 0.73 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.7 | 0.73 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | 1.7    | 3.7 | 0.73 | ug/kg | J |
| 76-13-1    | Freon 113                   | ND     | 3.7 | 0.96 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 18  | 5.5  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.7 | 0.73 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 18  | 6.5  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.7 | 1.5  | ug/kg |   |

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

## Report of Analysis

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|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-11 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-1          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.9    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.7 | 1.5  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 4.0    | 3.7 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 15  | 8.0  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 18  | 5.5  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.7 | 0.73 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.7 | 0.73 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.7 | 0.73 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.7 | 0.94 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 15  | 7.3  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.7 | 0.73 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.7 | 0.73 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.7 | 0.73 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.7 | 0.73 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.7 | 1.5  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 2.4    | 3.7 | 0.73 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | 2.7    | 11  | 1.5  | ug/kg | J |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

---

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-11 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-2          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12255.D | 1  | 11/30/20 17:08 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.59 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 150 | 76   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.8 | 0.93 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.8 | 0.76 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 19  | 5.5  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.8 | 0.76 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.8 | 0.78 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | 16.7   | 3.8 | 0.76 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.8 | 1.5  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.8 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.8 | 0.95 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.8 | 0.76 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.8 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.8 | 1.5  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.8 | 0.76 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.8 | 0.76 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.8 | 0.88 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.8 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.8 | 0.76 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.8 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.8 | 0.76 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.8 | 0.76 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.8 | 0.76 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.8 | 0.76 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.8 | 0.76 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.8 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 19  | 5.7  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 19  | 6.8  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.8 | 1.5  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-11 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-2          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.8 | 1.5  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.8 | 1.3  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 15  | 8.4  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 19  | 5.7  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.8 | 0.76 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.8 | 0.76 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.8 | 0.97 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 15  | 7.6  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.8 | 0.76 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.8 | 1.5  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.8 | 0.76 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.6  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

---

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-3          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 87.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12256.D | 1  | 11/30/20 17:34 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.22 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 70   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.5 | 0.85 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.5 | 0.70 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 17  | 5.1  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.5 | 0.70 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.5 | 0.71 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.5 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.5 | 0.92 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.5 | 0.87 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.5 | 0.70 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.5 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.5 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.5 | 0.70 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.5 | 0.70 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.5 | 0.80 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.5 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.5 | 0.70 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.5 | 0.96 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.5 | 0.70 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.5 | 0.70 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.5 | 0.70 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.5 | 0.70 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.5 | 0.70 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.5 | 0.92 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 17  | 5.2  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 17  | 6.2  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.5 | 1.4  | ug/kg |   |

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (3')      |                                |
| <b>Lab Sample ID:</b> FA80977-3          | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 87.5    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.5 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.5 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.6  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.2  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.5 | 0.70 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.5 | 0.70 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.5 | 0.89 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 7.0  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.5 | 0.70 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.5 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.5 | 0.70 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 10  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (6')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-4          |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 81.7    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12257.D | 1  | 11/30/20 18:00 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.54 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 160 | 81   | ug/kg |   |
| 71-43-2    | Benzene                     | 2.1    | 4.1 | 0.99 | ug/kg | J |
| 75-27-4    | Bromodichloromethane        | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 4.1 | 0.81 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 20  | 5.9  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.1 | 0.81 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 4.1 | 0.83 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | 4.0    | 4.1 | 0.81 | ug/kg | J |
| 75-00-3    | Chloroethane                | ND     | 4.1 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 4.1 | 1.1  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 4.1 | 1.0  | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 4.1 | 0.81 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 4.1 | 1.6  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.1 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 4.1 | 0.81 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 4.1 | 0.81 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 4.1 | 0.93 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 4.1 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 4.1 | 0.81 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 4.1 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 4.1 | 0.81 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 4.1 | 0.81 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 4.1 | 0.81 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 4.1 | 0.81 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 4.1 | 0.81 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 4.1 | 1.1  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 6.1  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 7.2  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 4.1 | 1.6  | ug/kg |   |

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (6')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-4          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 81.7    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.1 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 4.1 | 1.4  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 16  | 8.9  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 20  | 6.1  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 4.1 | 0.81 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 4.1 | 0.81 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 4.1 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 16  | 8.1  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.1 | 0.81 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 4.1 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 4.1 | 0.81 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 12  | 1.7  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

---

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-15 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-5          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.9    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12258.D | 1  | 11/30/20 18:27 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.40 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 70   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.5 | 0.86 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.5 | 0.70 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 18  | 5.1  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.5 | 0.70 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.5 | 0.72 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.5 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.5 | 0.93 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.5 | 0.88 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.5 | 0.70 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.5 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.5 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.5 | 0.70 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.5 | 0.70 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.5 | 0.81 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.5 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.5 | 0.70 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.5 | 0.97 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.5 | 0.70 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.5 | 0.70 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.5 | 0.70 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.5 | 0.70 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.5 | 0.70 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.5 | 0.93 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 18  | 5.3  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 18  | 6.2  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.5 | 1.4  | ug/kg |   |

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-15 (3')      |                                |
| <b>Lab Sample ID:</b> FA80977-5          | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 84.9    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.5 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.5 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.7  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 18  | 5.3  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.5 | 0.70 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.5 | 0.70 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.5 | 0.90 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 7.0  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.5 | 0.70 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.5 | 0.70 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.5 | 0.70 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.5 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.5 | 0.70 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-15 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-6          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 81.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12259.D | 1  | 11/30/20 18:53 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.14 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 119    | 150 | 76   | ug/kg | J |
| 71-43-2    | Benzene                     | ND     | 3.8 | 0.92 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.8 | 0.76 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | 8.0    | 19  | 5.5  | ug/kg | J |
| 75-15-0    | Carbon Disulfide            | ND     | 3.8 | 0.76 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.8 | 0.77 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.8 | 1.5  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.8 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.8 | 0.95 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.8 | 0.76 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.8 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.8 | 1.5  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.8 | 0.76 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.8 | 0.76 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.8 | 0.87 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.8 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.8 | 0.76 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.8 | 1.0  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.8 | 0.76 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.8 | 0.76 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.8 | 0.76 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.8 | 0.76 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.8 | 0.76 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.8 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 19  | 5.7  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 19  | 6.7  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.8 | 1.5  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-15 (5')      |                                |
| <b>Lab Sample ID:</b> FA80977-6          | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 81.1    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.8 | 1.5  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.8 | 1.3  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 15  | 8.3  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 19  | 5.7  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.8 | 0.76 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.8 | 0.76 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.8 | 0.97 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 15  | 7.6  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.8 | 0.76 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.8 | 1.5  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.8 | 0.76 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.6  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 101%   |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-7          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12260.D | 1  | 11/30/20 19:19 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.70 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 68   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.4 | 0.83 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.4 | 0.68 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.4 | 0.68 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 17  | 5.0  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.4 | 0.68 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.4 | 0.70 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.4 | 0.68 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.4 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.4 | 0.91 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.4 | 0.85 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.4 | 0.68 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.4 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.4 | 0.68 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.4 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.4 | 0.68 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.4 | 0.68 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.4 | 0.78 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.4 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.4 | 0.68 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.4 | 0.68 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.4 | 0.94 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.4 | 0.68 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.4 | 0.68 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.4 | 0.68 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.4 | 0.68 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.4 | 0.68 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.4 | 0.90 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 17  | 5.1  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.4 | 0.68 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 17  | 6.1  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.4 | 1.4  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (3')      |                                |
| <b>Lab Sample ID:</b> FA80977-7          | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 84.3    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.4 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.4 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.5  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.1  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.4 | 0.68 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.4 | 0.68 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.4 | 0.68 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.4 | 0.87 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 6.8  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.4 | 0.68 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.4 | 0.68 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.4 | 0.68 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.4 | 0.68 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.4 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.4 | 0.68 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 10  | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-8          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 83.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12261.D | 1  | 11/30/20 19:46 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.77 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 150 | 77   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.9 | 0.94 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.9 | 0.77 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.9 | 0.77 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 19  | 5.6  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.9 | 0.77 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.9 | 0.79 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.9 | 0.77 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.9 | 1.5  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.9 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.9 | 0.97 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.9 | 0.77 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.9 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.9 | 0.77 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.9 | 1.5  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.9 | 0.77 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.9 | 0.77 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.9 | 0.89 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.9 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.9 | 0.77 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.9 | 0.77 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.9 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.9 | 0.77 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.9 | 0.77 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.9 | 0.77 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.9 | 0.77 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.9 | 0.77 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.9 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 19  | 5.8  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.9 | 0.77 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 19  | 6.9  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.9 | 1.5  | ug/kg |   |

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



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (5')      |                                |
| <b>Lab Sample ID:</b> FA80977-8          | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 83.1    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.9 | 1.5  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.9 | 1.3  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 15  | 8.5  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 19  | 5.8  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.9 | 0.77 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.9 | 0.77 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.9 | 0.77 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.9 | 0.99 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 15  | 7.7  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.9 | 0.77 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.9 | 0.77 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.9 | 0.77 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.9 | 0.77 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.9 | 1.5  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.9 | 0.77 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 12  | 1.6  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-17 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-9          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12262.D | 1  | 11/30/20 20:12 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.58 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 69   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.5 | 0.84 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.5 | 0.69 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.5 | 0.69 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 17  | 5.0  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.5 | 0.69 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.5 | 0.71 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.5 | 0.69 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.5 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.5 | 0.92 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.5 | 0.87 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.5 | 0.69 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.5 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.5 | 0.69 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.5 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.5 | 0.69 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.5 | 0.69 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.5 | 0.80 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.5 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.5 | 0.69 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.5 | 0.69 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.5 | 0.96 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.5 | 0.69 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.5 | 0.69 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.5 | 0.69 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.5 | 0.69 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.5 | 0.69 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.5 | 0.91 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 17  | 5.2  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.5 | 0.69 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 17  | 6.2  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.5 | 1.4  | ug/kg |   |

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-17 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-9          |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.5 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.5 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.6  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.2  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.5 | 0.69 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.5 | 0.69 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.5 | 0.69 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.5 | 0.89 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 6.9  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.5 | 0.69 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.5 | 0.69 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.5 | 0.69 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.5 | 0.69 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.5 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.5 | 0.69 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 10  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

---

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-17 (5')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-10         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 88.9    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12263.D | 1  | 11/30/20 20:38 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.18 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 69.9   | 140 | 69   | ug/kg | J |
| 71-43-2    | Benzene                     | ND     | 3.4 | 0.84 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.4 | 0.69 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | 7.3    | 17  | 5.0  | ug/kg | J |
| 75-15-0    | Carbon Disulfide            | 1.6    | 3.4 | 0.69 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.4 | 0.70 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.4 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.4 | 0.91 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.4 | 0.86 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.4 | 0.69 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.4 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.4 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.4 | 0.69 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.4 | 0.69 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.4 | 0.79 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.4 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.4 | 0.69 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.4 | 0.95 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.4 | 0.69 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.4 | 0.69 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.4 | 0.69 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.4 | 0.69 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.4 | 0.69 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.4 | 0.91 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 17  | 5.2  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 17  | 6.1  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.4 | 1.4  | ug/kg |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-17 (5')               | <b>Date Sampled:</b>   | 11/18/20 |
| <b>Lab Sample ID:</b>    | FA80977-10               | <b>Date Received:</b>  | 11/19/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 88.9     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.4 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.4 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.6  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.2  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.4 | 0.69 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.4 | 0.69 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.4 | 0.88 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 6.9  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.4 | 0.69 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.4 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.4 | 0.69 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 10  | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-18 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-11         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 81.4    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12264.D | 1  | 11/30/20 21:05 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.12 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 150 | 76   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.8 | 0.92 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.8 | 0.76 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 19  | 5.5  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.8 | 0.76 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.8 | 0.77 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.8 | 1.5  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.8 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.8 | 0.95 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.8 | 0.76 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.8 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.8 | 1.5  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.8 | 0.76 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.8 | 0.76 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.8 | 0.87 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.8 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.8 | 0.76 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.8 | 1.0  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.8 | 0.76 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.8 | 0.76 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.8 | 0.76 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.8 | 0.76 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.8 | 0.76 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.8 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 19  | 5.7  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 19  | 6.7  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.8 | 1.5  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-18 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-11         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 81.4    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.8 | 1.5  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.8 | 1.3  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 15  | 8.3  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 19  | 5.7  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.8 | 0.76 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.8 | 0.76 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.8 | 0.97 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 15  | 7.6  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.8 | 0.76 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.8 | 0.76 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.8 | 0.76 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.8 | 1.5  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.8 | 0.76 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.6  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-18 (5')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-12         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 79.9    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12265.D | 1  | 11/30/20 21:31 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.69 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 160 | 81   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 4.1 | 0.99 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 4.1 | 0.81 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 20  | 5.9  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.1 | 0.81 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 4.1 | 0.83 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 4.1 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 4.1 | 1.1  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 4.1 | 1.0  | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 4.1 | 0.81 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 4.1 | 1.6  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.1 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 4.1 | 0.81 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 4.1 | 0.81 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 4.1 | 0.94 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 4.1 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 4.1 | 0.81 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 2.2    | 4.1 | 1.1  | ug/kg | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 4.1 | 0.81 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 4.1 | 0.81 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 4.1 | 0.81 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 4.1 | 0.81 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 4.1 | 0.81 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 4.1 | 1.1  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 6.1  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 7.3  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 4.1 | 1.6  | ug/kg |   |

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-18 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-12         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 79.9    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.1 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 4.1 | 1.4  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 16  | 9.0  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 20  | 6.1  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 4.1 | 0.81 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 4.1 | 0.81 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 4.1 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 16  | 8.1  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.1 | 0.81 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 4.1 | 0.81 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 4.1 | 0.81 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 4.1 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 4.1 | 0.81 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 12  | 1.7  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-13         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 84.9    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12266.D | 1  | 11/30/20 21:57 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.32 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 77.0   | 140 | 71   | ug/kg | J |
| 71-43-2    | Benzene                     | ND     | 3.5 | 0.86 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.5 | 0.71 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.5 | 0.71 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | 5.5    | 18  | 5.1  | ug/kg | J |
| 75-15-0    | Carbon Disulfide            | ND     | 3.5 | 0.71 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.5 | 0.72 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.5 | 0.71 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.5 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.5 | 0.94 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.5 | 0.88 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.5 | 0.71 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.5 | 1.4  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.5 | 0.71 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.5 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.5 | 0.71 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.5 | 0.71 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.5 | 0.81 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.5 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.5 | 0.71 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.5 | 0.71 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 57.2   | 3.5 | 0.98 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 0.76   | 3.5 | 0.71 | ug/kg | J |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.5 | 0.71 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.5 | 0.71 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.5 | 0.71 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.5 | 0.71 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.5 | 0.93 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 18  | 5.3  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.5 | 0.71 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 18  | 6.3  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.5 | 1.4  | ug/kg |   |

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-13         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.9    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.5 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.5 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.8  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 18  | 5.3  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.5 | 0.71 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.5 | 0.71 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.5 | 0.71 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.5 | 0.91 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 7.1  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.5 | 0.71 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.5 | 0.71 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.5 | 0.71 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | 3.5    | 3.5 | 0.71 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.5 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.5 | 0.71 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (5')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-14         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 77.4    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12267.D | 1  | 11/30/20 22:23 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.58 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 170 | 85   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 4.3 | 1.0  | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 4.3 | 0.85 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 4.3 | 0.85 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 21  | 6.2  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.3 | 0.85 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 4.3 | 0.87 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 4.3 | 0.85 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 4.3 | 1.7  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 4.3 | 1.1  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 4.3 | 1.1  | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 4.3 | 0.85 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 4.3 | 1.6  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.3 | 0.85 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.3 | 1.7  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 4.3 | 0.85 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 4.3 | 0.85 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 4.3 | 0.98 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 4.3 | 1.5  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 4.3 | 0.85 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 4.3 | 0.85 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 70.4   | 4.3 | 1.2  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 0.96   | 4.3 | 0.85 | ug/kg | J |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 4.3 | 0.85 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 4.3 | 0.85 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 4.3 | 0.85 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 4.3 | 0.85 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 4.3 | 1.1  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 21  | 6.4  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 4.3 | 0.85 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 21  | 7.6  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 4.3 | 1.7  | ug/kg |   |

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (5')      |                                |
| <b>Lab Sample ID:</b> FA80977-14         | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 77.4    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.3 | 1.7  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 4.3 | 1.4  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 17  | 9.4  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 21  | 6.4  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 4.3 | 0.85 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 4.3 | 0.85 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 4.3 | 0.85 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 4.3 | 1.1  | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 17  | 8.5  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.3 | 0.85 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 4.3 | 0.85 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 4.3 | 0.85 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | 28.2   | 4.3 | 0.85 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 4.3 | 1.7  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 2.2    | 4.3 | 0.85 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | ND     | 13  | 1.8  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-15         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 87.7    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12268.D | 1  | 11/30/20 22:50 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.86 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 130 | 64   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.2 | 0.79 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.2 | 0.64 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.2 | 0.64 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 16  | 4.7  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.2 | 0.64 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.2 | 0.66 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.2 | 0.64 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.2 | 1.3  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.2 | 0.86 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.2 | 0.80 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.2 | 0.64 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.2 | 1.2  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.2 | 0.64 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.2 | 1.3  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.2 | 0.64 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.2 | 0.64 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.2 | 0.74 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.2 | 1.1  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.2 | 0.64 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.2 | 0.64 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.2 | 0.89 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.2 | 0.64 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.2 | 0.64 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.2 | 0.64 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.2 | 0.64 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.2 | 0.64 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.2 | 0.85 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 16  | 4.8  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.2 | 0.64 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 16  | 5.7  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.2 | 1.3  | ug/kg |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-22 (3')               | <b>Date Sampled:</b>   | 11/18/20 |
| <b>Lab Sample ID:</b>    | FA80977-15               | <b>Date Received:</b>  | 11/19/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 87.7     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.2 | 1.3  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.2 | 1.1  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 13  | 7.1  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 16  | 4.8  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.2 | 0.64 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.2 | 0.64 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.2 | 0.64 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.2 | 0.82 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 13  | 6.4  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.2 | 0.64 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.2 | 0.64 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.2 | 0.64 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.2 | 0.64 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.2 | 1.3  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.2 | 0.64 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 9.7 | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (6')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-16         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 82.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12269.D | 1  | 11/30/20 23:16 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.87 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 69   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.4 | 0.84 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.4 | 0.69 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 17  | 5.0  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.4 | 0.69 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.4 | 0.70 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.4 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.4 | 0.91 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.4 | 0.86 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.4 | 0.69 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.4 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.4 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.4 | 0.69 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.4 | 0.69 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.4 | 0.79 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.4 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.4 | 0.69 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 9.1    | 3.4 | 0.95 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.4 | 0.69 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.4 | 0.69 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.4 | 0.69 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.4 | 0.69 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.4 | 0.69 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.4 | 0.91 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 17  | 5.1  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 17  | 6.1  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.4 | 1.4  | ug/kg |   |

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (6')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-16         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 82.2    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.4 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.4 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.5  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.1  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.4 | 0.69 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.4 | 0.69 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.4 | 0.88 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 6.9  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.4 | 0.69 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.4 | 0.69 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.4 | 0.69 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.4 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 1.3    | 3.4 | 0.69 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | ND     | 10  | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-21 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-17         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12270.D | 1  | 11/30/20 23:42 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.65 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 130 | 67   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.3 | 0.82 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.3 | 0.67 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 17  | 4.9  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.3 | 0.67 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.3 | 0.68 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.3 | 1.3  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.3 | 0.89 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.3 | 0.84 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.3 | 0.67 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.3 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.3 | 1.3  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.3 | 0.67 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.3 | 0.67 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.3 | 0.77 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.3 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.3 | 0.67 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.3 | 0.92 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.3 | 0.67 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.3 | 0.67 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.3 | 0.67 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.3 | 0.67 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.3 | 0.67 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.3 | 0.88 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 17  | 5.0  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 17  | 6.0  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.3 | 1.3  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-21 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-17         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 86.3    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.3 | 1.3  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.3 | 1.1  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 13  | 7.4  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.0  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.3 | 0.67 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.3 | 0.67 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.3 | 0.86 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 13  | 6.7  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.3 | 0.67 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.3 | 1.3  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.3 | 0.67 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 10  | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-21 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-18         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 82.0    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12271.D | 1  | 12/01/20 00:09 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.46 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 72   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.6 | 0.88 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.6 | 0.72 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 18  | 5.2  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 3.6 | 0.72 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.6 | 0.74 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.6 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.6 | 0.96 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.6 | 0.90 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.6 | 0.72 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.6 | 1.4  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.6 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.6 | 0.72 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.6 | 0.72 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.6 | 0.83 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.6 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.6 | 0.72 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.6 | 0.99 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.6 | 0.72 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.6 | 0.72 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.6 | 0.72 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.6 | 0.72 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.6 | 0.72 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.6 | 0.95 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 18  | 5.4  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 18  | 6.4  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.6 | 1.4  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-21 (5')               | <b>Date Sampled:</b>   | 11/18/20 |
| <b>Lab Sample ID:</b>    | FA80977-18               | <b>Date Received:</b>  | 11/19/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 82.0     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.6 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.6 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.9  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 18  | 5.4  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.6 | 0.72 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.6 | 0.72 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.6 | 0.92 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 7.2  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.6 | 0.72 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.6 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.6 | 0.72 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-23 (3')               | <b>Date Sampled:</b>   | 11/18/20 |
| <b>Lab Sample ID:</b>    | FA80977-19               | <b>Date Received:</b>  | 11/19/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 80.2     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12272.D | 1  | 12/01/20 00:35 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.61 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 160 | 82   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 4.1 | 1.0  | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 4.1 | 0.82 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 4.1 | 0.82 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 20  | 6.0  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.1 | 0.82 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 4.1 | 0.84 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 4.1 | 0.82 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 4.1 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 4.1 | 1.1  | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 4.1 | 1.0  | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 4.1 | 0.82 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 4.1 | 1.6  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.1 | 0.82 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.1 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 4.1 | 0.82 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 4.1 | 0.82 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 4.1 | 0.94 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 4.1 | 1.5  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 4.1 | 0.82 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 4.1 | 0.82 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 4.1 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 4.1 | 0.82 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 4.1 | 0.82 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 4.1 | 0.82 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 4.1 | 0.82 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 4.1 | 0.82 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 4.1 | 1.1  | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 6.1  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 4.1 | 0.82 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 7.3  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 4.1 | 1.6  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-23 (3')               | <b>Date Sampled:</b>   | 11/18/20 |
| <b>Lab Sample ID:</b>    | FA80977-19               | <b>Date Received:</b>  | 11/19/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 80.2     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.1 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 4.1 | 1.4  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 16  | 9.0  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 20  | 6.1  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 4.1 | 0.82 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 4.1 | 0.82 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 4.1 | 0.82 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 4.1 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 16  | 8.2  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.1 | 0.82 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 4.1 | 0.82 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 4.1 | 0.82 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | 2.1    | 4.1 | 0.82 | ug/kg | J |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 4.1 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 4.1 | 0.82 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 12  | 1.7  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-23 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-20         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 81.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12273.D | 1  | 12/01/20 01:01 | SP | n/a       | n/a        | V3C515           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.54 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 140 | 72   | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 3.6 | 0.88 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 3.6 | 0.72 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 18  | 5.2  | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | 0.89   | 3.6 | 0.72 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride        | ND     | 3.6 | 0.74 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 3.6 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 3.6 | 0.96 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 3.6 | 0.90 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 3.6 | 0.72 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 3.6 | 1.4  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 3.6 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 3.6 | 0.72 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 3.6 | 0.72 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 3.6 | 0.83 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 3.6 | 1.3  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 3.6 | 0.72 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 3.6 | 0.72 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 3.6 | 1.0  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 3.6 | 0.72 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 3.6 | 0.72 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 3.6 | 0.72 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 3.6 | 0.72 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 3.6 | 0.72 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 3.6 | 0.95 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 18  | 5.4  | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 18  | 6.4  | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 3.6 | 1.4  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-23 (5')      |                                |
| <b>Lab Sample ID:</b> FA80977-20         | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 81.1    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.6 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 3.6 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 14  | 7.9  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 18  | 5.4  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.6 | 0.72 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.6 | 0.72 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.6 | 0.92 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 14  | 7.2  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.6 | 0.72 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.6 | 0.72 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | 0.94   | 3.6 | 0.72 | ug/kg | J |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 3.6 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 3.6 | 0.72 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | ND     | 11  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 98%    |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-21         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 85.9    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | F0098983.D | 1  | 11/21/20 22:07 | SP | n/a       | n/a        | VF3501           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 7.38 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 160 | 79   | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 3.9 | 0.96 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.9 | 0.79 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 20  | 5.7  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 3.9 | 0.79 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.9 | 0.80 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 3.9 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.9 | 1.0  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 3.9 | 0.99 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.9 | 1.5  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 3.9 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 3.9 | 0.79 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 3.9 | 0.79 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 3.9 | 0.91 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 3.9 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.9 | 0.79 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.9 | 0.79 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 3.9 | 1.1  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 3.9 | 0.79 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.9 | 0.79 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.9 | 0.79 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.9 | 0.79 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | ND     | 3.9 | 0.79 | ug/kg |   |
| 76-13-1    | Freon 113 <sup>c</sup>               | ND     | 3.9 | 1.0  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 20  | 5.9  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 3.9 | 0.79 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 20  | 7.0  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 3.9 | 1.6  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-21         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 85.9    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND     | 3.9 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | ND     | 3.9 | 1.3  | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>d</sup> | ND     | 16  | 8.7  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND     | 20  | 5.9  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 3.9 | 0.79 | ug/kg |   |
| 100-42-5  | Styrene                         | ND     | 3.9 | 0.79 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND     | 3.9 | 0.79 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND     | 3.9 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                         | ND     | 16  | 7.9  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND     | 3.9 | 0.79 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND     | 3.9 | 0.79 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND     | 3.9 | 0.79 | ug/kg |   |
| 79-01-6   | Trichloroethylene               | 9.5    | 3.9 | 0.79 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND     | 3.9 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | 1.2    | 3.9 | 0.79 | ug/kg | J |
| 1330-20-7 | Xylene (total)                  | ND     | 12  | 1.7  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 113%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 118%   |        | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low.
- (c) Associated ICV outside control limits low.
- (d) Associated CCV outside of control limits high, sample was ND.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (6')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-22         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 81.0    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | F0098984.D | 1  | 11/21/20 22:31 | SP | n/a       | n/a        | VF3501           |
| Run #2 | 3C12230.D  | 1  | 11/27/20 19:35 | SP | n/a       | n/a        | V3C513           |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.84 g         | 5.0 ml       |                  |
| Run #2 | 8.26 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result            | RL  | MDL  | Units | Q |
|------------|--------------------------------------|-------------------|-----|------|-------|---|
| 67-64-1    | Acetone                              | ND                | 140 | 70   | ug/kg |   |
| 71-43-2    | Benzene                              | ND                | 3.5 | 0.85 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND                | 3.5 | 0.70 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                | 3.5 | 0.70 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 6.5               | 17  | 5.1  | ug/kg | J |
| 75-15-0    | Carbon Disulfide                     | 2.8               | 3.5 | 0.70 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND                | 3.5 | 0.71 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                | 3.5 | 0.70 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND                | 3.5 | 1.4  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                | 3.5 | 0.93 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND                | 3.5 | 0.87 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND                | 3.5 | 0.70 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                | 3.5 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                | 3.5 | 0.70 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                | 3.5 | 1.4  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND                | 3.5 | 0.70 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND                | 3.5 | 0.70 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND                | 3.5 | 0.80 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                | 3.5 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                | 3.5 | 0.70 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | 2.6               | 3.5 | 0.70 | ug/kg | J |
| 156-59-2   | cis-1,2-Dichloroethylene             | 2090 <sup>c</sup> | 250 | 68   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | 12.2              | 3.5 | 0.70 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                | 3.5 | 0.70 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                | 3.5 | 0.70 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                | 3.5 | 0.70 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | ND                | 3.5 | 0.70 | ug/kg |   |
| 76-13-1    | Freon 113 <sup>d</sup>               | ND                | 3.5 | 0.92 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                | 17  | 5.2  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | ND                | 3.5 | 0.70 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                | 17  | 6.2  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                | 3.5 | 1.4  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (6')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-22         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 81.0    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                        | Result           | RL  | MDL  | Units | Q |
|-----------|---------------------------------|------------------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND               | 3.5 | 1.4  | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | ND               | 3.5 | 1.2  | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>e</sup> | ND               | 14  | 7.7  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND               | 17  | 5.2  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND               | 3.5 | 0.70 | ug/kg |   |
| 100-42-5  | Styrene                         | ND               | 3.5 | 0.70 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND               | 3.5 | 0.70 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND               | 3.5 | 0.89 | ug/kg |   |
| 108-88-3  | Toluene                         | ND               | 14  | 7.0  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND               | 3.5 | 0.70 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND               | 3.5 | 0.70 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND               | 3.5 | 0.70 | ug/kg |   |
| 79-01-6   | Trichloroethylene               | 4.7              | 3.5 | 0.70 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND               | 3.5 | 1.4  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | 165 <sup>c</sup> | 250 | 49   | ug/kg | J |
| 1330-20-7 | Xylene (total)                  | ND               | 10  | 1.5  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   | 98%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96%    | 106%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 106%   | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    | 98%    | 71-133% |

- (a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.
- (b) Associated CCV outside of control limits low.
- (c) Result is from Run# 2
- (d) Associated ICV outside control limits low.
- (e) Associated CCV outside of control limits high, sample was ND.

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (3')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-23         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 87.8    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | F0098985.D | 1  | 11/21/20 22:55 | SP | n/a       | n/a        | VF3501           |
| Run #2 |            |    |                |    |           |            |                  |

| Run #1 | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.69 g         | 5.0 ml       |
| Run #2 |                |              |

### VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 183    | 130 | 66   | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 3.3 | 0.80 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.3 | 0.66 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.3 | 0.66 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 32.8   | 16  | 4.8  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 1.2    | 3.3 | 0.66 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 3.3 | 0.66 | ug/kg |   |
| 75-00-3    | Chloroethane <sup>a</sup>            | ND     | 3.3 | 1.3  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.3 | 0.87 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 3.3 | 0.82 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.3 | 0.66 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.3 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.3 | 0.66 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 3.3 | 1.3  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 3.3 | 0.66 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 3.3 | 0.66 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 3.3 | 0.75 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 3.3 | 1.2  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.3 | 0.66 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.3 | 0.66 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 3.2    | 3.3 | 0.90 | ug/kg | J |
| 156-60-5   | trans-1,2-Dichloroethylene           | 1.3    | 3.3 | 0.66 | ug/kg | J |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.3 | 0.66 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.3 | 0.66 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.3 | 0.66 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1.9    | 3.3 | 0.66 | ug/kg | J |
| 76-13-1    | Freon 113 <sup>c</sup>               | ND     | 3.3 | 0.87 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 16  | 4.9  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 1.6    | 3.3 | 0.66 | ug/kg | J |
| 79-20-9    | Methyl Acetate                       | ND     | 16  | 5.8  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 3.3 | 1.3  | ug/kg |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-25 (3')               | <b>Date Sampled:</b>   | 11/18/20 |
| <b>Lab Sample ID:</b>    | FA80977-23               | <b>Date Received:</b>  | 11/19/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 87.8     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                        | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                 | ND     | 3.3 | 1.3  | ug/kg |   |
| 108-87-2  | Methylcyclohexane               | ND     | 3.3 | 1.1  | ug/kg |   |
| 75-09-2   | Methylene Chloride <sup>d</sup> | ND     | 13  | 7.2  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)     | ND     | 16  | 4.9  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether         | ND     | 3.3 | 0.66 | ug/kg |   |
| 100-42-5  | Styrene                         | ND     | 3.3 | 0.66 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane       | ND     | 3.3 | 0.66 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene             | ND     | 3.3 | 0.84 | ug/kg |   |
| 108-88-3  | Toluene                         | ND     | 13  | 6.6  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene          | ND     | 3.3 | 0.66 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane           | ND     | 3.3 | 0.66 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane           | ND     | 3.3 | 0.66 | ug/kg |   |
| 79-01-6   | Trichloroethylene               | 59.0   | 3.3 | 0.66 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane          | ND     | 3.3 | 1.3  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                  | 5.3    | 3.3 | 0.66 | ug/kg |   |
| 1330-20-7 | Xylene (total)                  | 4.7    | 9.8 | 1.4  | ug/kg | J |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95%    |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 112%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 115%   |        | 71-133% |

(a) Associated BS recovery outside control limits high; however sample is ND. Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low.

(c) Associated ICV outside control limits low.

(d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (5')      |  |                                |
| <b>Lab Sample ID:</b> FA80977-24         |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/19/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 73.7    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12231.D | 1  | 11/27/20 20:01 | SP | n/a       | n/a        | V3C513           |
| Run #2 | 3C12232.D | 1  | 11/27/20 20:28 | SP | n/a       | n/a        | V3C513           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.38 g         | 5.0 ml       |                  |
| Run #2 | 8.66 g         | 5.0 ml       | 100 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 122    | 160 | 81   | ug/kg | J |
| 71-43-2    | Benzene                              | ND     | 4.0 | 0.99 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 4.0 | 0.81 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 4.0 | 0.81 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 21.0   | 20  | 5.9  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | 3.0    | 4.0 | 0.81 | ug/kg | J |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 4.0 | 0.83 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 4.0 | 0.81 | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND     | 4.0 | 1.6  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 4.0 | 1.1  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 4.0 | 1.0  | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 4.0 | 0.81 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 4.0 | 1.6  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 4.0 | 0.81 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 4.0 | 1.6  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 4.0 | 0.81 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 4.0 | 0.81 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 4.0 | 0.93 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 4.0 | 1.4  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 4.0 | 0.81 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 4.0 | 0.81 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 3.4    | 4.0 | 1.1  | ug/kg | J |
| 156-60-5   | trans-1,2-Dichloroethylene           | 1.1    | 4.0 | 0.81 | ug/kg | J |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 4.0 | 0.81 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 4.0 | 0.81 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 4.0 | 0.81 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | ND     | 4.0 | 0.81 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 4.0 | 1.1  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 20  | 6.1  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 4.0 | 0.81 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 20  | 7.2  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 4.0 | 1.6  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (5')      |  | <b>Date Sampled:</b> 11/18/20  |
| <b>Lab Sample ID:</b> FA80977-24         |  | <b>Date Received:</b> 11/19/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 73.7    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result            | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|-------------------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                | 4.0 | 1.6  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND                | 4.0 | 1.4  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND                | 16  | 8.9  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                | 20  | 6.1  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                | 4.0 | 0.81 | ug/kg |   |
| 100-42-5  | Styrene                             | ND                | 4.0 | 0.81 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                | 4.0 | 0.81 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                | 4.0 | 1.0  | ug/kg |   |
| 108-88-3  | Toluene                             | ND                | 16  | 8.1  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                | 4.0 | 0.81 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                | 4.0 | 0.81 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                | 4.0 | 0.81 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | 1230 <sup>b</sup> | 290 | 57   | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>c</sup> | ND                | 4.0 | 1.6  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 4.2               | 4.0 | 0.81 | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 1.9               | 12  | 1.7  | ug/kg | J |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 97%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112%   | 107%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 108%   | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   | 98%    | 71-133% |

(a) Associated CCV outside of control limits low.

(b) Result is from Run# 2

(c) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

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

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

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

|                  |  |  |  |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|--|--|--|
| Send Results to: | Contact & Company Name:<br><b>CHARLES LAWSON<br/>ARCADIS</b>       | Telephone:<br><b>706-829-4421</b>                    | Preservative:<br><b>7</b>              |  |  |  |  |  |  | <b>Keys</b><br>Preservation Key:<br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: <b>MeOH</b><br>G. Other: _____<br>H. Other: _____<br>Matrix Key:<br>SO - Soil<br>W - Water<br>T - Tissue<br>SE - Sediment<br>SL - Sludge<br>A - Air<br>NL - NAPL/Oil<br>SW - Sample Wipe<br>Other: _____ |
|                  | Address:<br><b>1450 Greene St Ste 210</b>                          | Fax:   | Filtered (*):                          |  |  |  |  |  |  |  |
|                  | City: <b>Augusta GA</b> State: <b>GA</b> Zip: <b>30901</b>         | E-mail Address:<br><b>Charles.Lawson@Arcadis.com</b> | # of Containers:<br><b>3</b>           |  |  |  |  |  |  |  |
|                  | Project Name/Location (City, State):<br><b>Brenntag Charles Co</b> | Project #:   | <b>PARAMETER ANALYSIS &amp; METHOD</b> |  |  |  |  |  |  |  |
|                  | Sample's Printed Name:<br><b>C. Lawson</b>                         | Sampler's Signature:<br><i>CB Lawson</i>             | SOIL KIT<br>40 ML VIALS<br>6 BC        |  |  |  |  |  |  |  |

| Sample ID      | Collection |       | Type (✓) |      | Matrix | REMARKS |
|----------------|------------|-------|----------|------|--------|---------|
|                | Date       | Time  | Comp     | Grab |        |         |
| 1 A#2-11 (3')  | 11/19/20   | 8:35  | X        | SO   | 4      |         |
| 2 A#2-11 (5')  | "          | 8:39  | X        | SO   | 4      |         |
| 3 A#2-12 (3')  | "          | 9:09  | X        | SO   | 4      |         |
| 4 A#2-12 (6')  | "          | 9:13  | X        | SO   | 4      |         |
| 5 A#2-15 (3')  | "          | 9:42  | X        | SO   | 4      |         |
| 6 A#2-15 (5')  | "          | 9:45  | X        | SO   | 4      |         |
| 7 A#2-16 (3')  | "          | 10:37 | X        | SO   | 4      |         |
| 8 A#2-16 (5')  | "          | 10:40 | X        | SO   | 4      |         |
| 9 A#2-17 (3')  | "          | 11:07 | X        | SO   | 4      |         |
| 10 A#2-17 (5') | "          | 11:09 | X        | SO   | 4      |         |
| 11 A#2-18 (3') | "          | 11:38 | X        | SO   | 4      |         |
| 12 A#2-18 (5') | "          | 11:42 | X        | SO   | 4      |         |
| 13 A#2-19 (3') | "          | 12:10 | X        | SO   | 4      |         |
| 14 A#2-19 (5') | "          | 12:20 | X        | SO   | 4      |         |

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (\*): \_\_\_\_\_

| Laboratory Information and Receipt                             |  | Relinquished By                        |                               | Received By                   |                                       | Relinquished By |  | Laboratory Received By |  |
|--|--|--|-------------------------------|-------------------------------|---------------------------------------|-----------------|--|------------------------|--|
| Lab Name:<br><b>SGS</b>  | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Lawson</b> | Printed Name:<br><b>Fedex</b> | Printed Name:<br><b>Fedex</b> | Printed Name:<br><b>Bryan Giraldo</b> |                 |  |                        |  |
| <input checked="" type="checkbox"/> Cooler packed with ice (✓) | Sample Receipt:  | Signature:<br><i>CB Lawson</i>         | Signature:                    | Signature:                    | Signature:<br><i>Bryan Giraldo</i>    |                 |  |                        |  |
| Specify Turnaround Requirements:                               | Condition/Cooler Temp: <b>1.6</b>  | Firm:<br><b>Arcadis</b>                | Firm/Courier:                 | Firm/Courier:                 | Firm:<br><b>SGS</b>                   |                 |  |                        |  |
| Shipping Tracking #:   |  | Date/Time:<br><b>11/19/2020 17:30</b>  | Date/Time:                    | Date/Time:                    | Date/Time:<br><b>11/19/20 9:30</b>    |                 |  |                        |  |

20730826 CoCo AR Form 08.27.2015      Distribution:      **WHITE - Laboratory returns with results**      **YELLOW - Lab copy**      **PINK - Retained by Arcadis**

FA80977

|  |  |  |                   |                              |                                    |   |
|--|--|--|-------------------|------------------------------|------------------------------------|---|
| Contact & Company Name:<br><b>CHARLES LAWSON</b><br><b>ARCADIS</b>                                   | Telephone:<br><b>706-929-4421</b>                                  | Preservative:<br><b>7</b>              | Filtered (✓):<br> | # of Containers:<br><b>3</b> | Container Information:<br><b>1</b> | Keys<br>Preservation Key:<br>A. H <sub>2</sub> O <sub>2</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: <b>MeOH</b><br>G. Other: _____<br>H. Other: _____<br>Matrix Key:<br>SO - Soil<br>W - Water<br>T - Tissue<br>Container Information Key:<br>1. 40 ml Vial<br>2. 1 L Amber<br>3. 250 ml Plastic<br>4. 500 ml Plastic<br>5. Encore<br>6. 2 oz. Glass<br>7. 4 oz. Glass<br>8. 8 oz. Glass<br>9. Other: _____<br>10. Other: _____<br>SE - Sediment<br>SL - Sludge<br>A - Air<br>NL - NAPL/Oil<br>SW - Sample Wipe<br>Other: _____ |
| Address:<br><b>1450 Greene St Ste 220</b><br>City: <b>Augusta</b> State: <b>GA</b> Zip: <b>30901</b> | Fax: _____<br>E-mail Address:<br><b>Charles.Lawson@Arcadis.com</b> | <b>PARAMETER ANALYSIS &amp; METHOD</b> |                   |                              |                                    |   |

|   |                |  |
|---|----------------|--|
| Project Name/Location (City, State):<br><b>Brentley Charleston S.C.</b> | Project #:<br> | Sampler's Signature:<br><b>CB Lawson</b> |
| Sampler's Printed Name:<br><b>C. Lawson</b>                             |                |  |

50 mL KIT  
 50 mL VIAL  
 VOLUME

| Sample ID      | Collection |       | Type (✓) |      | Matrix | REMARKS |
|----------------|------------|-------|----------|------|--------|---------|
|                | Date       | Time  | Comp     | Grab |        |         |
| 15 AH2-22 (3') | 11/19/20   | 13:53 | X        |      | SO     | 4       |
| 16 AH2-22 (6') | 11         | 13:55 | X        |      | SO     | 4       |
| 17 AH2-21 (3') | 11         | 14:23 | X        |      | SO     | 4       |
| 18 AH2-21 (5') | 11         | 14:25 | X        |      | SO     | 4       |
| 19 AH2-23 (3') | 11         | 14:53 | X        |      | SO     | 4       |
| 20 AH2-23 (5') | 11         | 14:55 | X        |      | SO     | 4       |
| 21 AH2-24 (3') | 11         | 15:35 | X        |      | SO     | 4       |
| 22 AH2-24 (6') | 11         | 15:39 | X        |      | SO     | 4       |
| 23 AH2-25 (3') | 11         | 16:10 | X        |      | SO     | 4       |
| 24 AH2-25 ( )  | 11         | 16:15 | X        |      | SO     | 4       |

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (✓): \_\_\_\_\_

| Laboratory Information and Receipt |  | Relinquished By                        |                                       | Received By                   |                     | Relinquished By               |                     | Laboratory Received By                |                                    |
|------------------------------------|--|--|---------------------------------------|-------------------------------|---------------------|-------------------------------|---------------------|---------------------------------------|------------------------------------|
| Lab Name:<br><b>SGS</b>            | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Lawson</b> | Signature:<br><b>CB Lawson</b>        | Printed Name:<br><b>Fedex</b> | Signature:<br>_____ | Printed Name:<br><b>Fedex</b> | Signature:<br>_____ | Printed Name:<br><b>Bryan Giraldo</b> | Signature:<br><b>Bryan Giraldo</b> |
| Specify Turnaround Requirements:   | Sample Receipt:  | Firm:<br><b>ARCADIS</b>                | Date/Time:<br><b>11/19/2020 17:30</b> | Firm/Courier:                 | Date/Time:          | Firm/Courier:                 | Date/Time:          | Firm #:<br><b>SGS</b>                 | Date/Time:<br><b>11/19/20 9:30</b> |
| Shipping Tracking #:               | Condition/Cooler Temp: _____   |  |                                       |                               |                     |                               |                     |                                       |                                    |

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## SGS Sample Receipt Summary

Job Number: FA80977

Client: ARCADIS

Project: BRENNTAG CHARLESTON S.C.

Date / Time Received: 11/19/2020 9:30:00 AM

Delivery Method: FEDEX

Airbill #'s: 923153807101

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

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

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

**Cooler Information**

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |                          |

**Trip Blank Information**

Y or N N/A

- |                                |                          |                          |                                     |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | <u>W or S</u>            |                          | <u>N/A</u>                          |
| 3. Type Of TB Received         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Sample Information**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 11/19/2020 9:30:00 A

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

**FA80977: Chain of Custody**

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## MS Volatiles

### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-MB | F0098964.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-21, FA80977-22, FA80977-23

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-MB | F0098964.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-21, FA80977-22, FA80977-23

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 110% 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% 72-135% |
| 2037-26-5  | Toluene-D8            | 99% 75-126%  |
| 460-00-4   | 4-Bromofluorobenzene  | 89% 71-133%  |



## Method Blank Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-MB | 3C12219.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-22, FA80977-24

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-MB | 3C12219.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-22, FA80977-24

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 100% 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% 72-135% |
| 2037-26-5  | Toluene-D8            | 107% 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 100% 71-133% |

## Method Blank Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C515-MB | 3C12253.D | 1  | 11/30/20 | SP | n/a       | n/a        | V3C515           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-1, FA80977-2, FA80977-3, FA80977-4, FA80977-5, FA80977-6, FA80977-7, FA80977-8, FA80977-9, FA80977-10, FA80977-11, FA80977-12, FA80977-13, FA80977-14, FA80977-15, FA80977-16, FA80977-17, FA80977-18, FA80977-19, FA80977-20

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | 2.6    | 5.0 | 2.0 | ug/kg | J |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C515-MB | 3C12253.D | 1  | 11/30/20 | SP | n/a       | n/a        | V3C515           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-1, FA80977-2, FA80977-3, FA80977-4, FA80977-5, FA80977-6, FA80977-7, FA80977-8, FA80977-9, FA80977-10, FA80977-11, FA80977-12, FA80977-13, FA80977-14, FA80977-15, FA80977-16, FA80977-17, FA80977-18, FA80977-19, FA80977-20

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 99%    | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    | 71-133% |

# Blank Spike Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-BS | F0098965.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-21, FA80977-22, FA80977-23

| CAS No.    | Compound                    | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|------------|-----------------------------|----------------|--------------|----------|--------|
| 67-64-1    | Acetone                     | 250            | 280          | 112      | 61-152 |
| 71-43-2    | Benzene                     | 50             | 57.4         | 115      | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50             | 57.8         | 116      | 74-130 |
| 75-25-2    | Bromoform                   | 50             | 55.2         | 110      | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250            | 287          | 115      | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50             | 54.6         | 109      | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50             | 58.7         | 117      | 78-133 |
| 108-90-7   | Chlorobenzene               | 50             | 56.2         | 112      | 81-129 |
| 75-00-3    | Chloroethane                | 50             | 70.7         | 141*     | 68-133 |
| 67-66-3    | Chloroform                  | 50             | 59.9         | 120      | 72-123 |
| 110-82-7   | Cyclohexane                 | 50             | 57.2         | 114      | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50             | 57.5         | 115      | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50             | 55.8         | 112      | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50             | 53.7         | 107      | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50             | 36.5         | 73       | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50             | 56.1         | 112      | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50             | 56.6         | 113      | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50             | 55.2         | 110      | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50             | 62.3         | 125      | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50             | 53.5         | 107      | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50             | 60.2         | 120      | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50             | 59.0         | 118      | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50             | 59.7         | 119      | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50             | 58.8         | 118      | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50             | 53.6         | 107      | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50             | 56.8         | 114      | 75-131 |
| 100-41-4   | Ethylbenzene                | 50             | 58.7         | 117      | 77-123 |
| 76-13-1    | Freon 113                   | 50             | 46.3         | 93       | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250            | 319          | 128      | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50             | 58.2         | 116      | 80-136 |
| 79-20-9    | Methyl Acetate              | 250            | 311          | 124      | 67-137 |
| 74-83-9    | Methyl Bromide              | 50             | 57.4         | 115      | 65-139 |
| 74-87-3    | Methyl Chloride             | 50             | 52.2         | 104      | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50             | 58.3         | 117      | 75-128 |
| 75-09-2    | Methylene Chloride          | 50             | 62.3         | 125      | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250            | 310          | 124      | 76-132 |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VF3501-BS | F0098965.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-21, FA80977-22, FA80977-23

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 53.9      | 108   | 77-120 |
| 100-42-5  | Styrene                   | 50          | 55.7      | 111   | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 57.5      | 115   | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 54.3      | 109   | 79-130 |
| 108-88-3  | Toluene                   | 50          | 58.0      | 116   | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 55.1      | 110   | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 58.7      | 117   | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 56.8      | 114   | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 55.0      | 110   | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 53.0      | 106   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 54.7      | 109   | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 173       | 115   | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%  | 72-135% |
| 2037-26-5  | Toluene-D8            | 105% | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 71-133% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-BS | 3C12217.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-22, FA80977-24

| CAS No.    | Compound                    | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|------------|-----------------------------|----------------|--------------|----------|--------|
| 67-64-1    | Acetone                     | 250            | 223          | 89       | 61-152 |
| 71-43-2    | Benzene                     | 50             | 48.5         | 97       | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50             | 53.3         | 107      | 74-130 |
| 75-25-2    | Bromoform                   | 50             | 54.4         | 109      | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250            | 241          | 96       | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50             | 43.9         | 88       | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50             | 50.6         | 101      | 78-133 |
| 108-90-7   | Chlorobenzene               | 50             | 53.2         | 106      | 81-129 |
| 75-00-3    | Chloroethane                | 50             | 53.3         | 107      | 68-133 |
| 67-66-3    | Chloroform                  | 50             | 50.6         | 101      | 72-123 |
| 110-82-7   | Cyclohexane                 | 50             | 44.7         | 89       | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50             | 55.5         | 111      | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50             | 54.2         | 108      | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50             | 54.6         | 109      | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50             | 36.3         | 73       | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50             | 55.3         | 111      | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50             | 55.5         | 111      | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50             | 54.3         | 109      | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50             | 52.1         | 104      | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50             | 48.7         | 97       | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50             | 51.3         | 103      | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50             | 49.5         | 99       | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50             | 49.6         | 99       | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50             | 48.5         | 97       | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50             | 48.1         | 96       | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50             | 54.4         | 109      | 75-131 |
| 100-41-4   | Ethylbenzene                | 50             | 53.6         | 107      | 77-123 |
| 76-13-1    | Freon 113                   | 50             | 40.4         | 81       | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250            | 279          | 112      | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50             | 54.5         | 109      | 80-136 |
| 79-20-9    | Methyl Acetate              | 250            | 238          | 95       | 67-137 |
| 74-83-9    | Methyl Bromide              | 50             | 49.9         | 100      | 65-139 |
| 74-87-3    | Methyl Chloride             | 50             | 47.3         | 95       | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50             | 46.1         | 92       | 75-128 |
| 75-09-2    | Methylene Chloride          | 50             | 52.4         | 105      | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250            | 277          | 111      | 76-132 |

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-BS | 3C12217.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-22, FA80977-24

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 47.1      | 94    | 77-120 |
| 100-42-5  | Styrene                   | 50          | 54.8      | 110   | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 56.7      | 113   | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 55.6      | 111   | 79-130 |
| 108-88-3  | Toluene                   | 50          | 51.7      | 103   | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 53.3      | 107   | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 52.2      | 104   | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 53.9      | 108   | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 47.6      | 95    | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 54.8      | 110   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 49.6      | 99    | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 162       | 108   | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 72-135% |
| 2037-26-5  | Toluene-D8            | 106% | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%  | 71-133% |

\* = Outside of Control Limits.

5.2.2  
5



# Blank Spike Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C515-BS | 3C12252.D | 1  | 11/30/20 | SP | n/a       | n/a        | V3C515           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-1, FA80977-2, FA80977-3, FA80977-4, FA80977-5, FA80977-6, FA80977-7, FA80977-8, FA80977-9, FA80977-10, FA80977-11, FA80977-12, FA80977-13, FA80977-14, FA80977-15, FA80977-16, FA80977-17, FA80977-18, FA80977-19, FA80977-20

| CAS No.    | Compound                    | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|------------|-----------------------------|-------------|-----------|-------|--------|
| 67-64-1    | Acetone                     | 250         | 244       | 98    | 61-152 |
| 71-43-2    | Benzene                     | 50          | 47.8      | 96    | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50          | 52.1      | 104   | 74-130 |
| 75-25-2    | Bromoform                   | 50          | 49.6      | 99    | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250         | 253       | 101   | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50          | 46.4      | 93    | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50          | 52.6      | 105   | 78-133 |
| 108-90-7   | Chlorobenzene               | 50          | 47.2      | 94    | 81-129 |
| 75-00-3    | Chloroethane                | 50          | 48.6      | 97    | 68-133 |
| 67-66-3    | Chloroform                  | 50          | 48.6      | 97    | 72-123 |
| 110-82-7   | Cyclohexane                 | 50          | 46.7      | 93    | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50          | 50.0      | 100   | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50          | 47.4      | 95    | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50          | 48.7      | 97    | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50          | 39.9      | 80    | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50          | 47.7      | 95    | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50          | 48.0      | 96    | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50          | 47.5      | 95    | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50          | 49.5      | 99    | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50          | 46.7      | 93    | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50          | 47.9      | 96    | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50          | 48.1      | 96    | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50          | 47.5      | 95    | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50          | 48.2      | 96    | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50          | 47.8      | 96    | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50          | 51.3      | 103   | 75-131 |
| 100-41-4   | Ethylbenzene                | 50          | 47.0      | 94    | 77-123 |
| 76-13-1    | Freon 113                   | 50          | 41.9      | 84    | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250         | 266       | 106   | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50          | 47.8      | 96    | 80-136 |
| 79-20-9    | Methyl Acetate              | 250         | 249       | 100   | 67-137 |
| 74-83-9    | Methyl Bromide              | 50          | 46.9      | 94    | 65-139 |
| 74-87-3    | Methyl Chloride             | 50          | 45.9      | 92    | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50          | 50.2      | 100   | 75-128 |
| 75-09-2    | Methylene Chloride          | 50          | 46.1      | 92    | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250         | 262       | 105   | 76-132 |

\* = Outside of Control Limits.

5.2.3  
5

# Blank Spike Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C515-BS | 3C12252.D | 1  | 11/30/20 | SP | n/a       | n/a        | V3C515           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-1, FA80977-2, FA80977-3, FA80977-4, FA80977-5, FA80977-6, FA80977-7, FA80977-8, FA80977-9, FA80977-10, FA80977-11, FA80977-12, FA80977-13, FA80977-14, FA80977-15, FA80977-16, FA80977-17, FA80977-18, FA80977-19, FA80977-20

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 48.9      | 98    | 77-120 |
| 100-42-5  | Styrene                   | 50          | 47.9      | 96    | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 49.0      | 98    | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 48.4      | 97    | 79-130 |
| 108-88-3  | Toluene                   | 50          | 45.6      | 91    | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 47.0      | 94    | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 49.5      | 99    | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 48.7      | 97    | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 47.5      | 95    | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 52.3      | 105   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 46.3      | 93    | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 142       | 95    | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%  | 72-135% |
| 2037-26-5  | Toluene-D8            | 99%  | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 71-133% |

\* = Outside of Control Limits.

5.2.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS            | F0098987.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18MSD           | F0098988.D | 1  | 11/22/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18 <sup>a</sup> | F0098976.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-21, FA80977-22, FA80977-23

| CAS No.    | Compound                    | FA80928-18<br>ug/kg | Spike<br>Q | ug/kg | MS<br>ug/kg | MS<br>%            | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>%           | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|---------------------|------------|-------|-------------|--------------------|----------------|--------------|--------------------|-----|-------------------|
| 67-64-1    | Acetone                     | 212                 |            | 299   | 484         | 91                 | 298            | 540          | 110                | 11  | 61-152/27         |
| 71-43-2    | Benzene                     | 10.8                |            | 59.8  | 65.3        | 91                 | 59.7           | 63.9         | 89                 | 2   | 76-126/26         |
| 75-27-4    | Bromodichloromethane        | ND                  |            | 59.8  | 61.1        | 102                | 59.7           | 58.6         | 98                 | 4   | 74-130/25         |
| 75-25-2    | Bromoform                   | ND                  |            | 59.8  | 53.6        | 90                 | 59.7           | 56.2         | 94                 | 5   | 76-127/26         |
| 78-93-3    | 2-Butanone (MEK)            | ND                  |            | 299   | 304         | 102                | 298            | 325          | 109                | 7   | 75-137/25         |
| 75-15-0    | Carbon Disulfide            | 1.7                 | J          | 59.8  | 65.9        | 107                | 59.7           | 65.3         | 107                | 1   | 72-122/29         |
| 56-23-5    | Carbon Tetrachloride        | ND                  |            | 59.8  | 66.0        | 110                | 59.7           | 66.1         | 111                | 0   | 78-133/29         |
| 108-90-7   | Chlorobenzene               | 3.9                 |            | 59.8  | 60.0        | 94                 | 59.7           | 60.1         | 94                 | 0   | 81-129/29         |
| 75-00-3    | Chloroethane                | ND                  |            | 59.8  | 67.4        | 113                | 59.7           | 79.0         | 132                | 16  | 68-133/29         |
| 67-66-3    | Chloroform                  | ND                  |            | 59.8  | 62.7        | 105                | 59.7           | 62.8         | 105                | 0   | 72-123/26         |
| 110-82-7   | Cyclohexane                 | 5.8                 |            | 59.8  | 64.9        | 99                 | 59.7           | 64.6         | 99                 | 0   | 73-126/32         |
| 124-48-1   | Dibromochloromethane        | ND                  |            | 59.8  | 56.6        | 95                 | 59.7           | 55.6         | 93                 | 2   | 76-127/27         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                  |            | 59.8  | 54.4        | 91                 | 59.7           | 57.3         | 96                 | 5   | 70-137/29         |
| 106-93-4   | 1,2-Dibromoethane           | ND                  |            | 59.8  | 54.0        | 90                 | 59.7           | 54.6         | 92                 | 1   | 77-126/26         |
| 75-71-8    | Dichlorodifluoromethane     | ND                  |            | 59.8  | 41.8        | 70                 | 59.7           | 40.3         | 68                 | 4   | 68-168/29         |
| 95-50-1    | 1,2-Dichlorobenzene         | 3.0                 | J          | 59.8  | 53.3        | 84                 | 59.7           | 53.0         | 84                 | 1   | 80-129/32         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                  |            | 59.8  | 55.4        | 93                 | 59.7           | 54.4         | 91                 | 2   | 81-129/33         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                  |            | 59.8  | 54.1        | 90                 | 59.7           | 52.9         | 89                 | 2   | 76-130/32         |
| 75-34-3    | 1,1-Dichloroethane          | ND                  |            | 59.8  | 67.5        | 113                | 59.7           | 66.1         | 111                | 2   | 73-125/27         |
| 107-06-2   | 1,2-Dichloroethane          | ND                  |            | 59.8  | 53.9        | 90                 | 59.7           | 52.7         | 88                 | 2   | 74-128/23         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                  |            | 59.8  | 69.7        | 117                | 59.7           | 68.6         | 115                | 2   | 81-136/28         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                  |            | 59.8  | 63.5        | 106                | 59.7           | 63.8         | 107                | 0   | 74-126/26         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                  |            | 59.8  | 66.3        | 111                | 59.7           | 65.7         | 110                | 1   | 70-127/27         |
| 78-87-5    | 1,2-Dichloropropane         | ND                  |            | 59.8  | 62.1        | 104                | 59.7           | 59.9         | 100                | 4   | 74-125/25         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                  |            | 59.8  | 55.4        | 93                 | 59.7           | 53.8         | 90                 | 3   | 80-123/26         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                  |            | 59.8  | 54.5        | 91                 | 59.7           | 55.0         | 92                 | 1   | 75-131/28         |
| 100-41-4   | Ethylbenzene                | 13.5                |            | 59.8  | 65.4        | 87                 | 59.7           | 65.8         | 88                 | 1   | 77-123/31         |
| 76-13-1    | Freon 113                   | ND                  |            | 59.8  | 53.5        | 89                 | 59.7           | 55.4         | 93                 | 3   | 71-129/30         |
| 591-78-6   | 2-Hexanone                  | ND                  |            | 299   | 306         | 102                | 298            | 319          | 107                | 4   | 72-133/26         |
| 98-82-8    | Isopropylbenzene            | 149                 | E          | 59.8  | 83.1        | -110* <sup>b</sup> | 59.7           | 78.0         | -119* <sup>b</sup> | 6   | 80-136/32         |
| 79-20-9    | Methyl Acetate              | ND                  |            | 299   | 406         | 136                | 298            | 418          | 140* <sup>b</sup>  | 3   | 67-137/30         |
| 74-83-9    | Methyl Bromide              | ND                  |            | 59.8  | 58.2        | 97                 | 59.7           | 62.0         | 104                | 6   | 65-139/31         |
| 74-87-3    | Methyl Chloride             | ND                  |            | 59.8  | 58.2        | 97                 | 59.7           | 53.4         | 89                 | 9   | 71-144/27         |
| 108-87-2   | Methylcyclohexane           | 138                 | E          | 59.8  | 73.1        | -109* <sup>b</sup> | 59.7           | 68.8         | -116* <sup>b</sup> | 6   | 75-128/31         |
| 75-09-2    | Methylene Chloride          | 8.7                 | J          | 59.8  | 64.3        | 93                 | 59.7           | 61.9         | 89                 | 4   | 74-137/28         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                  |            | 299   | 388         | 130                | 298            | 363          | 122                | 7   | 76-132/26         |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS            | F0098987.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18MSD           | F0098988.D | 1  | 11/22/20 | SP | n/a       | n/a        | VF3501           |
| FA80928-18 <sup>a</sup> | F0098976.D | 1  | 11/21/20 | SP | n/a       | n/a        | VF3501           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-21, FA80977-22, FA80977-23

| CAS No.   | Compound                  | FA80928-18<br>ug/kg | Spike<br>Q | ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|---------------------|------------|-------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                  |            | 59.8  | 52.7        | 88      | 59.7           | 52.7         | 88       | 0   | 77-120/24         |
| 100-42-5  | Styrene                   | ND                  |            | 59.8  | 55.4        | 93      | 59.7           | 54.5         | 91       | 2   | 78-125/30         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                  |            | 59.8  | 57.2        | 96      | 59.7           | 56.6         | 95       | 1   | 71-126/30         |
| 127-18-4  | Tetrachloroethylene       | ND                  |            | 59.8  | 61.6        | 103     | 59.7           | 60.8         | 102      | 1   | 79-130/31         |
| 108-88-3  | Toluene                   | ND                  |            | 59.8  | 63.8        | 107     | 59.7           | 63.3         | 106      | 1   | 76-124/30         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                  |            | 59.8  | 45.5        | 76*     | 59.7           | 46.9         | 79       | 3   | 78-130/34         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                  |            | 59.8  | 64.8        | 108     | 59.7           | 66.4         | 111      | 2   | 70-129/27         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                  |            | 59.8  | 253         | 423*    | 59.7           | 177          | 297*     | 35* | 74-124/28         |
| 79-01-6   | Trichloroethylene         | ND                  |            | 59.8  | 63.8        | 107     | 59.7           | 63.5         | 106      | 0   | 75-128/27         |
| 75-69-4   | Trichlorofluoromethane    | ND                  |            | 59.8  | 62.4        | 104     | 59.7           | 65.4         | 110      | 5   | 73-145/31         |
| 75-01-4   | Vinyl Chloride            | ND                  |            | 59.8  | 63.1        | 106     | 59.7           | 61.3         | 103      | 3   | 76-141/27         |
| 1330-20-7 | Xylene (total)            | 6.6                 | J          | 179   | 182         | 98      | 179            | 184          | 99       | 1   | 80-129/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80928-18 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 98%  | 104%       | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94%  | 92%  | 94%        | 72-135% |
| 2037-26-5  | Toluene-D8            | 104% | 103% | 147% * c   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 92%  | 84%        | 71-133% |

- (a) Confirmation run for surrogate recoveries.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS  | 3C12237.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18MSD | 3C12238.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18    | 3C12224.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-22, FA80977-24

| CAS No.    | Compound                    | FA80928-18<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg     | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|---------------------|---------------------|-------------|---------|--------------------|--------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                  |                     | 299         | 365     | 122                | 298          | 371      | 2   | 61-152/27         |
| 71-43-2    | Benzene                     | 8.5                 |                     | 59.8        | 51.5    | 72*                | 59.7         | 52.7     | 2   | 76-126/26         |
| 75-27-4    | Bromodichloromethane        | ND                  |                     | 59.8        | 50.3    | 84                 | 59.7         | 51.3     | 2   | 74-130/25         |
| 75-25-2    | Bromoform                   | ND                  |                     | 59.8        | 46.9    | 78                 | 59.7         | 48.6     | 4   | 76-127/26         |
| 78-93-3    | 2-Butanone (MEK)            | ND                  |                     | 299         | 263     | 88                 | 298          | 267      | 2   | 75-137/25         |
| 75-15-0    | Carbon Disulfide            | 0.89                | J                   | 59.8        | 54.2    | 89                 | 59.7         | 54.4     | 0   | 72-122/29         |
| 56-23-5    | Carbon Tetrachloride        | ND                  |                     | 59.8        | 57.4    | 96                 | 59.7         | 60.5     | 5   | 78-133/29         |
| 108-90-7   | Chlorobenzene               | ND                  |                     | 59.8        | 53.5    | 89                 | 59.7         | 54.3     | 1   | 81-129/29         |
| 75-00-3    | Chloroethane                | ND                  |                     | 59.8        | 67.4    | 113                | 59.7         | 65.5     | 3   | 68-133/29         |
| 67-66-3    | Chloroform                  | ND                  |                     | 59.8        | 52.7    | 88                 | 59.7         | 52.8     | 0   | 72-123/26         |
| 110-82-7   | Cyclohexane                 | 4.0                 |                     | 59.8        | 56.1    | 87                 | 59.7         | 57.7     | 3   | 73-126/32         |
| 124-48-1   | Dibromochloromethane        | ND                  |                     | 59.8        | 48.3    | 81                 | 59.7         | 49.9     | 3   | 76-127/27         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                  |                     | 59.8        | 50.6    | 85                 | 59.7         | 53.5     | 6   | 70-137/29         |
| 106-93-4   | 1,2-Dibromoethane           | ND                  |                     | 59.8        | 49.4    | 83                 | 59.7         | 49.7     | 1   | 77-126/26         |
| 75-71-8    | Dichlorodifluoromethane     | ND                  |                     | 59.8        | 55.1    | 92                 | 59.7         | 54.0     | 2   | 68-168/29         |
| 95-50-1    | 1,2-Dichlorobenzene         | 2.1                 | J                   | 59.8        | 48.9    | 78*                | 59.7         | 49.8     | 2   | 80-129/32         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                  |                     | 59.8        | 51.4    | 86                 | 59.7         | 52.8     | 3   | 81-129/33         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                  |                     | 59.8        | 50.1    | 84                 | 59.7         | 50.9     | 2   | 76-130/32         |
| 75-34-3    | 1,1-Dichloroethane          | ND                  |                     | 59.8        | 55.9    | 93                 | 59.7         | 56.1     | 0   | 73-125/27         |
| 107-06-2   | 1,2-Dichloroethane          | ND                  |                     | 59.8        | 47.1    | 79                 | 59.7         | 46.7     | 1   | 74-128/23         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                  |                     | 59.8        | 62.4    | 104                | 59.7         | 62.5     | 0   | 81-136/28         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                  |                     | 59.8        | 50.5    | 84                 | 59.7         | 51.9     | 3   | 74-126/26         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                  |                     | 59.8        | 57.0    | 95                 | 59.7         | 57.2     | 0   | 70-127/27         |
| 78-87-5    | 1,2-Dichloropropane         | ND                  |                     | 59.8        | 48.3    | 81                 | 59.7         | 48.5     | 0   | 74-125/25         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                  |                     | 59.8        | 44.4    | 74*                | 59.7         | 45.4     | 2   | 80-123/26         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                  |                     | 59.8        | 47.8    | 80                 | 59.7         | 48.0     | 0   | 75-131/28         |
| 100-41-4   | Ethylbenzene                | 8.9                 |                     | 59.8        | 58.8    | 83                 | 59.7         | 59.3     | 1   | 77-123/31         |
| 76-13-1    | Freon 113                   | ND                  |                     | 59.8        | 55.6    | 93                 | 59.7         | 55.7     | 0   | 71-129/30         |
| 591-78-6   | 2-Hexanone                  | ND                  |                     | 299         | 298     | 100                | 298          | 304      | 2   | 72-133/26         |
| 98-82-8    | Isopropylbenzene            | 134                 |                     | 59.8        | 60.0    | -124* <sup>a</sup> | 59.7         | 62.9     | 5   | 80-136/32         |
| 79-20-9    | Methyl Acetate              | ND                  |                     | 299         | 257     | 86                 | 298          | 264      | 3   | 67-137/30         |
| 74-83-9    | Methyl Bromide              | ND                  |                     | 59.8        | 49.5    | 83                 | 59.7         | 54.4     | 9   | 65-139/31         |
| 74-87-3    | Methyl Chloride             | ND                  |                     | 59.8        | 56.6    | 95                 | 59.7         | 55.5     | 2   | 71-144/27         |
| 108-87-2   | Methylcyclohexane           | 90.8                |                     | 59.8        | 61.7    | -49* <sup>a</sup>  | 59.7         | 64.2     | 4   | 75-128/31         |
| 75-09-2    | Methylene Chloride          | ND                  |                     | 59.8        | 52.2    | 87                 | 59.7         | 51.5     | 1   | 74-137/28         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                  |                     | 299         | 283     | 95                 | 298          | 289      | 2   | 76-132/26         |

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS  | 3C12237.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18MSD | 3C12238.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18    | 3C12224.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-22, FA80977-24

| CAS No.   | Compound                  | FA80928-18<br>ug/kg | Spike<br>Q | ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|---------------------|------------|-------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                  |            | 59.8  | 44.3        | 74*     | 59.7           | 44.6         | 75*      | 1   | 77-120/24         |
| 100-42-5  | Styrene                   | ND                  |            | 59.8  | 52.5        | 88      | 59.7           | 53.9         | 90       | 3   | 78-125/30         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                  |            | 59.8  | 52.4        | 88      | 59.7           | 54.3         | 91       | 4   | 71-126/30         |
| 127-18-4  | Tetrachloroethylene       | ND                  |            | 59.8  | 61.2        | 102     | 59.7           | 63.7         | 107      | 4   | 79-130/31         |
| 108-88-3  | Toluene                   | ND                  |            | 59.8  | 55.0        | 92      | 59.7           | 56.1         | 94       | 2   | 76-124/30         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                  |            | 59.8  | 49.4        | 83      | 59.7           | 49.2         | 82       | 0   | 78-130/34         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                  |            | 59.8  | 60.4        | 101     | 59.7           | 60.9         | 102      | 1   | 70-129/27         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                  |            | 59.8  | 52.6        | 88      | 59.7           | 55.2         | 93       | 5   | 74-124/28         |
| 79-01-6   | Trichloroethylene         | ND                  |            | 59.8  | 54.1        | 90      | 59.7           | 55.6         | 93       | 3   | 75-128/27         |
| 75-69-4   | Trichlorofluoromethane    | ND                  |            | 59.8  | 72.4        | 121     | 59.7           | 71.3         | 119      | 2   | 73-145/31         |
| 75-01-4   | Vinyl Chloride            | ND                  |            | 59.8  | 59.8        | 100     | 59.7           | 61.1         | 102      | 2   | 76-141/27         |
| 1330-20-7 | Xylene (total)            | 4.3                 | J          | 179   | 179         | 97      | 179            | 178          | 97       | 1   | 80-129/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80928-18 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 100% | 97%        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 115% | 107%       | 72-135% |
| 2037-26-5  | Toluene-D8            | 103% | 103% | 107%       | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%  | 98%  | 92%        | 71-133% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80977-1MS  | 3C12274.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C515           |
| FA80977-1MSD | 3C12275.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C515           |
| FA80977-1    | 3C12254.D | 1  | 11/30/20 | SP | n/a       | n/a        | V3C515           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-1, FA80977-2, FA80977-3, FA80977-4, FA80977-5, FA80977-6, FA80977-7, FA80977-8, FA80977-9, FA80977-10, FA80977-11, FA80977-12, FA80977-13, FA80977-14, FA80977-15, FA80977-16, FA80977-17, FA80977-18, FA80977-19, FA80977-20

| CAS No.    | Compound                    | FA80977-1<br>ug/kg | Spike<br>Q | ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|--------------------|------------|-------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | 75.0               | J          | 292   | 279         | 70      | 295            | 303          | 77       | 8   | 61-152/27         |
| 71-43-2    | Benzene                     | 1.3                | J          | 58.4  | 41.6        | 69*     | 59             | 48.6         | 80       | 16  | 76-126/26         |
| 75-27-4    | Bromodichloromethane        | ND                 |            | 58.4  | 37.8        | 65*     | 59             | 48.2         | 82       | 24  | 74-130/25         |
| 75-25-2    | Bromoform                   | ND                 |            | 58.4  | 27.2        | 47*     | 59             | 37.2         | 63*      | 31* | 76-127/26         |
| 78-93-3    | 2-Butanone (MEK)            | 8.1                | J          | 292   | 211         | 69*     | 295            | 240          | 79       | 13  | 75-137/25         |
| 75-15-0    | Carbon Disulfide            | 1.2                | J          | 58.4  | 49.3        | 82      | 59             | 54.9         | 91       | 11  | 72-122/29         |
| 56-23-5    | Carbon Tetrachloride        | ND                 |            | 58.4  | 55.2        | 94      | 59             | 61.8         | 105      | 11  | 78-133/29         |
| 108-90-7   | Chlorobenzene               | 28.8               |            | 58.4  | 38.7        | 17*     | 59             | 50.4         | 37*      | 26  | 81-129/29         |
| 75-00-3    | Chloroethane                | ND                 |            | 58.4  | 52.9        | 91      | 59             | 59.0         | 100      | 11  | 68-133/29         |
| 67-66-3    | Chloroform                  | ND                 |            | 58.4  | 40.5        | 69*     | 59             | 49.4         | 84       | 20  | 72-123/26         |
| 110-82-7   | Cyclohexane                 | 1.9                | J          | 58.4  | 56.4        | 93      | 59             | 60.0         | 98       | 6   | 73-126/32         |
| 124-48-1   | Dibromochloromethane        | ND                 |            | 58.4  | 30.0        | 51*     | 59             | 41.0         | 69*      | 31* | 76-127/27         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                 |            | 58.4  | 27.3        | 47*     | 59             | 34.4         | 58*      | 23  | 70-137/29         |
| 106-93-4   | 1,2-Dibromoethane           | ND                 |            | 58.4  | 28.7        | 49*     | 59             | 39.0         | 66*      | 30* | 77-126/26         |
| 75-71-8    | Dichlorodifluoromethane     | ND                 |            | 58.4  | 50.5        | 86      | 59             | 54.3         | 92       | 7   | 68-168/29         |
| 95-50-1    | 1,2-Dichlorobenzene         | 2.5                | J          | 58.4  | 26.7        | 41*     | 59             | 36.2         | 57*      | 30  | 80-129/32         |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.1                | J          | 58.4  | 28.7        | 47*     | 59             | 37.4         | 62*      | 26  | 81-129/33         |
| 106-46-7   | 1,4-Dichlorobenzene         | 3.4                | J          | 58.4  | 29.4        | 45*     | 59             | 39.8         | 62*      | 30  | 76-130/32         |
| 75-34-3    | 1,1-Dichloroethane          | ND                 |            | 58.4  | 44.9        | 77      | 59             | 52.5         | 89       | 16  | 73-125/27         |
| 107-06-2   | 1,2-Dichloroethane          | ND                 |            | 58.4  | 33.4        | 57*     | 59             | 43.7         | 74       | 27* | 74-128/23         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                 |            | 58.4  | 53.2        | 91      | 59             | 58.0         | 98       | 9   | 81-136/28         |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.2                | J          | 58.4  | 39.0        | 65*     | 59             | 47.5         | 78       | 20  | 74-126/26         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                 |            | 58.4  | 46.9        | 80      | 59             | 53.8         | 91       | 14  | 70-127/27         |
| 78-87-5    | 1,2-Dichloropropane         | ND                 |            | 58.4  | 37.1        | 63*     | 59             | 45.9         | 78       | 21  | 74-125/25         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                 |            | 58.4  | 32.0        | 55*     | 59             | 41.0         | 69*      | 25  | 80-123/26         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                 |            | 58.4  | 31.0        | 53*     | 59             | 40.9         | 69*      | 28  | 75-131/28         |
| 100-41-4   | Ethylbenzene                | 1.7                | J          | 58.4  | 41.3        | 68*     | 59             | 49.7         | 81       | 18  | 77-123/31         |
| 76-13-1    | Freon 113                   | ND                 |            | 58.4  | 55.4        | 95      | 59             | 58.1         | 98       | 5   | 71-129/30         |
| 591-78-6   | 2-Hexanone                  | ND                 |            | 292   | 202         | 69*     | 295            | 240          | 81       | 17  | 72-133/26         |
| 98-82-8    | Isopropylbenzene            | ND                 |            | 58.4  | 41.7        | 71*     | 59             | 49.0         | 83       | 16  | 80-136/32         |
| 79-20-9    | Methyl Acetate              | ND                 |            | 292   | 253         | 87      | 295            | 313          | 106      | 21  | 67-137/30         |
| 74-83-9    | Methyl Bromide              | ND                 |            | 58.4  | 42.0        | 72      | 59             | 51.3         | 87       | 20  | 65-139/31         |
| 74-87-3    | Methyl Chloride             | ND                 |            | 58.4  | 42.8        | 73      | 59             | 49.5         | 84       | 15  | 71-144/27         |
| 108-87-2   | Methylcyclohexane           | 4.0                |            | 58.4  | 63.6        | 102     | 59             | 67.7         | 108      | 6   | 75-128/31         |
| 75-09-2    | Methylene Chloride          | ND                 |            | 58.4  | 39.5        | 68*     | 59             | 49.9         | 85       | 23  | 74-137/28         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                 |            | 292   | 180         | 62*     | 295            | 230          | 78       | 24  | 76-132/26         |

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80977  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80977-1MS  | 3C12274.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C515           |
| FA80977-1MSD | 3C12275.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C515           |
| FA80977-1    | 3C12254.D | 1  | 11/30/20 | SP | n/a       | n/a        | V3C515           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80977-1, FA80977-2, FA80977-3, FA80977-4, FA80977-5, FA80977-6, FA80977-7, FA80977-8, FA80977-9, FA80977-10, FA80977-11, FA80977-12, FA80977-13, FA80977-14, FA80977-15, FA80977-16, FA80977-17, FA80977-18, FA80977-19, FA80977-20

| CAS No.   | Compound                  | FA80977-1<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|-----------|---------------------------|--------------------|---------------------|-------------|---------|----------------|--------------|----------|-----|-------------------|-----------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                 |                     | 58.4        | 31.5    | 54*            | 59           | 41.8     | 71* | 28*               | 77-120/24 |
| 100-42-5  | Styrene                   | ND                 |                     | 58.4        | 31.6    | 54*            | 59           | 39.2     | 66* | 21                | 78-125/30 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                 |                     | 58.4        | 28.1    | 48*            | 59           | 37.1     | 63* | 28                | 71-126/30 |
| 127-18-4  | Tetrachloroethylene       | ND                 |                     | 58.4        | 46.8    | 80             | 59           | 54.7     | 93  | 16                | 79-130/31 |
| 108-88-3  | Toluene                   | ND                 |                     | 58.4        | 39.0    | 67*            | 59           | 46.7     | 79  | 18                | 76-124/30 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                 |                     | 58.4        | 20.1    | 34*            | 59           | 25.0     | 42* | 22                | 78-130/34 |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                 |                     | 58.4        | 51.0    | 87             | 59           | 57.1     | 97  | 11                | 70-129/27 |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                 |                     | 58.4        | 30.6    | 52*            | 59           | 40.6     | 69* | 28                | 74-124/28 |
| 79-01-6   | Trichloroethylene         | ND                 |                     | 58.4        | 45.6    | 78             | 59           | 51.8     | 88  | 13                | 75-128/27 |
| 75-69-4   | Trichlorofluoromethane    | ND                 |                     | 58.4        | 68.5    | 117            | 59           | 72.2     | 122 | 5                 | 73-145/31 |
| 75-01-4   | Vinyl Chloride            | 2.4                | J                   | 58.4        | 50.7    | 83             | 59           | 56.2     | 91  | 10                | 76-141/27 |
| 1330-20-7 | Xylene (total)            | 2.7                | J                   | 175         | 120     | 67*            | 177          | 146      | 81  | 20                | 80-129/30 |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80977-1 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 101% | 103%      | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | 106% | 111%      | 72-135% |
| 2037-26-5  | Toluene-D8            | 96%  | 96%  | 98%       | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 94%  | 96%       | 71-133% |

\* = Outside of Control Limits.

5.3.3  
5



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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

ARCADIS Geraghty & Miller

Brenntag; Charleston, SC

SC000204.0011.00001

SGS Job Number: FA81038

Sampling Date: 11/19/20

Report to:

ARCADIS Geraghty & Miller  
1450 Greene St Suite 220  
Augusta, GA 30901  
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ATTN: Charles Lawson

Total number of pages in report: 27



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

A handwritten signature in black ink that reads "Norm Farmer".

Norm Farmer  
Technical Director

Client Service contact: Evita Martinez 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

Job No: FA81038

Brenntag, Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

---

|           |          |       |    |          |    |      |            |
|-----------|----------|-------|----|----------|----|------|------------|
| FA81038-1 | 11/19/20 | 08:04 | CL | 11/20/20 | SO | Soil | A2-20 (3') |
| FA81038-2 | 11/19/20 | 08:07 | CL | 11/20/20 | SO | Soil | A2-20 (5') |
| FA81038-3 | 11/19/20 | 08:38 | CL | 11/20/20 | SO | Soil | A2-26 (3') |
| FA81038-4 | 11/19/20 | 08:41 | CL | 11/20/20 | SO | Soil | A2-26 (6') |

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** FA81038  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA81038-1 A2-20 (3')**

|                            |        |     |      |       |             |
|----------------------------|--------|-----|------|-------|-------------|
| Acetone                    | 74.4 J | 130 | 67   | ug/kg | SW846 8260D |
| Benzene                    | 6.3    | 3.3 | 0.82 | ug/kg | SW846 8260D |
| 2-Butanone (MEK)           | 14.7 J | 17  | 4.9  | ug/kg | SW846 8260D |
| Chlorobenzene              | 85.3   | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Cyclohexane                | 18.7   | 3.3 | 0.84 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene        | 10.8   | 3.3 | 0.67 | ug/kg | SW846 8260D |
| 1,3-Dichlorobenzene        | 2.6 J  | 3.3 | 0.67 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene        | 10.8   | 3.3 | 0.77 | ug/kg | SW846 8260D |
| 1,1-Dichloroethane         | 3.0 J  | 3.3 | 1.2  | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene   | 7.6    | 3.3 | 0.92 | ug/kg | SW846 8260D |
| trans-1,2-Dichloroethylene | 0.74 J | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Ethylbenzene               | 9.8    | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Methylcyclohexane          | 12.7   | 3.3 | 1.1  | ug/kg | SW846 8260D |
| Vinyl Chloride             | 2.3 J  | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Xylene (total)             | 40.4   | 10  | 1.4  | ug/kg | SW846 8260D |

**FA81038-2 A2-20 (5')**

|                          |        |     |      |       |             |
|--------------------------|--------|-----|------|-------|-------------|
| Acetone                  | 78.2 J | 130 | 67   | ug/kg | SW846 8260D |
| Benzene                  | 1.5 J  | 3.3 | 0.81 | ug/kg | SW846 8260D |
| 2-Butanone (MEK)         | 8.5 J  | 17  | 4.8  | ug/kg | SW846 8260D |
| Chlorobenzene            | 8.4    | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Cyclohexane              | 11.0   | 3.3 | 0.83 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene      | 1.3 J  | 3.3 | 0.67 | ug/kg | SW846 8260D |
| 1,4-Dichlorobenzene      | 1.6 J  | 3.3 | 0.77 | ug/kg | SW846 8260D |
| 1,1-Dichloroethane       | 1.6 J  | 3.3 | 1.2  | ug/kg | SW846 8260D |
| cis-1,2-Dichloroethylene | 2.4 J  | 3.3 | 0.92 | ug/kg | SW846 8260D |
| Ethylbenzene             | 5.9    | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Methylcyclohexane        | 6.6    | 3.3 | 1.1  | ug/kg | SW846 8260D |
| Vinyl Chloride           | 1.5 J  | 3.3 | 0.67 | ug/kg | SW846 8260D |
| Xylene (total)           | 31.2   | 10  | 1.4  | ug/kg | SW846 8260D |

**FA81038-3 A2-26 (3')**

|                     |       |      |     |       |             |
|---------------------|-------|------|-----|-------|-------------|
| 1,2-Dichlorobenzene | 390 J | 910  | 180 | ug/kg | SW846 8260D |
| Ethylbenzene        | 2970  | 910  | 180 | ug/kg | SW846 8260D |
| Xylene (total)      | 13600 | 2700 | 380 | ug/kg | SW846 8260D |

**FA81038-4 A2-26 (6')**

|                     |        |      |      |       |             |
|---------------------|--------|------|------|-------|-------------|
| Benzene             | 1590 J | 4500 | 1100 | ug/kg | SW846 8260D |
| Cyclohexane         | 2190 J | 4500 | 1100 | ug/kg | SW846 8260D |
| 1,2-Dichlorobenzene | 73900  | 4500 | 900  | ug/kg | SW846 8260D |

## Summary of Hits

**Job Number:** FA81038  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL     | MDL    | Units | Method      |
|---------------|------------------|-----------------|--------|--------|-------|-------------|
|               |                  | 5680            | 4500   | 900    | ug/kg | SW846 8260D |
|               |                  | 15000           | 4500   | 1000   | ug/kg | SW846 8260D |
|               |                  | 1020000         | 90000  | 18000  | ug/kg | SW846 8260D |
|               |                  | 24900           | 4500   | 900    | ug/kg | SW846 8260D |
|               |                  | 2700 J          | 4500   | 1500   | ug/kg | SW846 8260D |
|               |                  | 503000          | 360000 | 180000 | ug/kg | SW846 8260D |
|               |                  | 1390 J          | 4500   | 900    | ug/kg | SW846 8260D |
|               |                  | 5440000         | 270000 | 38000  | ug/kg | SW846 8260D |

Sample Results

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Report of Analysis

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# Report of Analysis

3.1  
3

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (3')      |  |                                |
| <b>Lab Sample ID:</b> FA81038-1          |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> SO - Soil                 |  | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> 87.5    |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12233.D | 1  | 11/27/20 20:54 | SP | n/a       | n/a        | V3C513           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.54 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 74.4   | 130 | 67   | ug/kg | J |
| 71-43-2    | Benzene                              | 6.3    | 3.3 | 0.82 | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.3 | 0.67 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 14.7   | 17  | 4.9  | ug/kg | J |
| 75-15-0    | Carbon Disulfide                     | ND     | 3.3 | 0.67 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.3 | 0.68 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 85.3   | 3.3 | 0.67 | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND     | 3.3 | 1.3  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.3 | 0.89 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 18.7   | 3.3 | 0.84 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.3 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 3.3 | 1.3  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 10.8   | 3.3 | 0.67 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 2.6    | 3.3 | 0.67 | ug/kg | J |
| 106-46-7   | 1,4-Dichlorobenzene                  | 10.8   | 3.3 | 0.77 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | 3.0    | 3.3 | 1.2  | ug/kg | J |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 7.6    | 3.3 | 0.92 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | 0.74   | 3.3 | 0.67 | ug/kg | J |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.3 | 0.67 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.3 | 0.67 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.3 | 0.67 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 9.8    | 3.3 | 0.67 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 3.3 | 0.88 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 17  | 5.0  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 17  | 6.0  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 3.3 | 1.3  | ug/kg |   |

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

## Report of Analysis

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3

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (3')      |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81038-1          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 87.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.3 | 1.3  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 12.7   | 3.3 | 1.1  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 13  | 7.4  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.0  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.3 | 0.67 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.3 | 0.67 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.3 | 0.86 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 13  | 6.7  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.3 | 0.67 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 3.3 | 1.3  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 2.3    | 3.3 | 0.67 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | 40.4   | 10  | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 120%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 116%   |        | 71-133% |

(a) Associated CCV outside of control limits low.

(b) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (5')      |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81038-2          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.8    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12234.D | 1  | 11/27/20 21:20 | SP | n/a       | n/a        | V3C513           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 8.84 g         | 5.0 ml       |
| Run #2 |                |              |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | 78.2   | 130 | 67   | ug/kg | J |
| 71-43-2    | Benzene                              | 1.5    | 3.3 | 0.81 | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 3.3 | 0.67 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | 8.5    | 17  | 4.8  | ug/kg | J |
| 75-15-0    | Carbon Disulfide                     | ND     | 3.3 | 0.67 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 3.3 | 0.68 | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | 8.4    | 3.3 | 0.67 | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND     | 3.3 | 1.3  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 3.3 | 0.89 | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 11.0   | 3.3 | 0.83 | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 3.3 | 1.3  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 3.3 | 1.3  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 1.3    | 3.3 | 0.67 | ug/kg | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 3.3 | 0.67 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 1.6    | 3.3 | 0.77 | ug/kg | J |
| 75-34-3    | 1,1-Dichloroethane                   | 1.6    | 3.3 | 1.2  | ug/kg | J |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 3.3 | 0.67 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 2.4    | 3.3 | 0.92 | ug/kg | J |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 3.3 | 0.67 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 3.3 | 0.67 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 3.3 | 0.67 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 3.3 | 0.67 | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 5.9    | 3.3 | 0.67 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 3.3 | 0.88 | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 17  | 5.0  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 17  | 5.9  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 3.3 | 1.3  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (5')      |                                |
| <b>Lab Sample ID:</b> FA81038-2          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 84.8    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 3.3 | 1.3  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 6.6    | 3.3 | 1.1  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 13  | 7.3  | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 17  | 5.0  | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 3.3 | 0.67 | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 3.3 | 0.67 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 3.3 | 0.85 | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 13  | 6.7  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 3.3 | 0.67 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 3.3 | 0.67 | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 3.3 | 0.67 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 3.3 | 1.3  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | 1.5    | 3.3 | 0.67 | ug/kg | J |
| 1330-20-7 | Xylene (total)                      | 31.2   | 10  | 1.4  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 108%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

(b) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-26 (3')      |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81038-3          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 90.1    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12235.D | 1  | 11/27/20 21:47 | SP | n/a       | n/a        | V3C513           |
| Run #2 |           |    |                |    |           |            |                  |

| Run #  | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 6.91 g         | 5.0 ml       | 25.0 ul          |
| Run #2 |                |              |                  |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL    | MDL   | Units | Q |
|------------|--------------------------------------|--------|-------|-------|-------|---|
| 67-64-1    | Acetone                              | ND     | 37000 | 18000 | ug/kg |   |
| 71-43-2    | Benzene                              | ND     | 910   | 220   | ug/kg |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 910   | 180   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND     | 910   | 180   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 4600  | 1300  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 910   | 180   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 910   | 190   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND     | 910   | 180   | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND     | 910   | 370   | ug/kg |   |
| 67-66-3    | Chloroform                           | ND     | 910   | 240   | ug/kg |   |
| 110-82-7   | Cyclohexane                          | ND     | 910   | 230   | ug/kg |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 910   | 180   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 910   | 350   | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 910   | 180   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 910   | 370   | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 390    | 910   | 180   | ug/kg | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 910   | 180   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 910   | 210   | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 910   | 320   | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 910   | 180   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 910   | 180   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 910   | 250   | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 910   | 180   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 910   | 180   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 910   | 180   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 910   | 180   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 2970   | 910   | 180   | ug/kg |   |
| 76-13-1    | Freon 113                            | ND     | 910   | 240   | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND     | 4600  | 1400  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 910   | 180   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND     | 4600  | 1600  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND     | 910   | 370   | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-26 (3')      |                                |
| <b>Lab Sample ID:</b> FA81038-3          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> SO - Soil                 | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> 90.1    |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL   | MDL  | Units | Q |
|-----------|-------------------------------------|--------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 910  | 370  | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 910  | 310  | ug/kg |   |
| 75-09-2   | Methylene Chloride                  | ND     | 3700 | 2000 | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 4600 | 1400 | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 910  | 180  | ug/kg |   |
| 100-42-5  | Styrene                             | ND     | 910  | 180  | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 910  | 180  | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 910  | 230  | ug/kg |   |
| 108-88-3  | Toluene                             | ND     | 3700 | 1800 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 910  | 180  | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 910  | 180  | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 910  | 180  | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | ND     | 910  | 180  | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 910  | 370  | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 910  | 180  | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 13600  | 2700 | 380  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 72-135% |
| 2037-26-5  | Toluene-D8            | 108%   |        | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 71-133% |

(a) Associated CCV outside of control limits low.

(b) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-26 (6')      |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81038-4          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> SO - Soil                 |  | <b>Percent Solids:</b> 84.5    |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 3C12236.D | 1  | 11/27/20 22:13 | SP | n/a       | n/a        | V3C513           |
| Run #2 | 3C12294.D | 10 | 12/01/20 17:48 | SP | n/a       | n/a        | V3C517           |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 8.21 g         | 5.0 ml       | 5.0 ul           |
| Run #2 | 8.21 g         | 5.0 ml       | 2.5 ul           |

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result               | RL     | MDL   | Units | Q |
|------------|--------------------------------------|----------------------|--------|-------|-------|---|
| 67-64-1    | Acetone                              | ND                   | 180000 | 90000 | ug/kg |   |
| 71-43-2    | Benzene                              | 1590                 | 4500   | 1100  | ug/kg | J |
| 75-27-4    | Bromodichloromethane                 | ND                   | 4500   | 900   | ug/kg |   |
| 75-25-2    | Bromoform                            | ND                   | 4500   | 900   | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                   | 23000  | 6600  | ug/kg |   |
| 75-15-0    | Carbon Disulfide                     | ND                   | 4500   | 900   | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                   | 4500   | 920   | ug/kg |   |
| 108-90-7   | Chlorobenzene                        | ND                   | 4500   | 900   | ug/kg |   |
| 75-00-3    | Chloroethane                         | ND                   | 4500   | 1800  | ug/kg |   |
| 67-66-3    | Chloroform                           | ND                   | 4500   | 1200  | ug/kg |   |
| 110-82-7   | Cyclohexane                          | 2190                 | 4500   | 1100  | ug/kg | J |
| 124-48-1   | Dibromochloromethane                 | ND                   | 4500   | 900   | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                   | 4500   | 1700  | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                   | 4500   | 900   | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND                   | 4500   | 1800  | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 73900                | 4500   | 900   | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | 5680                 | 4500   | 900   | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 15000                | 4500   | 1000  | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                   | 4500   | 1600  | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                   | 4500   | 900   | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                   | 4500   | 900   | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND                   | 4500   | 1200  | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                   | 4500   | 900   | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                   | 4500   | 900   | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                   | 4500   | 900   | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                   | 4500   | 900   | ug/kg |   |
| 100-41-4   | Ethylbenzene                         | 1020000 <sup>b</sup> | 90000  | 18000 | ug/kg |   |
| 76-13-1    | Freon 113                            | ND                   | 4500   | 1200  | ug/kg |   |
| 591-78-6   | 2-Hexanone                           | ND                   | 23000  | 6800  | ug/kg |   |
| 98-82-8    | Isopropylbenzene                     | 24900                | 4500   | 900   | ug/kg |   |
| 79-20-9    | Methyl Acetate                       | ND                   | 23000  | 8100  | ug/kg |   |
| 74-83-9    | Methyl Bromide                       | ND                   | 4500   | 1800  | ug/kg |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-26 (6')               | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81038-4                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | SO - Soil                | <b>Percent Solids:</b> | 84.5     |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result               | RL     | MDL    | Units | Q |
|-----------|-------------------------------------|----------------------|--------|--------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                   | 4500   | 1800   | ug/kg |   |
| 108-87-2  | Methylcyclohexane                   | 2700                 | 4500   | 1500   | ug/kg | J |
| 75-09-2   | Methylene Chloride                  | ND                   | 18000  | 9900   | ug/kg |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                   | 23000  | 6800   | ug/kg |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                   | 4500   | 900    | ug/kg |   |
| 100-42-5  | Styrene                             | ND                   | 4500   | 900    | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                   | 4500   | 900    | ug/kg |   |
| 127-18-4  | Tetrachloroethylene                 | ND                   | 4500   | 1200   | ug/kg |   |
| 108-88-3  | Toluene                             | 503000 <sup>b</sup>  | 360000 | 180000 | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                   | 4500   | 900    | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                   | 4500   | 900    | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                   | 4500   | 900    | ug/kg |   |
| 79-01-6   | Trichloroethylene                   | 1390                 | 4500   | 900    | ug/kg | J |
| 75-69-4   | Trichlorofluoromethane <sup>c</sup> | ND                   | 4500   | 1800   | ug/kg |   |
| 75-01-4   | Vinyl Chloride                      | ND                   | 4500   | 900    | ug/kg |   |
| 1330-20-7 | Xylene (total)                      | 5440000 <sup>b</sup> | 270000 | 38000  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 94%    | 99%    | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   | 104%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 115%   | 101%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    | 96%    | 71-133% |

(a) Associated CCV outside of control limits low.

(b) Result is from Run# 2

(c) Associated ICV outside control limits low. Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ID#: \_\_\_\_\_

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page \_\_\_ of \_\_\_

Lab Work Order # \_\_\_\_\_

|  |   |  |                            |                            |                                    |                          |  |                               |  |   |
|--|---|--|----------------------------|----------------------------|------------------------------------|--------------------------|--|-------------------------------|--|---|
| Send Results to:<br>Contact & Company Name:<br>Address:<br>City State Zip<br>Project Name/Location (City, State)<br>Sampler's Printed Name | Telephone:<br>706-828-4421  |  | Preservative: F            |                            |                                    |                          |  |                               |  | <b>Preservation Key:</b><br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: <u>MedW</u><br>G. Other: _____<br>H. Other: _____<br><br><b>Matrix Key:</b><br>SO - Soil<br>W - Water<br>T - Tissue<br>SE - Sediment<br>SL - Sludge<br>A - Air<br>NL - NAPL/Oil<br>SW - Sample Wipe<br>Other: _____ |
|  | Fax: _____  |  | Filtered (✓):              |                            |                                    |                          |  |                               |  |   |
| 1450 Greene St Ste 220<br>Augusta GA 30901<br>Brennan Charleston SC  |   | E-mail Address: Charles.Watson@arcadis.com |                            | # of Containers: 4         |                                    |                          |  |                               |  |   |
| Project #: 30062543  |   | Sampler's Signature: <u>CB Leun</u>        |                            | Container Information: 4   |                                    |                          |  |                               |  |   |
| <b>PARAMETER ANALYSIS &amp; METHOD</b>   |   |  |                            |                            |                                    |                          |  |                               |  |   |
| Sample ID  | Collection  |  | Type (✓)                   |                            | Matrix                             | 8260<br>SP16KIT<br>4 VLA |  |                               |  |   |
|  | Date  | Time                                       | Comp                       | Grab                       |                                    |                          |  |                               |  |   |
| A#2-20 (3')  | 11/19/2020  | 8:24                                       |                            | X                          | SO                                 | 4                        |  |                               |  |   |
| A#2-20 (5')  | "   | 8:07                                       |                            | X                          | SO                                 | 4                        |  |                               |  |   |
| A#2-26 (3')  | "   | 8:38                                       |                            | X                          | SO                                 | 4                        |  |                               |  |   |
| A#2-26 (6')  | "   | 8:41                                       |                            | X                          | SO                                 | 4                        |  |                               |  |   |
| INITIALS/DESIGNATOR <u>JK</u>  |   |  |                            |                            |                                    |                          |  |                               |  |   |
| LABORATORY SIGNATURE _____   |   |  |                            |                            |                                    |                          |  |                               |  |   |
| Special Instructions/Comments: _____   |   |  |                            |                            |                                    |                          |  |                               |  |   |
| <input type="checkbox"/> Special QA/QC Instructions (✓): _____   |   |  |                            |                            |                                    |                          |  |                               |  |   |
| <b>Laboratory information and Receipt</b>  |   | <b>Relinquished By</b>                     |                            | <b>Received By</b>         |                                    | <b>Relinquished By</b>   |  | <b>Laboratory Received By</b> |  |   |
| Lab Name: <u>SGS</u>   | Cooler Custody Seal (✓)   | Printed Name: <u>Charles Watson</u>        | Printed Name: <u>Fedex</u> | Printed Name: <u>Fedex</u> | Printed Name: <u>Bryan Giraldo</u> |                          |  |                               |  |   |
| <input checked="" type="checkbox"/> Cooler packed with ice (✓)   | <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Signature: <u>CB Leun</u>                  | Signature: _____           | Signature: _____           | Signature: _____                   |                          |  |                               |  |   |
| Specify Turnaround Requirements:   | Sample Receipt:   | Firm: <u>Arcadis</u>                       | Firm/Courier: _____        | Firm/Courier: _____        | Firm: <u>SGS</u>                   |                          |  |                               |  |   |
| Shipping Tracking #:   | Condition/Cooler Temp: <u>3.0</u>                                   | Date/Time: <u>11/19/2020 13:00</u>         | Date/Time: _____           | Date/Time: _____           | Date/Time: <u>11/20/20 9:30</u>    |                          |  |                               |  |   |

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## SGS Sample Receipt Summary

Job Number: FA81038

Client: ARCADIS

Project: 30062543

Date / Time Received: 11/20/2020 9:30:00 AM

Delivery Method: FEDEX

Airbill #s: \_\_\_\_\_

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

**Cooler Information**

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |                          |

**Trip Blank Information**

Y or N N/A

- |                                |                          |                          |                                     |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | <u>W or S</u>            |                          | <u>N/A</u>                          |
| 3. Type Of TB Received         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Sample Information**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 11/20/2020 9:30:00 A

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA81038: Chain of Custody

Page 2 of 2

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## MS Volatiles

### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-MB | 3C12219.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-1, FA81038-2, FA81038-3, FA81038-4

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 200 | 100 | ug/kg |   |
| 71-43-2    | Benzene                     | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 7.3 | ug/kg |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.0 | ug/kg |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 2.0 | ug/kg |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.3 | ug/kg |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 1.3 | ug/kg |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.0 | ug/kg |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.9 | ug/kg |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 2.0 | ug/kg |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.2 | ug/kg |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.8 | ug/kg |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.0 | ug/kg |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 5.0 | 1.4 | ug/kg |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.0 | ug/kg |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.0 | ug/kg |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-41-4   | Ethylbenzene                | ND     | 5.0 | 1.0 | ug/kg |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 1.3 | ug/kg |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 7.5 | ug/kg |   |
| 98-82-8    | Isopropylbenzene            | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-20-9    | Methyl Acetate              | ND     | 25  | 8.9 | ug/kg |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0 | ug/kg |   |
| 74-87-3    | Methyl Chloride             | ND     | 5.0 | 2.0 | ug/kg |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0 | 1.7 | ug/kg |   |
| 75-09-2    | Methylene Chloride          | ND     | 20  | 11  | ug/kg |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 7.5 | ug/kg |   |

## Method Blank Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-MB | 3C12219.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-1, FA81038-2, FA81038-3, FA81038-4

| CAS No.   | Compound                  | Result | RL  | MDL | Units | Q |
|-----------|---------------------------|--------|-----|-----|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 5.0 | 1.0 | ug/kg |   |
| 100-42-5  | Styrene                   | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 5.0 | 1.0 | ug/kg |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 5.0 | 1.3 | ug/kg |   |
| 108-88-3  | Toluene                   | ND     | 20  | 10  | ug/kg |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 5.0 | 1.0 | ug/kg |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 5.0 | 1.0 | ug/kg |   |
| 79-01-6   | Trichloroethylene         | ND     | 5.0 | 1.0 | ug/kg |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 5.0 | 2.0 | ug/kg |   |
| 75-01-4   | Vinyl Chloride            | ND     | 5.0 | 1.0 | ug/kg |   |
| 1330-20-7 | Xylene (total)            | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   | 72-135% |
| 2037-26-5  | Toluene-D8            | 107%   | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   | 71-133% |

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## Method Blank Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C517-MB | 3C12286.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C517           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-4

| CAS No.   | Compound       | Result | RL  | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 100-41-4  | Ethylbenzene   | ND     | 5.0 | 1.0 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 20  | 10  | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 15  | 2.1 | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 100% 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% 72-135% |
| 2037-26-5  | Toluene-D8            | 98% 75-126%  |
| 460-00-4   | 4-Bromofluorobenzene  | 98% 71-133%  |

# Blank Spike Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-BS | 3C12217.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-1, FA81038-2, FA81038-3, FA81038-4

| CAS No.    | Compound                    | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|------------|-----------------------------|----------------|--------------|----------|--------|
| 67-64-1    | Acetone                     | 250            | 223          | 89       | 61-152 |
| 71-43-2    | Benzene                     | 50             | 48.5         | 97       | 76-126 |
| 75-27-4    | Bromodichloromethane        | 50             | 53.3         | 107      | 74-130 |
| 75-25-2    | Bromoform                   | 50             | 54.4         | 109      | 76-127 |
| 78-93-3    | 2-Butanone (MEK)            | 250            | 241          | 96       | 75-137 |
| 75-15-0    | Carbon Disulfide            | 50             | 43.9         | 88       | 72-122 |
| 56-23-5    | Carbon Tetrachloride        | 50             | 50.6         | 101      | 78-133 |
| 108-90-7   | Chlorobenzene               | 50             | 53.2         | 106      | 81-129 |
| 75-00-3    | Chloroethane                | 50             | 53.3         | 107      | 68-133 |
| 67-66-3    | Chloroform                  | 50             | 50.6         | 101      | 72-123 |
| 110-82-7   | Cyclohexane                 | 50             | 44.7         | 89       | 73-126 |
| 124-48-1   | Dibromochloromethane        | 50             | 55.5         | 111      | 76-127 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50             | 54.2         | 108      | 70-137 |
| 106-93-4   | 1,2-Dibromoethane           | 50             | 54.6         | 109      | 77-126 |
| 75-71-8    | Dichlorodifluoromethane     | 50             | 36.3         | 73       | 68-168 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50             | 55.3         | 111      | 80-129 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50             | 55.5         | 111      | 81-129 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50             | 54.3         | 109      | 76-130 |
| 75-34-3    | 1,1-Dichloroethane          | 50             | 52.1         | 104      | 73-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50             | 48.7         | 97       | 74-128 |
| 75-35-4    | 1,1-Dichloroethylene        | 50             | 51.3         | 103      | 81-136 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50             | 49.5         | 99       | 74-126 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 50             | 49.6         | 99       | 70-127 |
| 78-87-5    | 1,2-Dichloropropane         | 50             | 48.5         | 97       | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50             | 48.1         | 96       | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50             | 54.4         | 109      | 75-131 |
| 100-41-4   | Ethylbenzene                | 50             | 53.6         | 107      | 77-123 |
| 76-13-1    | Freon 113                   | 50             | 40.4         | 81       | 71-129 |
| 591-78-6   | 2-Hexanone                  | 250            | 279          | 112      | 72-133 |
| 98-82-8    | Isopropylbenzene            | 50             | 54.5         | 109      | 80-136 |
| 79-20-9    | Methyl Acetate              | 250            | 238          | 95       | 67-137 |
| 74-83-9    | Methyl Bromide              | 50             | 49.9         | 100      | 65-139 |
| 74-87-3    | Methyl Chloride             | 50             | 47.3         | 95       | 71-144 |
| 108-87-2   | Methylcyclohexane           | 50             | 46.1         | 92       | 75-128 |
| 75-09-2    | Methylene Chloride          | 50             | 52.4         | 105      | 74-137 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 250            | 277          | 111      | 76-132 |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C513-BS | 3C12217.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-1, FA81038-2, FA81038-3, FA81038-4

| CAS No.   | Compound                  | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|-----------|---------------------------|-------------|-----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 50          | 47.1      | 94    | 77-120 |
| 100-42-5  | Styrene                   | 50          | 54.8      | 110   | 78-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 50          | 56.7      | 113   | 71-126 |
| 127-18-4  | Tetrachloroethylene       | 50          | 55.6      | 111   | 79-130 |
| 108-88-3  | Toluene                   | 50          | 51.7      | 103   | 76-124 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 50          | 53.3      | 107   | 78-130 |
| 71-55-6   | 1,1,1-Trichloroethane     | 50          | 52.2      | 104   | 70-129 |
| 79-00-5   | 1,1,2-Trichloroethane     | 50          | 53.9      | 108   | 74-124 |
| 79-01-6   | Trichloroethylene         | 50          | 47.6      | 95    | 75-128 |
| 75-69-4   | Trichlorofluoromethane    | 50          | 54.8      | 110   | 73-145 |
| 75-01-4   | Vinyl Chloride            | 50          | 49.6      | 99    | 76-141 |
| 1330-20-7 | Xylene (total)            | 150         | 162       | 108   | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 72-135% |
| 2037-26-5  | Toluene-D8            | 106% | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%  | 71-133% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|-----------|----|----------|----|-----------|------------|------------------|
| V3C517-BS | 3C12281.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C517           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-4

| CAS No.   | Compound       | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|-----------|----------------|----------------|--------------|----------|--------|
| 100-41-4  | Ethylbenzene   | 50             | 49.5         | 99       | 77-123 |
| 108-88-3  | Toluene        | 50             | 46.7         | 93       | 76-124 |
| 1330-20-7 | Xylene (total) | 150            | 147          | 98       | 80-129 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%  | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%  | 71-133% |

\* = Outside of Control Limits.

5.2.2  
5



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS  | 3C12237.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18MSD | 3C12238.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18    | 3C12224.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-1, FA81038-2, FA81038-3, FA81038-4

| CAS No.    | Compound                    | FA80928-18<br>ug/kg | Spike<br>Q | ug/kg | MS<br>ug/kg | MS<br>%            | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>%           | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|---------------------|------------|-------|-------------|--------------------|----------------|--------------|--------------------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                  |            | 299   | 365         | 122                | 298            | 371          | 124                | 2   | 61-152/27         |
| 71-43-2    | Benzene                     | 8.5                 |            | 59.8  | 51.5        | 72*                | 59.7           | 52.7         | 74*                | 2   | 76-126/26         |
| 75-27-4    | Bromodichloromethane        | ND                  |            | 59.8  | 50.3        | 84                 | 59.7           | 51.3         | 86                 | 2   | 74-130/25         |
| 75-25-2    | Bromoform                   | ND                  |            | 59.8  | 46.9        | 78                 | 59.7           | 48.6         | 81                 | 4   | 76-127/26         |
| 78-93-3    | 2-Butanone (MEK)            | ND                  |            | 299   | 263         | 88                 | 298            | 267          | 89                 | 2   | 75-137/25         |
| 75-15-0    | Carbon Disulfide            | 0.89                | J          | 59.8  | 54.2        | 89                 | 59.7           | 54.4         | 90                 | 0   | 72-122/29         |
| 56-23-5    | Carbon Tetrachloride        | ND                  |            | 59.8  | 57.4        | 96                 | 59.7           | 60.5         | 101                | 5   | 78-133/29         |
| 108-90-7   | Chlorobenzene               | ND                  |            | 59.8  | 53.5        | 89                 | 59.7           | 54.3         | 91                 | 1   | 81-129/29         |
| 75-00-3    | Chloroethane                | ND                  |            | 59.8  | 67.4        | 113                | 59.7           | 65.5         | 110                | 3   | 68-133/29         |
| 67-66-3    | Chloroform                  | ND                  |            | 59.8  | 52.7        | 88                 | 59.7           | 52.8         | 88                 | 0   | 72-123/26         |
| 110-82-7   | Cyclohexane                 | 4.0                 |            | 59.8  | 56.1        | 87                 | 59.7           | 57.7         | 90                 | 3   | 73-126/32         |
| 124-48-1   | Dibromochloromethane        | ND                  |            | 59.8  | 48.3        | 81                 | 59.7           | 49.9         | 84                 | 3   | 76-127/27         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                  |            | 59.8  | 50.6        | 85                 | 59.7           | 53.5         | 90                 | 6   | 70-137/29         |
| 106-93-4   | 1,2-Dibromoethane           | ND                  |            | 59.8  | 49.4        | 83                 | 59.7           | 49.7         | 83                 | 1   | 77-126/26         |
| 75-71-8    | Dichlorodifluoromethane     | ND                  |            | 59.8  | 55.1        | 92                 | 59.7           | 54.0         | 90                 | 2   | 68-168/29         |
| 95-50-1    | 1,2-Dichlorobenzene         | 2.1                 | J          | 59.8  | 48.9        | 78*                | 59.7           | 49.8         | 80                 | 2   | 80-129/32         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                  |            | 59.8  | 51.4        | 86                 | 59.7           | 52.8         | 88                 | 3   | 81-129/33         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                  |            | 59.8  | 50.1        | 84                 | 59.7           | 50.9         | 85                 | 2   | 76-130/32         |
| 75-34-3    | 1,1-Dichloroethane          | ND                  |            | 59.8  | 55.9        | 93                 | 59.7           | 56.1         | 94                 | 0   | 73-125/27         |
| 107-06-2   | 1,2-Dichloroethane          | ND                  |            | 59.8  | 47.1        | 79                 | 59.7           | 46.7         | 78                 | 1   | 74-128/23         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                  |            | 59.8  | 62.4        | 104                | 59.7           | 62.5         | 105                | 0   | 81-136/28         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                  |            | 59.8  | 50.5        | 84                 | 59.7           | 51.9         | 87                 | 3   | 74-126/26         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                  |            | 59.8  | 57.0        | 95                 | 59.7           | 57.2         | 96                 | 0   | 70-127/27         |
| 78-87-5    | 1,2-Dichloropropane         | ND                  |            | 59.8  | 48.3        | 81                 | 59.7           | 48.5         | 81                 | 0   | 74-125/25         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                  |            | 59.8  | 44.4        | 74*                | 59.7           | 45.4         | 76*                | 2   | 80-123/26         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                  |            | 59.8  | 47.8        | 80                 | 59.7           | 48.0         | 80                 | 0   | 75-131/28         |
| 100-41-4   | Ethylbenzene                | 8.9                 |            | 59.8  | 58.8        | 83                 | 59.7           | 59.3         | 84                 | 1   | 77-123/31         |
| 76-13-1    | Freon 113                   | ND                  |            | 59.8  | 55.6        | 93                 | 59.7           | 55.7         | 93                 | 0   | 71-129/30         |
| 591-78-6   | 2-Hexanone                  | ND                  |            | 299   | 298         | 100                | 298            | 304          | 102                | 2   | 72-133/26         |
| 98-82-8    | Isopropylbenzene            | 134                 |            | 59.8  | 60.0        | -124* <sup>a</sup> | 59.7           | 62.9         | -119* <sup>a</sup> | 5   | 80-136/32         |
| 79-20-9    | Methyl Acetate              | ND                  |            | 299   | 257         | 86                 | 298            | 264          | 88                 | 3   | 67-137/30         |
| 74-83-9    | Methyl Bromide              | ND                  |            | 59.8  | 49.5        | 83                 | 59.7           | 54.4         | 91                 | 9   | 65-139/31         |
| 74-87-3    | Methyl Chloride             | ND                  |            | 59.8  | 56.6        | 95                 | 59.7           | 55.5         | 93                 | 2   | 71-144/27         |
| 108-87-2   | Methylcyclohexane           | 90.8                |            | 59.8  | 61.7        | -49* <sup>a</sup>  | 59.7           | 64.2         | -45* <sup>a</sup>  | 4   | 75-128/31         |
| 75-09-2    | Methylene Chloride          | ND                  |            | 59.8  | 52.2        | 87                 | 59.7           | 51.5         | 86                 | 1   | 74-137/28         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                  |            | 299   | 283         | 95                 | 298            | 289          | 97                 | 2   | 76-132/26         |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80928-18MS  | 3C12237.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18MSD | 3C12238.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |
| FA80928-18    | 3C12224.D | 1  | 11/27/20 | SP | n/a       | n/a        | V3C513           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-1, FA81038-2, FA81038-3, FA81038-4

| CAS No.   | Compound                  | FA80928-18<br>ug/kg | Spike<br>Q | ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|---------------------|------------|-------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                  |            | 59.8  | 44.3        | 74*     | 59.7           | 44.6         | 75*      | 1   | 77-120/24         |
| 100-42-5  | Styrene                   | ND                  |            | 59.8  | 52.5        | 88      | 59.7           | 53.9         | 90       | 3   | 78-125/30         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                  |            | 59.8  | 52.4        | 88      | 59.7           | 54.3         | 91       | 4   | 71-126/30         |
| 127-18-4  | Tetrachloroethylene       | ND                  |            | 59.8  | 61.2        | 102     | 59.7           | 63.7         | 107      | 4   | 79-130/31         |
| 108-88-3  | Toluene                   | ND                  |            | 59.8  | 55.0        | 92      | 59.7           | 56.1         | 94       | 2   | 76-124/30         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                  |            | 59.8  | 49.4        | 83      | 59.7           | 49.2         | 82       | 0   | 78-130/34         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                  |            | 59.8  | 60.4        | 101     | 59.7           | 60.9         | 102      | 1   | 70-129/27         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                  |            | 59.8  | 52.6        | 88      | 59.7           | 55.2         | 93       | 5   | 74-124/28         |
| 79-01-6   | Trichloroethylene         | ND                  |            | 59.8  | 54.1        | 90      | 59.7           | 55.6         | 93       | 3   | 75-128/27         |
| 75-69-4   | Trichlorofluoromethane    | ND                  |            | 59.8  | 72.4        | 121     | 59.7           | 71.3         | 119      | 2   | 73-145/31         |
| 75-01-4   | Vinyl Chloride            | ND                  |            | 59.8  | 59.8        | 100     | 59.7           | 61.1         | 102      | 2   | 76-141/27         |
| 1330-20-7 | Xylene (total)            | 4.3                 | J          | 179   | 179         | 97      | 179            | 178          | 97       | 1   | 80-129/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80928-18 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 100% | 97%        | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 115% | 107%       | 72-135% |
| 2037-26-5  | Toluene-D8            | 103% | 103% | 107%       | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%  | 98%  | 92%        | 71-133% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81038  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA81057-4MS  | 3C12295.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C517           |
| FA81057-4MSD | 3C12296.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C517           |
| FA81057-4    | 3C12290.D | 1  | 12/01/20 | SP | n/a       | n/a        | V3C517           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81038-4

| CAS No.   | Compound       | FA81057-4<br>ug/kg | Spike<br>Q<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------|--------------------|---------------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 100-41-4  | Ethylbenzene   | ND                 | 59.3                | 54.3        | 92      | 58.7           | 61.8         | 105      | 13  | 77-123/31         |
| 108-88-3  | Toluene        | ND                 | 59.3                | 51.4        | 87      | 58.7           | 57.6         | 98       | 11  | 76-124/30         |
| 1330-20-7 | Xylene (total) | ND                 | 178                 | 163         | 92      | 176            | 186          | 106      | 13  | 80-129/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81057-4 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 99%  | 103%      | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | 102% | 104%      | 72-135% |
| 2037-26-5  | Toluene-D8            | 97%  | 98%  | 98%       | 75-126% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%  | 96%  | 99%       | 71-133% |

\* = Outside of Control Limits.

5.3.2  
5

# APPENDIX G

Analytical Laboratory Reports for Groundwater for Area #2



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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

ARCADIS Geraghty & Miller

Brenntag; Charleston, SC

SC000204.0011.00001

SGS Job Number: FA80926

Sampling Date: 11/16/20

Report to:

ARCADIS Geraghty & Miller  
1450 Greene St Suite 220  
Augusta, GA 30901  
charles.lawson@arcadis.com; Edward.Hirshenson@arcadis.com  
  
ATTN: Charles Lawson

Total number of pages in report: **34**



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

A handwritten signature in black ink that reads "Norm Farmer".

Norm Farmer  
Technical Director

Client Service contact: Evita Martinez 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA80926

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

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

|           |          |       |    |          |    |              |              |
|-----------|----------|-------|----|----------|----|--------------|--------------|
| FA80926-1 | 11/16/20 | 14:59 | CL | 11/18/20 | AQ | Ground Water | A2-1 (7-9)   |
| FA80926-2 | 11/16/20 | 15:07 | CL | 11/18/20 | AQ | Ground Water | A2-1 (17-20) |
| FA80926-3 | 11/16/20 | 15:39 | CL | 11/18/20 | AQ | Ground Water | A2-2 (7-9)   |
| FA80926-4 | 11/16/20 | 15:46 | CL | 11/18/20 | AQ | Ground Water | A2-2 (17-20) |
| FA80926-5 | 11/16/20 | 16:14 | CL | 11/18/20 | AQ | Ground Water | A2-4 (7-9)   |
| FA80926-6 | 11/16/20 | 16:20 | CL | 11/18/20 | AQ | Ground Water | A2-4 (17-20) |

## Summary of Hits

**Job Number:** FA80926  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/16/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA80926-1      A2-1 (7-9)**

|                          |       |     |     |      |             |
|--------------------------|-------|-----|-----|------|-------------|
| Benzene                  | 14.9  | 5.0 | 1.6 | ug/l | SW846 8260D |
| Chlorobenzene            | 45.2  | 5.0 | 1.0 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene      | 3.6 J | 5.0 | 1.6 | ug/l | SW846 8260D |
| 1,4-Dichlorobenzene      | 4.4 J | 5.0 | 1.3 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene | 20.1  | 5.0 | 1.4 | ug/l | SW846 8260D |
| Ethylbenzene             | 230   | 5.0 | 1.8 | ug/l | SW846 8260D |
| Isopropylbenzene         | 8.0   | 5.0 | 1.1 | ug/l | SW846 8260D |
| Toluene                  | 25.7  | 5.0 | 1.5 | ug/l | SW846 8260D |
| Vinyl Chloride           | 2.7 J | 5.0 | 2.0 | ug/l | SW846 8260D |
| Xylene (total)           | 827   | 15  | 3.6 | ug/l | SW846 8260D |

**FA80926-2      A2-1 (17-20)**

|                            |        |     |      |      |             |
|----------------------------|--------|-----|------|------|-------------|
| Benzene                    | 26.8   | 1.0 | 0.31 | ug/l | SW846 8260D |
| Chlorobenzene              | 6.3    | 1.0 | 0.20 | ug/l | SW846 8260D |
| Cyclohexane                | 1.1    | 1.0 | 0.39 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene        | 0.74 J | 1.0 | 0.32 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene   | 0.67 J | 1.0 | 0.28 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethylene | 0.39 J | 1.0 | 0.22 | ug/l | SW846 8260D |
| Ethylbenzene               | 0.89 J | 1.0 | 0.36 | ug/l | SW846 8260D |
| Isopropylbenzene           | 1.5    | 1.0 | 0.22 | ug/l | SW846 8260D |
| Toluene                    | 0.45 J | 1.0 | 0.30 | ug/l | SW846 8260D |
| Vinyl Chloride             | 0.59 J | 1.0 | 0.41 | ug/l | SW846 8260D |
| Xylene (total)             | 2.7 J  | 3.0 | 0.72 | ug/l | SW846 8260D |

**FA80926-3      A2-2 (7-9)**

|                     |        |     |     |      |             |
|---------------------|--------|-----|-----|------|-------------|
| Benzene             | 96.2 J | 200 | 62  | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene | 615    | 200 | 65  | ug/l | SW846 8260D |
| 1,4-Dichlorobenzene | 139 J  | 200 | 51  | ug/l | SW846 8260D |
| Ethylbenzene        | 9960   | 200 | 71  | ug/l | SW846 8260D |
| Isopropylbenzene    | 198 J  | 200 | 44  | ug/l | SW846 8260D |
| Toluene             | 4830   | 200 | 60  | ug/l | SW846 8260D |
| Xylene (total)      | 52800  | 750 | 180 | ug/l | SW846 8260D |

**FA80926-4      A2-2 (17-20)**

|                          |       |     |      |      |             |
|--------------------------|-------|-----|------|------|-------------|
| Benzene                  | 16.7  | 2.5 | 0.78 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene      | 5.3   | 2.5 | 0.81 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene | 1.8 J | 2.5 | 0.69 | ug/l | SW846 8260D |
| Ethylbenzene             | 115   | 2.5 | 0.89 | ug/l | SW846 8260D |
| Isopropylbenzene         | 1.3 J | 2.5 | 0.55 | ug/l | SW846 8260D |
| Toluene                  | 76.6  | 2.5 | 0.75 | ug/l | SW846 8260D |



## Summary of Hits

**Job Number:** FA80926  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/16/20

| Lab Sample ID                         | Client Sample ID | Result/<br>Qual     | RL   | MDL | Units | Method      |
|---------------------------------------|------------------|---------------------|------|-----|-------|-------------|
| Xylene (total)                        |                  | 581                 | 30   | 7.2 | ug/l  | SW846 8260D |
| <b>FA80926-5</b>                      |                  | <b>A2-4 (7-9)</b>   |      |     |       |             |
| Benzene <sup>a</sup>                  |                  | 558                 | 500  | 160 | ug/l  | SW846 8260D |
| 1,2-Dichlorobenzene <sup>a</sup>      |                  | 765                 | 500  | 160 | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>a</sup> |                  | 2140                | 500  | 140 | ug/l  | SW846 8260D |
| Ethylbenzene <sup>a</sup>             |                  | 11200               | 500  | 180 | ug/l  | SW846 8260D |
| Toluene <sup>a</sup>                  |                  | 84800 E             | 500  | 150 | ug/l  | SW846 8260D |
| Trichloroethylene <sup>a</sup>        |                  | 190 J               | 500  | 170 | ug/l  | SW846 8260D |
| Xylene (total) <sup>a</sup>           |                  | 117000              | 1500 | 360 | ug/l  | SW846 8260D |
| <b>FA80926-6</b>                      |                  | <b>A2-4 (17-20)</b> |      |     |       |             |
| Benzene                               |                  | 20.6 J              | 50   | 16  | ug/l  | SW846 8260D |
| 1,2-Dichlorobenzene                   |                  | 48.0 J              | 50   | 16  | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene              |                  | 80.2                | 50   | 14  | ug/l  | SW846 8260D |
| Ethylbenzene                          |                  | 679                 | 50   | 18  | ug/l  | SW846 8260D |
| Toluene                               |                  | 3540                | 50   | 15  | ug/l  | SW846 8260D |
| Trichloroethylene                     |                  | 17.2 J              | 50   | 17  | ug/l  | SW846 8260D |
| Xylene (total)                        |                  | 6800                | 150  | 36  | ug/l  | SW846 8260D |

(a) Results from different vials are not consistent; higher results were reported.

Sample Results

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Report of Analysis

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# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (7-9)      |  |                                |
| <b>Lab Sample ID:</b> FA80926-1          |  | <b>Date Sampled:</b> 11/16/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P76260.D | 5  | 11/26/20 14:11 | SO | n/a       | n/a        | VP3054           |
| Run #2 |          |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL | Units | Q |
|------------|--------------------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                              | ND     | 130 | 50  | ug/l  |   |
| 71-43-2    | Benzene                              | 14.9   | 5.0 | 1.6 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 5.0 | 1.2 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 5.0 | 2.0 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 25  | 10  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 10  | 2.7 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 5.0 | 1.8 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | 45.2   | 5.0 | 1.0 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 10  | 3.3 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 5.0 | 1.5 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0 | 2.0 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 5.0 | 1.4 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 25  | 5.2 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 10  | 1.4 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 10  | 2.5 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 3.6    | 5.0 | 1.6 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 5.0 | 1.1 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 4.4    | 5.0 | 1.3 | ug/l  | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 5.0 | 1.7 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 5.0 | 1.6 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 5.0 | 1.6 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 20.1   | 5.0 | 1.4 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 5.0 | 1.1 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 5.0 | 2.1 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 5.0 | 1.5 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | 230    | 5.0 | 1.8 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0 | 2.4 | ug/l  |   |
| 591-78-6   | 2-Hexanone <sup>a</sup>              | ND     | 50  | 10  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | 8.0    | 5.0 | 1.1 | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND     | 100 | 25  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup>          | ND     | 25  | 10  | ug/l  |   |

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (7-9)      |  | <b>Date Sampled:</b> 11/16/20  |
| <b>Lab Sample ID:</b> FA80926-1          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                                 | Result | RL  | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup>             | ND     | 10  | 2.5 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                        | ND     | 5.0 | 2.2 | ug/l  |   |
| 75-09-2   | Methylene Chloride                       | ND     | 25  | 10  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB <sup>a</sup> ) | ND     | 25  | 5.0 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                  | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-42-5  | Styrene                                  | ND     | 5.0 | 1.1 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane                | ND     | 5.0 | 1.5 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                      | ND     | 5.0 | 1.1 | ug/l  |   |
| 108-88-3  | Toluene                                  | 25.7   | 5.0 | 1.5 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene                   | ND     | 10  | 2.5 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                    | ND     | 5.0 | 1.2 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                    | ND     | 5.0 | 2.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene                        | ND     | 5.0 | 1.7 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane                   | ND     | 10  | 2.5 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                           | 2.7    | 5.0 | 2.0 | ug/l  | J |
| 1330-20-7 | Xylene (total)                           | 827    | 15  | 3.6 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (17-20)    |  | <b>Date Sampled:</b> 11/16/20  |
| <b>Lab Sample ID:</b> FA80926-2          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P76261.D | 1  | 11/26/20 14:37 | SO | n/a       | n/a        | VP3054           |
| Run #2 |          |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                              | 26.8   | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | 6.3    | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | 1.1    | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 0.74   | 1.0 | 0.32 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 0.67   | 1.0 | 0.28 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene           | 0.39   | 1.0 | 0.22 | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | 0.89   | 1.0 | 0.36 | ug/l  | J |
| 76-13-1    | Freon 113                            | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone <sup>a</sup>              | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | 1.5    | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup>          | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-1 (17-20)    |                                |
| <b>Lab Sample ID:</b> FA80926-2          | <b>Date Sampled:</b> 11/16/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                                 | Result | RL  | MDL  | Units | Q |
|-----------|--|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup>             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                        | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                       | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB <sup>a</sup> ) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                  | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                                  | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane                | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                      | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                                  | 0.45   | 1.0 | 0.30 | ug/l  | J |
| 120-82-1  | 1,2,4-Trichlorobenzene                   | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                    | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                    | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                        | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane                   | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                           | 0.59   | 1.0 | 0.41 | ug/l  | J |
| 1330-20-7 | Xylene (total)                           | 2.7    | 3.0 | 0.72 | ug/l  | J |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-2 (7-9)      |  | <b>Date Sampled:</b> 11/16/20  |
| <b>Lab Sample ID:</b> FA80926-3          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | P76262.D  | 200 | 11/26/20 15:02 | SO | n/a       | n/a        | VP3054           |
| Run #2 | 5E25686.D | 250 | 11/27/20 14:27 | SO | n/a       | n/a        | V5E1185          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 5000 | 2000 | ug/l  |   |
| 71-43-2    | Benzene                              | 96.2   | 200  | 62   | ug/l  | J |
| 75-27-4    | Bromodichloromethane                 | ND     | 200  | 48   | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 200  | 81   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 1000 | 400  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 400  | 110  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 200  | 71   | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 200  | 40   | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 400  | 130  | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 200  | 60   | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 200  | 78   | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 200  | 55   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 1000 | 210  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 400  | 55   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 400  | 100  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 615    | 200  | 65   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 200  | 43   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | 139    | 200  | 51   | ug/l  | J |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 200  | 68   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 200  | 62   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 200  | 64   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 200  | 55   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 200  | 44   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 200  | 85   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 200  | 58   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 200  | 43   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | 9960   | 200  | 71   | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 200  | 96   | ug/l  |   |
| 591-78-6   | 2-Hexanone <sup>a</sup>              | ND     | 2000 | 400  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | 198    | 200  | 44   | ug/l  | J |
| 79-20-9    | Methyl Acetate                       | ND     | 4000 | 1000 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup>          | ND     | 1000 | 400  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-2 (7-9)               | <b>Date Sampled:</b>   | 11/16/20 |
| <b>Lab Sample ID:</b>    | FA80926-3                | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                                | Result             | RL   | MDL | Units | Q |
|-----------|---|--------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup>            | ND                 | 400  | 100 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                       | ND                 | 200  | 87  | ug/l  |   |
| 75-09-2   | Methylene Chloride                      | ND                 | 1000 | 400 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB) <sup>a</sup> | ND                 | 1000 | 200 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                 | ND                 | 200  | 46  | ug/l  |   |
| 100-42-5  | Styrene                                 | ND                 | 200  | 44  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane               | ND                 | 200  | 60  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                     | ND                 | 200  | 43  | ug/l  |   |
| 108-88-3  | Toluene                                 | 4830               | 200  | 60  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene                  | ND                 | 400  | 100 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                   | ND                 | 200  | 50  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                   | ND                 | 200  | 93  | ug/l  |   |
| 79-01-6   | Trichloroethylene                       | ND                 | 200  | 69  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane                  | ND                 | 400  | 100 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                          | ND                 | 200  | 82  | ug/l  |   |
| 1330-20-7 | Xylene (total)                          | 52800 <sup>b</sup> | 750  | 180 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   | 99%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   | 102%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%    | 97%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   | 97%    | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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



# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-2 (17-20)    |                                |
| <b>Lab Sample ID:</b> FA80926-4          | <b>Date Sampled:</b> 11/16/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #  | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25687.D | 2.5 | 11/27/20 14:50 | SO | n/a       | n/a        | V5E1185          |
| Run #2 | P76263.D  | 10  | 11/26/20 15:27 | SO | n/a       | n/a        | VP3054           |

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

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 63  | 25   | ug/l  |   |
| 71-43-2    | Benzene                     | 16.7   | 2.5 | 0.78 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.5 | 0.61 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.5 | 1.0  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 13  | 5.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.3  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.5 | 0.89 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 2.5 | 0.50 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 1.7  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.5 | 0.75 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.5 | 0.98 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.5 | 0.69 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 13  | 2.6  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 0.69 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 1.3  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 5.3    | 2.5 | 0.81 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.5 | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.5 | 0.64 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.5 | 0.85 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.5 | 0.78 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.5 | 0.81 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.8    | 2.5 | 0.69 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.5 | 0.55 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.5 | 1.1  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.5 | 0.73 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.5 | 0.54 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 115    | 2.5 | 0.89 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.5 | 1.2  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 5.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 1.3    | 2.5 | 0.55 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 50  | 13   | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 13  | 5.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-2 (17-20)             | <b>Date Sampled:</b>   | 11/16/20 |
| <b>Lab Sample ID:</b>    | FA80926-4                | <b>Date Received:</b>  | 11/18/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result           | RL  | MDL  | Units | Q |
|-----------|-----------------------------|------------------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND               | 5.0 | 1.3  | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND               | 2.5 | 1.1  | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND               | 13  | 5.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND               | 13  | 2.5  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND               | 2.5 | 0.57 | ug/l  |   |
| 100-42-5  | Styrene                     | ND               | 2.5 | 0.56 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND               | 2.5 | 0.75 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND               | 2.5 | 0.54 | ug/l  |   |
| 108-88-3  | Toluene                     | 76.6             | 2.5 | 0.75 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND               | 5.0 | 1.3  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND               | 2.5 | 0.62 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND               | 2.5 | 1.2  | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND               | 2.5 | 0.86 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND               | 5.0 | 1.3  | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND               | 2.5 | 1.0  | ug/l  |   |
| 1330-20-7 | Xylene (total)              | 581 <sup>a</sup> | 30  | 7.2  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 103%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   | 106%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 95%    | 101%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    | 105%   | 83-118% |

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-4 (7-9)      |  | <b>Date Sampled:</b> 11/16/20  |
| <b>Lab Sample ID:</b> FA80926-5          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID  | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | P76264.D | 500 | 11/26/20 15:52 | SO | n/a       | n/a        | VP3054           |
| Run #2              |          |     |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL    | MDL  | Units | Q |
|------------|--------------------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                              | 558    | 500   | 160  | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 2500  | 1000 | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | 765    | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 500   | 170  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 500   | 160  | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 2140   | 500   | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 500   | 110  | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | 11200  | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone <sup>b</sup>              | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 500   | 110  | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup>          | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-4 (7-9)      |  | <b>Date Sampled:</b> 11/16/20  |
| <b>Lab Sample ID:</b> FA80926-5          |  | <b>Date Received:</b> 11/18/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                                | Result | RL   | MDL  | Units | Q |
|-----------|---|--------|------|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>b</sup>            | ND     | 1000 | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                       | ND     | 500  | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride                      | ND     | 2500 | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB) <sup>b</sup> | ND     | 2500 | 500  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                 | ND     | 500  | 110  | ug/l  |   |
| 100-42-5  | Styrene                                 | ND     | 500  | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane               | ND     | 500  | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                     | ND     | 500  | 110  | ug/l  |   |
| 108-88-3  | Toluene                                 | 84800  | 500  | 150  | ug/l  | E |
| 120-82-1  | 1,2,4-Trichlorobenzene                  | ND     | 1000 | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                   | ND     | 500  | 120  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                   | ND     | 500  | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene                       | 190    | 500  | 170  | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane                  | ND     | 1000 | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                          | ND     | 500  | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)                          | 117000 | 1500 | 360  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   |        | 83-118% |

(a) Results from different vials are not consistent; higher results were reported.

(b) Associated CCV outside of control limits high, sample was ND.

---

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



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-4 (17-20)    |                                |
| <b>Lab Sample ID:</b> FA80926-6          | <b>Date Sampled:</b> 11/16/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/18/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                                 | Result | RL  | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup>             | ND     | 100 | 25  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                        | ND     | 50  | 22  | ug/l  |   |
| 75-09-2   | Methylene Chloride                       | ND     | 250 | 100 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB <sup>a</sup> ) | ND     | 250 | 50  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                  | ND     | 50  | 11  | ug/l  |   |
| 100-42-5  | Styrene                                  | ND     | 50  | 11  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane                | ND     | 50  | 15  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                      | ND     | 50  | 11  | ug/l  |   |
| 108-88-3  | Toluene                                  | 3540   | 50  | 15  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene                   | ND     | 100 | 25  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                    | ND     | 50  | 12  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                    | ND     | 50  | 23  | ug/l  |   |
| 79-01-6   | Trichloroethylene                        | 17.2   | 50  | 17  | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane                   | ND     | 100 | 25  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                           | ND     | 50  | 20  | ug/l  |   |
| 1330-20-7 | Xylene (total)                           | 6800   | 150 | 36  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

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

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

|                  |  |                                   |                           |                      |   |                              |                                    |  |  |  |
|------------------|--|-----------------------------------|---------------------------|----------------------|---|------------------------------|------------------------------------|--|--|--|
| Send Results to: | Contact & Company Name:<br><b>CHARLES LAWSON<br/>ARCADIS</b> | Telephone:<br><b>706-929-4421</b> | Preservative:<br><b>D</b> |                      |   |                              |                                    |  |  | <b>Keys</b><br>Preservation Key:<br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: _____<br>G. Other: _____<br>H. Other: _____<br>Matrix Key:<br>SO - Soil<br>W - Water<br>T - Tissue<br>SE - Sediment<br>SL - Sludge<br>A - Air<br>NL - NAP/LOil<br>SW - Sample W/ps<br>Other: _____ |
|                  | Address:<br><b>1450 Greene St Ste 220</b>                    | City:<br><b>Augusta GA</b>        | State:<br><b>GA</b>       | Zip:<br><b>30901</b> | Project #:<br><b>Charles Lawson Arcadis</b> | # of Containers:<br><b>3</b> | Container Information:<br><b>1</b> | <b>PARAMETER ANALYSIS &amp; METHOD</b> |  |  |

|   |   |  |
|---|---|--|
| Project Name/Location (City, State):<br><b>Brents Charleston SC</b> | Sampler's Printed Name:<br><b>CLAWSON</b> | Sampler's Signature:<br><i>CB Lawson</i> |
|---|---|--|

| Sample ID       | Collection |       | Type (✓) |      | Matrix | REMARKS  |
|-----------------|------------|-------|----------|------|--------|--|
|                 | Date       | Time  | Comp     | Grab |        |  |
| 1 A#2-1 (7-9)   | 11/16/20   | 14:59 | X        | W    | 3      | 8300 VOC<br>40 ml BIASM<br>Del 492<br><br>DO<br>LAB VERIFICATION MKS |
| 2 A#2-1 (17-20) | "          | 15:07 | X        | W    | 3      |  |
| 3 A#2-2 (7-9)   | "          | 15:39 | X        | W    | 3      |  |
| 4 A#2-2 (17-19) | "          | 15:46 | X        | W    | 3      |  |
| 5 A#2-4 (7-9)   | "          | 16:14 | X        | W    | 3      |  |
| 6 A#2-4 (17-20) | "          | 16:30 | X        | W    | 3      |  |

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions(✓): \_\_\_\_\_

| Laboratory Information and Receipt |  | Relinquished By                        |                                     | Received By                   |                            | Relinquished By               |                            | Laboratory Received By                |                                    |
|------------------------------------|--|--|-------------------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|---------------------------------------|------------------------------------|
| Lab Name:<br><b>SGS</b>            | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Lawson</b> | Signature:<br><i>CB Lawson</i>      | Printed Name:<br><b>Fedex</b> | Signature:<br><i>Fedex</i> | Printed Name:<br><b>Fedex</b> | Signature:<br><i>Fedex</i> | Printed Name:<br><b>Bruno Giraldo</b> | Signature:<br><i>Bruno Giraldo</i> |
| Specify Turnaround Requirements:   | Sample Receipt:  | Firm:<br><b>Arcadis</b>                | Date/Time:<br><b>11/17/20 17:30</b> | Firm/Courier:                 | Date/Time:                 | Firm/Courier:                 | Date/Time:                 | Firm:<br><b>SGS</b>                   | Date/Time:<br><b>11/18/20 930</b>  |
| Shipping Tracking #:               | Condition/Cooler Temp: <b>2.8</b>  |  |                                     |                               |                            |                               |                            |                                       |                                    |

20730828 Co/CAR Form 08.27.2016      Distribution:      WHITE - Laboratory returns with results      YELLOW - Lab copy      PINK - Retained by Arcadis



## SGS Sample Receipt Summary

Job Number: FA80926

Client: ARCADIS

Project: BRENNTAS CHARLESTON S.C.

Date / Time Received: 11/18/2020 9:30:00 AM

Delivery Method: FEDEX

Airbill #'s: 923153807384

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

**Cooler Information**

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |                          |

**Trip Blank Information**

Y or N N/A

- |                                |                          |                                     |                                     |
|--------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                                | <u>W</u> or <u>S</u>     | <u>N/A</u>                          |                                     |
| 3. Type Of TB Received         | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Sample Information**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments SAMPLE A#2-4 (7-9) RECEIVED WITH HEADSPACE

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 11/18/2020 9:30:00 A

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA80926: Chain of Custody

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4.1  
4

## MS Volatiles

### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3054-MB | P76252.D | 1  | 11/26/20 | SO | n/a       | n/a        | VP3054           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-1, FA80926-2, FA80926-3, FA80926-4, FA80926-5, FA80926-6

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3054-MB | P76252.D | 1  | 11/26/20 | SO | n/a       | n/a        | VP3054           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-1, FA80926-2, FA80926-3, FA80926-4, FA80926-5, FA80926-6

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   | 83-118% |

## Method Blank Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1185-MB | 5E25676.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-3, FA80926-4

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1185-MB | 5E25676.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-3, FA80926-4

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

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

# Blank Spike Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3054-BS | P76249.D | 1  | 11/26/20 | SO | n/a       | n/a        | VP3054           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-1, FA80926-2, FA80926-3, FA80926-4, FA80926-5, FA80926-6

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 151      | 121   | 50-147 |
| 71-43-2    | Benzene                     | 25         | 23.6     | 94    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 23.7     | 95    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 26.0     | 104   | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 154      | 123   | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 21.9     | 88    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 24.6     | 98    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 22.0     | 88    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 35.2     | 141   | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 23.5     | 94    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 23.7     | 95    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 25.2     | 101   | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 28.3     | 113   | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 26.4     | 106   | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 35.2     | 141   | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 22.6     | 90    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 22.9     | 92    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 20.9     | 84    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 24.8     | 99    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 23.4     | 94    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 26.3     | 105   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 25.6     | 102   | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 25.2     | 101   | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 23.7     | 95    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 22.2     | 89    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 24.6     | 98    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 22.2     | 89    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 19.0     | 76    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 146      | 117   | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 23.2     | 93    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 149      | 119   | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 33.7     | 135   | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 35.8     | 143   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 25.5     | 102   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 20.9     | 84    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 152      | 122   | 66-122 |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3054-BS | P76249.D | 1  | 11/26/20 | SO | n/a       | n/a        | VP3054           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-1, FA80926-2, FA80926-3, FA80926-4, FA80926-5, FA80926-6

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 26.1     | 104   | 72-117 |
| 100-42-5  | Styrene                   | 25         | 22.4     | 90    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 24.8     | 99    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 24.2     | 97    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 22.1     | 88    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 23.0     | 92    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 24.3     | 97    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 25.2     | 101   | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 23.0     | 92    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 33.8     | 135   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 35.6     | 142   | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 70.2     | 94    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 79-125% |
| 2037-26-5  | Toluene-D8            | 101% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100% | 83-118% |

\* = Outside of Control Limits.



# Blank Spike Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1185-BS | 5E25673.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-3, FA80926-4

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 83.9     | 67    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 23.0     | 92    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 22.7     | 91    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 21.3     | 85    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 112      | 90    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 22.3     | 89    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 24.7     | 99    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 22.1     | 88    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 30.7     | 123   | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 23.6     | 94    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 22.9     | 92    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 21.9     | 88    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 23.2     | 93    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 21.6     | 86    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 28.0     | 112   | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 21.6     | 86    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 22.0     | 88    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 21.9     | 88    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 24.3     | 97    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 22.5     | 90    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 25.2     | 101   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 22.9     | 92    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 23.9     | 96    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 21.9     | 88    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 20.8     | 83    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 22.0     | 88    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 22.1     | 88    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 21.6     | 86    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 120      | 96    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 21.7     | 87    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 122      | 98    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 33.9     | 136   | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 30.8     | 123   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 24.4     | 98    | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 21.4     | 86    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 120      | 96    | 66-122 |

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1185-BS | 5E25673.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-3, FA80926-4

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 20.8     | 83    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 21.2     | 85    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 22.8     | 91    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 23.9     | 96    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 21.2     | 85    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 26.6     | 106   | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 23.9     | 96    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 21.8     | 87    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 23.2     | 93    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 35.2     | 141   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 32.3     | 129   | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 65.1     | 87    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%  | 83-118% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID  | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|----------|-----|----------|----|-----------|------------|------------------|
| FA80926-3MS  | P76271.D | 200 | 11/26/20 | SO | n/a       | n/a        | VP3054           |
| FA80926-3MSD | P76272.D | 200 | 11/26/20 | SO | n/a       | n/a        | VP3054           |
| FA80926-3    | P76262.D | 200 | 11/26/20 | SO | n/a       | n/a        | VP3054           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-1, FA80926-2, FA80926-3, FA80926-4, FA80926-5, FA80926-6

| CAS No.    | Compound                    | FA80926-3<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD  | Limits<br>Rec/RPD |           |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|------|-------------------|-----------|
| 67-64-1    | Acetone                     | ND                |                    | 25000      | 27100   | 108           | 25000       | 24700    | 99   | 9                 | 50-147/21 |
| 71-43-2    | Benzene                     | 96.2              | J                  | 5000       | 5670    | 111           | 5000        | 5210     | 102  | 8                 | 81-122/14 |
| 75-27-4    | Bromodichloromethane        | ND                |                    | 5000       | 5510    | 110           | 5000        | 5030     | 101  | 9                 | 79-123/19 |
| 75-25-2    | Bromoform                   | ND                |                    | 5000       | 5020    | 100           | 5000        | 4720     | 94   | 6                 | 66-123/21 |
| 78-93-3    | 2-Butanone (MEK)            | ND                |                    | 25000      | 27600   | 110           | 25000       | 25700    | 103  | 7                 | 56-143/18 |
| 75-15-0    | Carbon Disulfide            | ND                |                    | 5000       | 5210    | 104           | 5000        | 4700     | 94   | 10                | 66-148/23 |
| 56-23-5    | Carbon Tetrachloride        | ND                |                    | 5000       | 5850    | 117           | 5000        | 5380     | 108  | 8                 | 76-136/23 |
| 108-90-7   | Chlorobenzene               | ND                |                    | 5000       | 5150    | 103           | 5000        | 4840     | 97   | 6                 | 82-124/14 |
| 75-00-3    | Chloroethane                | ND                |                    | 5000       | 8200    | 164*          | 5000        | 7780     | 156* | 5                 | 62-144/20 |
| 67-66-3    | Chloroform                  | ND                |                    | 5000       | 5600    | 112           | 5000        | 5150     | 103  | 8                 | 80-124/15 |
| 110-82-7   | Cyclohexane                 | ND                |                    | 5000       | 5330    | 107           | 5000        | 4940     | 99   | 8                 | 73-138/18 |
| 124-48-1   | Dibromochloromethane        | ND                |                    | 5000       | 4940    | 99            | 5000        | 4760     | 95   | 4                 | 78-122/19 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                |                    | 5000       | 4810    | 96            | 5000        | 4420     | 88   | 8                 | 64-123/18 |
| 106-93-4   | 1,2-Dibromoethane           | ND                |                    | 5000       | 5020    | 100           | 5000        | 4690     | 94   | 7                 | 75-120/13 |
| 75-71-8    | Dichlorodifluoromethane     | ND                |                    | 5000       | 7740    | 155           | 5000        | 7730     | 155  | 0                 | 42-167/19 |
| 95-50-1    | 1,2-Dichlorobenzene         | 615               |                    | 5000       | 5720    | 102           | 5000        | 5290     | 94   | 8                 | 82-124/14 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                |                    | 5000       | 5240    | 105           | 5000        | 4820     | 96   | 8                 | 84-125/14 |
| 106-46-7   | 1,4-Dichlorobenzene         | 139               | J                  | 5000       | 4930    | 96            | 5000        | 4510     | 87   | 9                 | 78-120/15 |
| 75-34-3    | 1,1-Dichloroethane          | ND                |                    | 5000       | 5870    | 117           | 5000        | 5430     | 109  | 8                 | 81-122/15 |
| 107-06-2   | 1,2-Dichloroethane          | ND                |                    | 5000       | 5170    | 103           | 5000        | 4820     | 96   | 7                 | 75-125/14 |
| 75-35-4    | 1,1-Dichloroethylene        | ND                |                    | 5000       | 5960    | 119           | 5000        | 5530     | 111  | 7                 | 78-137/18 |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                |                    | 5000       | 5770    | 115           | 5000        | 5260     | 105  | 9                 | 78-120/15 |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                |                    | 5000       | 5760    | 115           | 5000        | 5300     | 106  | 8                 | 76-127/17 |
| 78-87-5    | 1,2-Dichloropropane         | ND                |                    | 5000       | 5390    | 108           | 5000        | 5050     | 101  | 7                 | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                |                    | 5000       | 4850    | 97            | 5000        | 4520     | 90   | 7                 | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                |                    | 5000       | 4750    | 95            | 5000        | 4600     | 92   | 3                 | 80-120/22 |
| 100-41-4   | Ethylbenzene                | 9960              |                    | 5000       | 16300   | 127*          | 5000        | 15000    | 101  | 8                 | 81-121/14 |
| 76-13-1    | Freon 113                   | ND                |                    | 5000       | 4490    | 90            | 5000        | 4230     | 85   | 6                 | 72-134/20 |
| 591-78-6   | 2-Hexanone                  | ND                |                    | 25000      | 24700   | 99            | 25000       | 23300    | 93   | 6                 | 61-129/18 |
| 98-82-8    | Isopropylbenzene            | 198               | J                  | 5000       | 5460    | 105           | 5000        | 5120     | 98   | 6                 | 83-132/15 |
| 79-20-9    | Methyl Acetate              | ND                |                    | 25000      | 27000   | 108           | 25000       | 25400    | 102  | 6                 | 65-126/18 |
| 74-83-9    | Methyl Bromide              | ND                |                    | 5000       | 6550    | 131           | 5000        | 6640     | 133  | 1                 | 59-143/19 |
| 74-87-3    | Methyl Chloride             | ND                |                    | 5000       | 7100    | 142           | 5000        | 7300     | 146  | 3                 | 50-159/19 |
| 108-87-2   | Methylcyclohexane           | ND                |                    | 5000       | 5800    | 116           | 5000        | 5440     | 109  | 6                 | 76-129/17 |
| 75-09-2    | Methylene Chloride          | ND                |                    | 5000       | 4990    | 100           | 5000        | 4580     | 92   | 9                 | 69-135/16 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                |                    | 25000      | 26400   | 106           | 25000       | 24500    | 98   | 7                 | 66-122/16 |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID  | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|----------|-----|----------|----|-----------|------------|------------------|
| FA80926-3MS  | P76271.D | 200 | 11/26/20 | SO | n/a       | n/a        | VP3054           |
| FA80926-3MSD | P76272.D | 200 | 11/26/20 | SO | n/a       | n/a        | VP3054           |
| FA80926-3    | P76262.D | 200 | 11/26/20 | SO | n/a       | n/a        | VP3054           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-1, FA80926-2, FA80926-3, FA80926-4, FA80926-5, FA80926-6

| CAS No.   | Compound                  | FA80926-3<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                | 5000               | 5060       | 101     | 5000          | 4900        | 98       | 3   | 72-117/14         |
| 100-42-5  | Styrene                   | ND                | 5000               | 5550       | 111     | 5000          | 5110        | 102      | 8   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                | 5000               | 4950       | 99      | 5000          | 4440        | 89       | 11  | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                | 5000               | 6000       | 120     | 5000          | 5250        | 105      | 13  | 76-135/16         |
| 108-88-3  | Toluene                   | 4830              | 5000               | 10100      | 105     | 5000          | 9360        | 91       | 8   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                | 5000               | 4760       | 95      | 5000          | 4380        | 88       | 8   | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                | 5000               | 5780       | 116     | 5000          | 5250        | 105      | 10  | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                | 5000               | 5030       | 101     | 5000          | 4640        | 93       | 8   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | ND                | 5000               | 5390       | 108     | 5000          | 4980        | 100      | 8   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | ND                | 5000               | 8150       | 163*    | 5000          | 7530        | 151      | 8   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                | 5000               | 7900       | 158     | 5000          | 7680        | 154      | 3   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 55500             | E 15000            | 73600      | 121     | 15000         | 67800       | 82       | 8   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80926-3 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 102% | 102%      | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 105% | 104%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 95%  | 96%  | 97%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%  | 99%  | 104%      | 83-118% |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80962-3MS  | 5E25697.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |
| FA80962-3MSD | 5E25698.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |
| FA80962-3    | 5E25691.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-3, FA80926-4

| CAS No.    | Compound                    | FA80962-3<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | 25 U              | 125                | 88.4       | 71      | 125           | 132         | 106      | 40* | 50-147/21         |
| 71-43-2    | Benzene                     | 1.0 U             | 25                 | 24.9       | 100     | 25            | 25.1        | 100      | 1   | 81-122/14         |
| 75-27-4    | Bromodichloromethane        | 1.0 U             | 25                 | 22.5       | 90      | 25            | 23.0        | 92       | 2   | 79-123/19         |
| 75-25-2    | Bromoform                   | 1.0 U             | 25                 | 15.7       | 63*     | 25            | 16.2        | 65*      | 3   | 66-123/21         |
| 78-93-3    | 2-Butanone (MEK)            | 5.0 U             | 125                | 114        | 91      | 125           | 131         | 105      | 14  | 56-143/18         |
| 75-15-0    | Carbon Disulfide            | 2.0 U             | 25                 | 19.9       | 80      | 25            | 20.2        | 81       | 1   | 66-148/23         |
| 56-23-5    | Carbon Tetrachloride        | 1.0 U             | 25                 | 25.0       | 100     | 25            | 26.0        | 104      | 4   | 76-136/23         |
| 108-90-7   | Chlorobenzene               | 1.0 U             | 25                 | 23.4       | 94      | 25            | 23.5        | 94       | 0   | 82-124/14         |
| 75-00-3    | Chloroethane                | 2.0 U             | 25                 | 29.9       | 120     | 25            | 29.9        | 120      | 0   | 62-144/20         |
| 67-66-3    | Chloroform                  | 1.0 U             | 25                 | 25.2       | 101     | 25            | 25.5        | 102      | 1   | 80-124/15         |
| 110-82-7   | Cyclohexane                 | 1.0 U             | 25                 | 23.8       | 95      | 25            | 24.4        | 98       | 2   | 73-138/18         |
| 124-48-1   | Dibromochloromethane        | 1.0 U             | 25                 | 18.8       | 75*     | 25            | 19.6        | 78       | 4   | 78-122/19         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 5.0 U             | 25                 | 20.2       | 81      | 25            | 19.2        | 77       | 5   | 64-123/18         |
| 106-93-4   | 1,2-Dibromoethane           | 2.0 U             | 25                 | 21.7       | 87      | 25            | 22.2        | 89       | 2   | 75-120/13         |
| 75-71-8    | Dichlorodifluoromethane     | 2.0 U             | 25                 | 27.4       | 110     | 25            | 28.3        | 113      | 3   | 42-167/19         |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0 U             | 25                 | 21.9       | 88      | 25            | 22.1        | 88       | 1   | 82-124/14         |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0 U             | 25                 | 22.5       | 90      | 25            | 22.8        | 91       | 1   | 84-125/14         |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0 U             | 25                 | 22.9       | 92      | 25            | 23.2        | 93       | 1   | 78-120/15         |
| 75-34-3    | 1,1-Dichloroethane          | 1.0 U             | 25                 | 26.1       | 104     | 25            | 26.5        | 106      | 2   | 81-122/15         |
| 107-06-2   | 1,2-Dichloroethane          | 1.0 U             | 25                 | 23.8       | 95      | 25            | 24.0        | 96       | 1   | 75-125/14         |
| 75-35-4    | 1,1-Dichloroethylene        | 1.0 U             | 25                 | 25.9       | 104     | 25            | 27.1        | 108      | 5   | 78-137/18         |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.0 U             | 25                 | 24.1       | 96      | 25            | 24.7        | 99       | 2   | 78-120/15         |
| 156-60-5   | trans-1,2-Dichloroethylene  | 1.0 U             | 25                 | 25.4       | 102     | 25            | 25.9        | 104      | 2   | 76-127/17         |
| 78-87-5    | 1,2-Dichloropropane         | 1.0 U             | 25                 | 23.3       | 93      | 25            | 23.7        | 95       | 2   | 76-124/14         |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0 U             | 25                 | 19.4       | 78      | 25            | 19.7        | 79       | 2   | 75-118/23         |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1.0 U             | 25                 | 21.1       | 84      | 25            | 21.5        | 86       | 2   | 80-120/22         |
| 100-41-4   | Ethylbenzene                | 1.0 U             | 25                 | 23.1       | 92      | 25            | 23.1        | 92       | 0   | 81-121/14         |
| 76-13-1    | Freon 113                   | 1.0 U             | 25                 | 22.7       | 91      | 25            | 23.2        | 93       | 2   | 72-134/20         |
| 591-78-6   | 2-Hexanone                  | 10 U              | 125                | 122        | 98      | 125           | 126         | 101      | 3   | 61-129/18         |
| 98-82-8    | Isopropylbenzene            | 1.0 U             | 25                 | 22.0       | 88      | 25            | 22.1        | 88       | 0   | 83-132/15         |
| 79-20-9    | Methyl Acetate              | 20 U              | 125                | 123        | 98      | 125           | 132         | 106      | 7   | 65-126/18         |
| 74-83-9    | Methyl Bromide              | 5.0 U             | 25                 | 33.7       | 135     | 25            | 31.6        | 126      | 6   | 59-143/19         |
| 74-87-3    | Methyl Chloride             | 2.0 U             | 25                 | 31.1       | 124     | 25            | 31.9        | 128      | 3   | 50-159/19         |
| 108-87-2   | Methylcyclohexane           | 1.0 U             | 25                 | 25.1       | 100     | 25            | 25.9        | 104      | 3   | 76-129/17         |
| 75-09-2    | Methylene Chloride          | 5.0 U             | 25                 | 23.2       | 93      | 25            | 23.5        | 94       | 1   | 69-135/16         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 5.0 U             | 125                | 121        | 97      | 125           | 126         | 101      | 4   | 66-122/16         |

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA80926  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA80962-3MS  | 5E25697.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |
| FA80962-3MSD | 5E25698.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |
| FA80962-3    | 5E25691.D | 1  | 11/27/20 | SO | n/a       | n/a        | V5E1185          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA80926-3, FA80926-4

| CAS No.   | Compound                  | FA80962-3<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 1.0 U             | 25                 | 20.6       | 82      | 25            | 21.7        | 87       | 5   | 72-117/14         |
| 100-42-5  | Styrene                   | 1.0 U             | 25                 | 19.6       | 78      | 25            | 20.2        | 81       | 3   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 1.0 U             | 25                 | 23.4       | 94      | 25            | 23.7        | 95       | 1   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | 1.0 U             | 25                 | 24.2       | 97      | 25            | 24.6        | 98       | 2   | 76-135/16         |
| 108-88-3  | Toluene                   | 1.0 U             | 25                 | 22.2       | 89      | 25            | 22.4        | 90       | 1   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 2.0 U             | 25                 | 20.4       | 82      | 25            | 17.2        | 69*      | 17  | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | 1.0 U             | 25                 | 25.0       | 100     | 25            | 25.5        | 102      | 2   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | 1.0 U             | 25                 | 23.1       | 92      | 25            | 23.4        | 94       | 1   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | 1.0 U             | 25                 | 25.0       | 100     | 25            | 25.2        | 101      | 1   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | 2.0 U             | 25                 | 36.4       | 146     | 25            | 37.6        | 150      | 3   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | 1.0 U             | 25                 | 31.2       | 125     | 25            | 32.0        | 128      | 3   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 3.0 U             | 75                 | 66.3       | 88      | 75            | 67.3        | 90       | 1   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80962-3 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 101% | 100%      | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 103% | 103%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%  | 96%  | 100%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%  | 93%  | 97%       | 83-118% |

\* = Outside of Control Limits.

5.3.2  
5

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

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

ARCADIS Geraghty & Miller

Brenntag; Charleston, SC

SC000204.0011.00001

SGS Job Number: FA81043

Sampling Date: 11/19/20

Report to:

ARCADIS Geraghty & Miller  
1450 Greene St Suite 220  
Augusta, GA 30901  
charles.lawson@arcadis.com; Edward.Hirshenson@arcadis.com  
  
ATTN: Charles Lawson

Total number of pages in report: **104**



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

Norm Farmer  
Technical Director

Client Service contact: Evita Martinez 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.



December 11, 2020

Charles Lawson  
Arcadis Geraghty & Miller  
1450 Greene St  
Suite 220  
Augusta, Ga 30901

RE: SGS North America Inc. - Orlando job FA81043 Reissue

Dear Charles,

The final report for job number FA81043 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

Trichloroethene it is now reported for FA81043-21

SGS North America Inc. - Orlando apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America Inc. - Orlando



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## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA81043

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

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

|            |          |       |    |          |    |              |               |
|------------|----------|-------|----|----------|----|--------------|---------------|
| FA81043-1  | 11/19/20 | 13:12 | CL | 11/20/20 | AQ | Ground Water | A2-5 (7-10)   |
| FA81043-2  | 11/19/20 | 13:18 | CL | 11/20/20 | AQ | Ground Water | A2-5 (17-20)  |
| FA81043-3  | 11/19/20 | 13:30 | CL | 11/20/20 | AQ | Ground Water | A2-8 (7-10)   |
| FA81043-4  | 11/19/20 | 13:37 | CL | 11/20/20 | AQ | Ground Water | A2-8 (17-20)  |
| FA81043-5  | 11/19/20 | 13:50 | CL | 11/20/20 | AQ | Ground Water | A2-20 (7-10)  |
| FA81043-6  | 11/19/20 | 13:49 | CL | 11/20/20 | AQ | Ground Water | A2-20 (17-20) |
| FA81043-7  | 11/19/20 | 14:14 | CL | 11/20/20 | AQ | Ground Water | A2-9 (7-10)   |
| FA81043-8  | 11/19/20 | 14:21 | CL | 11/20/20 | AQ | Ground Water | A2-9 (17-20)  |
| FA81043-9  | 11/19/20 | 14:34 | CL | 11/20/20 | AQ | Ground Water | A2-10 (7-10)  |
| FA81043-10 | 11/19/20 | 14:41 | CL | 11/20/20 | AQ | Ground Water | A2-10 (17-20) |
| FA81043-11 | 11/19/20 | 14:54 | CL | 11/20/20 | AQ | Ground Water | A2-13 (7-10)  |
| FA81043-12 | 11/19/20 | 15:02 | CL | 11/20/20 | AQ | Ground Water | A2-13 (17-20) |



## Sample Summary

(continued)

ARCADIS Geraghty & Miller

**Job No:** FA81043

Brenntag; Charleston, SC  
 Project No: SC000204.0011.00001

| Sample Number | Collected |          | Received | Matrix |              | Client Sample ID |
|---------------|-----------|----------|----------|--------|--------------|------------------|
|               | Date      | Time By  |          | Code   | Type         |                  |
| FA81043-13    | 11/19/20  | 00:00 CL | 11/20/20 | AQ     | Ground Water | DUP 1            |
| FA81043-14    | 11/19/20  | 15:21 CL | 11/20/20 | AQ     | Ground Water | A2-14 (7-10)     |
| FA81043-15    | 11/19/20  | 15:34 CL | 11/20/20 | AQ     | Ground Water | A2-14 (17-20)    |
| FA81043-16    | 11/19/20  | 15:49 CL | 11/20/20 | AQ     | Ground Water | A2-15 (7-10)     |
| FA81043-17    | 11/19/20  | 16:05 CL | 11/20/20 | AQ     | Ground Water | A2-15 (17-20)    |
| FA81043-18    | 11/19/20  | 09:09 CL | 11/20/20 | AQ     | Ground Water | A2-26 (7-10)     |
| FA81043-19    | 11/19/20  | 10:04 CL | 11/20/20 | AQ     | Ground Water | A2-26 (17-20)    |
| FA81043-20    | 11/19/20  | 10:23 CL | 11/20/20 | AQ     | Ground Water | A2-3 (7-10)      |
| FA81043-21    | 11/19/20  | 10:32 CL | 11/20/20 | AQ     | Ground Water | A2-3 (17-20)     |
| FA81043-22    | 11/19/20  | 10:45 CL | 11/20/20 | AQ     | Ground Water | A2-6 (7-10)      |
| FA81043-23    | 11/19/20  | 10:54 CL | 11/20/20 | AQ     | Ground Water | A2-6 (17-20)     |
| FA81043-24    | 11/19/20  | 11:09 CL | 11/20/20 | AQ     | Ground Water | A2-7 (7-10)      |
| FA81043-25    | 11/19/20  | 11:17 CL | 11/20/20 | AQ     | Ground Water | A2-7 (17-20)     |



### Sample Summary (continued)

ARCADIS Geraghty & Miller

Job No: FA81043

Brenntag, Charleston, SC  
Project No: SC000204.0011.00001

| Sample Number | Collected |          | Received | Matrix |                  | Client Sample ID |
|---------------|-----------|----------|----------|--------|------------------|------------------|
|               | Date      | Time By  |          | Code   | Type             |                  |
| FA81043-26    | 11/19/20  | 11:36 CL | 11/20/20 | AQ     | Ground Water     | A2-11 (7-10)     |
| FA81043-27    | 11/19/20  | 11:44 CL | 11/20/20 | AQ     | Ground Water     | A2-11 (17-20)    |
| FA81043-28    | 11/19/20  | 11:58 CL | 11/20/20 | AQ     | Ground Water     | A2-12 (7-10)     |
| FA81043-29    | 11/19/20  | 12:21 CL | 11/20/20 | AQ     | Ground Water     | A2-12 (17-20)    |
| FA81043-30    | 11/19/20  | 00:00 CL | 11/20/20 | AQ     | Trip Blank Water | TRIP BLANK       |

## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID    | Client Sample ID    | Result/<br>Analyte                    | RL     | MDL  | Units | Method |             |
|------------------|---------------------|---------------------------------------|--------|------|-------|--------|-------------|
| <b>FA81043-1</b> | <b>A2-5 (7-10)</b>  |                                       |        |      |       |        |             |
|                  |                     | Benzene                               | 120 J  | 200  | 62    | ug/l   | SW846 8260D |
|                  |                     | 1,2-Dichlorobenzene                   | 156 J  | 200  | 65    | ug/l   | SW846 8260D |
|                  |                     | cis-1,2-Dichloroethylene              | 419    | 200  | 55    | ug/l   | SW846 8260D |
|                  |                     | Ethylbenzene                          | 2660   | 200  | 71    | ug/l   | SW846 8260D |
|                  |                     | Toluene                               | 16400  | 200  | 60    | ug/l   | SW846 8260D |
|                  |                     | Trichloroethylene                     | 97.4 J | 200  | 69    | ug/l   | SW846 8260D |
|                  |                     | Xylene (total)                        | 25400  | 600  | 140   | ug/l   | SW846 8260D |
| <b>FA81043-2</b> | <b>A2-5 (17-20)</b> |                                       |        |      |       |        |             |
|                  |                     | 1,2-Dichlorobenzene <sup>a</sup>      | 22.7   | 20   | 6.5   | ug/l   | SW846 8260D |
|                  |                     | cis-1,2-Dichloroethylene <sup>a</sup> | 19.7 J | 20   | 5.5   | ug/l   | SW846 8260D |
|                  |                     | Ethylbenzene <sup>a</sup>             | 267    | 20   | 7.1   | ug/l   | SW846 8260D |
|                  |                     | Toluene <sup>a</sup>                  | 820    | 20   | 6.0   | ug/l   | SW846 8260D |
|                  |                     | Xylene (total) <sup>a</sup>           | 2760   | 60   | 14    | ug/l   | SW846 8260D |
| <b>FA81043-3</b> | <b>A2-8 (7-10)</b>  |                                       |        |      |       |        |             |
|                  |                     | Benzene <sup>a</sup>                  | 122 J  | 200  | 62    | ug/l   | SW846 8260D |
|                  |                     | 1,2-Dichlorobenzene <sup>a</sup>      | 457    | 200  | 65    | ug/l   | SW846 8260D |
|                  |                     | cis-1,2-Dichloroethylene <sup>a</sup> | 264    | 200  | 55    | ug/l   | SW846 8260D |
|                  |                     | Ethylbenzene <sup>a</sup>             | 8770   | 200  | 71    | ug/l   | SW846 8260D |
|                  |                     | Isopropylbenzene <sup>a</sup>         | 101 J  | 200  | 44    | ug/l   | SW846 8260D |
|                  |                     | Toluene <sup>a</sup>                  | 28200  | 500  | 150   | ug/l   | SW846 8260D |
|                  |                     | Xylene (total) <sup>a</sup>           | 91200  | 1500 | 360   | ug/l   | SW846 8260D |
| <b>FA81043-4</b> | <b>A2-8 (17-20)</b> |                                       |        |      |       |        |             |
|                  |                     | cis-1,2-Dichloroethylene <sup>a</sup> | 15.9 J | 20   | 5.5   | ug/l   | SW846 8260D |
|                  |                     | Ethylbenzene <sup>a</sup>             | 312    | 20   | 7.1   | ug/l   | SW846 8260D |
|                  |                     | Toluene <sup>a</sup>                  | 1320   | 20   | 6.0   | ug/l   | SW846 8260D |
|                  |                     | Xylene (total) <sup>a</sup>           | 3110   | 60   | 14    | ug/l   | SW846 8260D |
| <b>FA81043-5</b> | <b>A2-20 (7-10)</b> |                                       |        |      |       |        |             |
|                  |                     | Benzene <sup>b</sup>                  | 2.0    | 2.0  | 0.62  | ug/l   | SW846 8260D |
|                  |                     | Chlorobenzene <sup>b</sup>            | 3.2    | 2.0  | 0.40  | ug/l   | SW846 8260D |
|                  |                     | Cyclohexane <sup>b</sup>              | 2.5    | 2.0  | 0.78  | ug/l   | SW846 8260D |
|                  |                     | 1,2-Dichlorobenzene <sup>b</sup>      | 1.3 J  | 2.0  | 0.65  | ug/l   | SW846 8260D |
|                  |                     | cis-1,2-Dichloroethylene <sup>b</sup> | 4.4    | 2.0  | 0.55  | ug/l   | SW846 8260D |
|                  |                     | Ethylbenzene <sup>b</sup>             | 17.3   | 2.0  | 0.71  | ug/l   | SW846 8260D |
|                  |                     | Toluene <sup>b</sup>                  | 31.2   | 2.0  | 0.60  | ug/l   | SW846 8260D |
|                  |                     | Vinyl Chloride <sup>b</sup>           | 8.0    | 2.0  | 0.82  | ug/l   | SW846 8260D |

## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID<br>Analyte              | Client Sample ID | Result/<br>Qual | RL   | MDL  | Units | Method      |
|---------------------------------------|------------------|-----------------|------|------|-------|-------------|
| Xylene (total) <sup>b</sup>           |                  | 177             | 6.0  | 1.4  | ug/l  | SW846 8260D |
| <b>FA81043-6      A2-20 (17-20)</b>   |                  |                 |      |      |       |             |
| 1,2-Dichlorobenzene                   |                  | 0.47 J          | 1.0  | 0.32 | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene              |                  | 1.4             | 1.0  | 0.28 | ug/l  | SW846 8260D |
| Ethylbenzene                          |                  | 7.8             | 1.0  | 0.36 | ug/l  | SW846 8260D |
| Toluene                               |                  | 10              | 1.0  | 0.30 | ug/l  | SW846 8260D |
| Xylene (total)                        |                  | 79.2            | 3.0  | 0.72 | ug/l  | SW846 8260D |
| <b>FA81043-7      A2-9 (7-10)</b>     |                  |                 |      |      |       |             |
| 1,2-Dichlorobenzene                   |                  | 774             | 200  | 65   | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene              |                  | 186 J           | 200  | 55   | ug/l  | SW846 8260D |
| Ethylbenzene                          |                  | 10700           | 200  | 71   | ug/l  | SW846 8260D |
| Isopropylbenzene                      |                  | 93.8 J          | 200  | 44   | ug/l  | SW846 8260D |
| Toluene                               |                  | 18500           | 1000 | 300  | ug/l  | SW846 8260D |
| 1,1,1-Trichloroethane                 |                  | 50.4 J          | 200  | 50   | ug/l  | SW846 8260D |
| Trichloroethylene                     |                  | 274             | 200  | 69   | ug/l  | SW846 8260D |
| Xylene (total)                        |                  | 100000          | 3000 | 720  | ug/l  | SW846 8260D |
| <b>FA81043-8      A2-9 (17-20)</b>    |                  |                 |      |      |       |             |
| 1,2-Dichlorobenzene                   |                  | 9.2 J           | 10   | 3.2  | ug/l  | SW846 8260D |
| Ethylbenzene                          |                  | 122             | 10   | 3.6  | ug/l  | SW846 8260D |
| Toluene                               |                  | 278             | 10   | 3.0  | ug/l  | SW846 8260D |
| Xylene (total)                        |                  | 1470            | 30   | 7.2  | ug/l  | SW846 8260D |
| <b>FA81043-9      A2-10 (7-10)</b>    |                  |                 |      |      |       |             |
| Benzene <sup>b</sup>                  |                  | 18.8            | 2.0  | 0.62 | ug/l  | SW846 8260D |
| Chlorobenzene <sup>b</sup>            |                  | 23.0            | 2.0  | 0.40 | ug/l  | SW846 8260D |
| Cyclohexane <sup>b</sup>              |                  | 3.6             | 2.0  | 0.78 | ug/l  | SW846 8260D |
| 1,2-Dichlorobenzene <sup>b</sup>      |                  | 2.7             | 2.0  | 0.65 | ug/l  | SW846 8260D |
| 1,3-Dichlorobenzene <sup>b</sup>      |                  | 0.59 J          | 2.0  | 0.43 | ug/l  | SW846 8260D |
| 1,4-Dichlorobenzene <sup>b</sup>      |                  | 2.2             | 2.0  | 0.51 | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>b</sup> |                  | 6.2             | 2.0  | 0.55 | ug/l  | SW846 8260D |
| Ethylbenzene <sup>b</sup>             |                  | 69.3            | 2.0  | 0.71 | ug/l  | SW846 8260D |
| Isopropylbenzene <sup>b</sup>         |                  | 50.3            | 2.0  | 0.44 | ug/l  | SW846 8260D |
| Methylcyclohexane <sup>b</sup>        |                  | 21.0            | 2.0  | 0.87 | ug/l  | SW846 8260D |
| Toluene <sup>b</sup>                  |                  | 13.8            | 2.0  | 0.60 | ug/l  | SW846 8260D |
| Xylene (total) <sup>b</sup>           |                  | 205             | 6.0  | 1.4  | ug/l  | SW846 8260D |

## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID                         | Client Sample ID | Result/<br>Qual      | RL  | MDL  | Units | Method      |
|---------------------------------------|------------------|----------------------|-----|------|-------|-------------|
| <b>FA81043-10</b>                     |                  | <b>A2-10 (17-20)</b> |     |      |       |             |
| Benzene                               |                  | 1.3                  | 1.0 | 0.31 | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene              |                  | 0.40 J               | 1.0 | 0.28 | ug/l  | SW846 8260D |
| Ethylbenzene                          |                  | 4.7                  | 1.0 | 0.36 | ug/l  | SW846 8260D |
| Isopropylbenzene                      |                  | 0.31 J               | 1.0 | 0.22 | ug/l  | SW846 8260D |
| Toluene                               |                  | 3.7                  | 1.0 | 0.30 | ug/l  | SW846 8260D |
| Xylene (total)                        |                  | 28.9                 | 3.0 | 0.72 | ug/l  | SW846 8260D |
| <b>FA81043-11</b>                     |                  | <b>A2-13 (7-10)</b>  |     |      |       |             |
| Benzene <sup>a</sup>                  |                  | 3.8 J                | 5.0 | 1.6  | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>a</sup> |                  | 9.8                  | 5.0 | 1.4  | ug/l  | SW846 8260D |
| Ethylbenzene <sup>a</sup>             |                  | 259                  | 5.0 | 1.8  | ug/l  | SW846 8260D |
| Isopropylbenzene <sup>a</sup>         |                  | 17.6                 | 5.0 | 1.1  | ug/l  | SW846 8260D |
| Methylcyclohexane <sup>a</sup>        |                  | 3.2 J                | 5.0 | 2.2  | ug/l  | SW846 8260D |
| Toluene <sup>a</sup>                  |                  | 10.1                 | 5.0 | 1.5  | ug/l  | SW846 8260D |
| Xylene (total) <sup>a</sup>           |                  | 314                  | 15  | 3.6  | ug/l  | SW846 8260D |
| <b>FA81043-12</b>                     |                  | <b>A2-13 (17-20)</b> |     |      |       |             |
| cis-1,2-Dichloroethylene <sup>a</sup> |                  | 1.3                  | 1.0 | 0.28 | ug/l  | SW846 8260D |
| Ethylbenzene <sup>a</sup>             |                  | 3.1                  | 1.0 | 0.36 | ug/l  | SW846 8260D |
| Isopropylbenzene <sup>a</sup>         |                  | 0.36 J               | 1.0 | 0.22 | ug/l  | SW846 8260D |
| Xylene (total) <sup>a</sup>           |                  | 4.7                  | 3.0 | 0.72 | ug/l  | SW846 8260D |
| <b>FA81043-13</b>                     |                  | <b>DUP 1</b>         |     |      |       |             |
| cis-1,2-Dichloroethylene              |                  | 1.4                  | 1.0 | 0.28 | ug/l  | SW846 8260D |
| Ethylbenzene                          |                  | 7.5                  | 1.0 | 0.36 | ug/l  | SW846 8260D |
| Toluene                               |                  | 9.6                  | 1.0 | 0.30 | ug/l  | SW846 8260D |
| Xylene (total)                        |                  | 76.2                 | 3.0 | 0.72 | ug/l  | SW846 8260D |
| <b>FA81043-14</b>                     |                  | <b>A2-14 (7-10)</b>  |     |      |       |             |
| Benzene <sup>b</sup>                  |                  | 3.2                  | 2.0 | 0.62 | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>b</sup> |                  | 2.6                  | 2.0 | 0.55 | ug/l  | SW846 8260D |
| Ethylbenzene <sup>b</sup>             |                  | 100                  | 2.0 | 0.71 | ug/l  | SW846 8260D |
| Isopropylbenzene <sup>b</sup>         |                  | 17.2                 | 2.0 | 0.44 | ug/l  | SW846 8260D |
| Methylcyclohexane <sup>b</sup>        |                  | 2.2                  | 2.0 | 0.87 | ug/l  | SW846 8260D |
| Xylene (total) <sup>b</sup>           |                  | 112                  | 6.0 | 1.4  | ug/l  | SW846 8260D |
| <b>FA81043-15</b>                     |                  | <b>A2-14 (17-20)</b> |     |      |       |             |
| Acetone                               |                  | 14.0 J               | 25  | 10   | ug/l  | SW846 8260D |

## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID | Client Sample ID | Result/<br>Analyte | RL | MDL | Units | Method |
|---------------|------------------|--------------------|----|-----|-------|--------|
|---------------|------------------|--------------------|----|-----|-------|--------|

|                          |  |        |     |      |      |             |
|--------------------------|--|--------|-----|------|------|-------------|
| Carbon Disulfide         |  | 0.77 J | 2.0 | 0.53 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 0.44 J | 1.0 | 0.28 | ug/l | SW846 8260D |
| Ethylbenzene             |  | 1.1    | 1.0 | 0.36 | ug/l | SW846 8260D |
| Toluene                  |  | 0.61 J | 1.0 | 0.30 | ug/l | SW846 8260D |

### FA81043-16 A2-15 (7-10)

|   |  |        |     |      |      |             |
|---|--|--------|-----|------|------|-------------|
| Benzene <sup>a</sup>                    |  | 0.64 J | 1.0 | 0.31 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>a</sup>   |  | 69.4   | 1.0 | 0.28 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethylene <sup>a</sup> |  | 0.44 J | 1.0 | 0.22 | ug/l | SW846 8260D |
| Ethylbenzene <sup>a</sup>               |  | 18.6   | 1.0 | 0.36 | ug/l | SW846 8260D |
| Isopropylbenzene <sup>a</sup>           |  | 0.90 J | 1.0 | 0.22 | ug/l | SW846 8260D |
| Vinyl Chloride <sup>a</sup>             |  | 12.8   | 1.0 | 0.41 | ug/l | SW846 8260D |
| Xylene (total) <sup>a</sup>             |  | 33.9   | 3.0 | 0.72 | ug/l | SW846 8260D |

### FA81043-17 A2-15 (17-20)

|                          |  |        |     |      |      |             |
|--------------------------|--|--------|-----|------|------|-------------|
| Acetone                  |  | 19.8 J | 25  | 10   | ug/l | SW846 8260D |
| Carbon Disulfide         |  | 0.84 J | 2.0 | 0.53 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 0.51 J | 1.0 | 0.28 | ug/l | SW846 8260D |
| Ethylbenzene             |  | 0.47 J | 1.0 | 0.36 | ug/l | SW846 8260D |

### FA81043-18 A2-26 (7-10)

|                     |  |       |     |     |      |             |
|---------------------|--|-------|-----|-----|------|-------------|
| 1,2-Dichlorobenzene |  | 611   | 200 | 65  | ug/l | SW846 8260D |
| 1,4-Dichlorobenzene |  | 167 J | 200 | 51  | ug/l | SW846 8260D |
| Ethylbenzene        |  | 9090  | 200 | 71  | ug/l | SW846 8260D |
| Isopropylbenzene    |  | 121 J | 200 | 44  | ug/l | SW846 8260D |
| Toluene             |  | 3220  | 200 | 60  | ug/l | SW846 8260D |
| Xylene (total)      |  | 51400 | 750 | 180 | ug/l | SW846 8260D |

### FA81043-19 A2-26 (17-20)

|                          |  |        |     |      |      |             |
|--------------------------|--|--------|-----|------|------|-------------|
| Benzene                  |  | 1.1    | 1.0 | 0.31 | ug/l | SW846 8260D |
| Carbon Disulfide         |  | 1.0 J  | 2.0 | 0.53 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene      |  | 1.8    | 1.0 | 0.32 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene |  | 8.6    | 1.0 | 0.28 | ug/l | SW846 8260D |
| Ethylbenzene             |  | 46.1   | 1.0 | 0.36 | ug/l | SW846 8260D |
| Isopropylbenzene         |  | 0.48 J | 1.0 | 0.22 | ug/l | SW846 8260D |
| Toluene                  |  | 40.7   | 1.0 | 0.30 | ug/l | SW846 8260D |
| Xylene (total)           |  | 235    | 3.0 | 0.72 | ug/l | SW846 8260D |

### FA81043-20 A2-3 (7-10)

|         |  |       |     |     |      |             |
|---------|--|-------|-----|-----|------|-------------|
| Benzene |  | 260 J | 500 | 160 | ug/l | SW846 8260D |
|---------|--|-------|-----|-----|------|-------------|



## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID                  | Client Sample ID | Result/<br>Analyte                    | RL       | MDL  | Units | Method           |
|--------------------------------|------------------|---------------------------------------|----------|------|-------|------------------|
|                                |                  | Chlorobenzene                         | 1000     | 500  | 100   | ug/l SW846 8260D |
|                                |                  | cis-1,2-Dichloroethylene              | 398 J    | 500  | 140   | ug/l SW846 8260D |
|                                |                  | Ethylbenzene                          | 4940     | 500  | 180   | ug/l SW846 8260D |
|                                |                  | Isopropylbenzene                      | 137 J    | 500  | 110   | ug/l SW846 8260D |
|                                |                  | Toluene                               | 25300    | 500  | 150   | ug/l SW846 8260D |
|                                |                  | Trichloroethylene                     | 269 J    | 500  | 170   | ug/l SW846 8260D |
|                                |                  | Xylene (total)                        | 39200    | 1500 | 360   | ug/l SW846 8260D |
| <b>FA81043-21 A2-3 (17-20)</b> |                  |                                       |          |      |       |                  |
|                                |                  | Benzene                               | 18.5     | 10   | 3.1   | ug/l SW846 8260D |
|                                |                  | Chlorobenzene                         | 9.3 J    | 10   | 2.0   | ug/l SW846 8260D |
|                                |                  | 1,2-Dichlorobenzene                   | 5.6 J    | 10   | 3.2   | ug/l SW846 8260D |
|                                |                  | cis-1,2-Dichloroethylene              | 50.2     | 10   | 2.8   | ug/l SW846 8260D |
|                                |                  | Ethylbenzene                          | 91.6     | 10   | 3.6   | ug/l SW846 8260D |
|                                |                  | Toluene                               | 479      | 10   | 3.0   | ug/l SW846 8260D |
|                                |                  | Trichloroethylene                     | 7.2 J    | 10   | 3.5   | ug/l SW846 8260D |
|                                |                  | Vinyl Chloride                        | 10.4     | 10   | 4.1   | ug/l SW846 8260D |
|                                |                  | Xylene (total)                        | 916      | 30   | 7.2   | ug/l SW846 8260D |
| <b>FA81043-22 A2-6 (7-10)</b>  |                  |                                       |          |      |       |                  |
|                                |                  | Benzene <sup>c</sup>                  | 537 J    | 1000 | 310   | ug/l SW846 8260D |
|                                |                  | 1,2-Dichlorobenzene <sup>c</sup>      | 596 J    | 1000 | 320   | ug/l SW846 8260D |
|                                |                  | cis-1,2-Dichloroethylene <sup>c</sup> | 7750     | 1000 | 280   | ug/l SW846 8260D |
|                                |                  | Ethylbenzene <sup>c</sup>             | 10400    | 1000 | 360   | ug/l SW846 8260D |
|                                |                  | Toluene <sup>d</sup>                  | 134000 E | 1000 | 300   | ug/l SW846 8260D |
|                                |                  | 1,1,1-Trichloroethane <sup>c</sup>    | 388 J    | 1000 | 250   | ug/l SW846 8260D |
|                                |                  | Trichloroethylene <sup>c</sup>        | 1750     | 1000 | 350   | ug/l SW846 8260D |
|                                |                  | Xylene (total) <sup>c</sup>           | 105000   | 3000 | 720   | ug/l SW846 8260D |
| <b>FA81043-23 A2-6 (17-20)</b> |                  |                                       |          |      |       |                  |
|                                |                  | Benzene                               | 32.9     | 20   | 6.2   | ug/l SW846 8260D |
|                                |                  | Chlorobenzene                         | 9.3 J    | 20   | 4.0   | ug/l SW846 8260D |
|                                |                  | cis-1,2-Dichloroethylene              | 67.0     | 20   | 5.5   | ug/l SW846 8260D |
|                                |                  | Ethylbenzene                          | 142      | 20   | 7.1   | ug/l SW846 8260D |
|                                |                  | Toluene                               | 1180     | 20   | 6.0   | ug/l SW846 8260D |
|                                |                  | Trichloroethylene                     | 12.2 J   | 20   | 6.9   | ug/l SW846 8260D |
|                                |                  | Vinyl Chloride                        | 10.9 J   | 20   | 8.2   | ug/l SW846 8260D |
|                                |                  | Xylene (total)                        | 1260     | 60   | 14    | ug/l SW846 8260D |
| <b>FA81043-24 A2-7 (7-10)</b>  |                  |                                       |          |      |       |                  |
|                                |                  | Benzene <sup>a</sup>                  | 256      | 200  | 62    | ug/l SW846 8260D |

## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

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| Lab Sample ID                        | Client Sample ID | Result/<br>Analyte                    | RL     | MDL  | Units | Method |             |
|--------------------------------------|------------------|---------------------------------------|--------|------|-------|--------|-------------|
|                                      |                  | 1,2-Dichlorobenzene <sup>a</sup>      | 486    | 200  | 65    | ug/l   | SW846 8260D |
|                                      |                  | cis-1,2-Dichloroethylene <sup>a</sup> | 3320   | 200  | 55    | ug/l   | SW846 8260D |
|                                      |                  | Ethylbenzene <sup>a</sup>             | 11000  | 200  | 71    | ug/l   | SW846 8260D |
|                                      |                  | Isopropylbenzene <sup>a</sup>         | 148 J  | 200  | 44    | ug/l   | SW846 8260D |
|                                      |                  | Toluene <sup>a</sup>                  | 63200  | 1000 | 300   | ug/l   | SW846 8260D |
|                                      |                  | 1,1,1-Trichloroethane <sup>a</sup>    | 108 J  | 200  | 50    | ug/l   | SW846 8260D |
|                                      |                  | Trichloroethylene <sup>a</sup>        | 990    | 200  | 69    | ug/l   | SW846 8260D |
|                                      |                  | Xylene (total) <sup>a</sup>           | 129000 | 3000 | 720   | ug/l   | SW846 8260D |
| <b>FA81043-25      A2-7 (17-20)</b>  |                  |                                       |        |      |       |        |             |
|                                      |                  | Benzene                               | 23.4   | 5.0  | 1.6   | ug/l   | SW846 8260D |
|                                      |                  | Chlorobenzene                         | 5.5    | 5.0  | 1.0   | ug/l   | SW846 8260D |
|                                      |                  | 1,2-Dichlorobenzene                   | 5.8    | 5.0  | 1.6   | ug/l   | SW846 8260D |
|                                      |                  | cis-1,2-Dichloroethylene              | 16.0   | 5.0  | 1.4   | ug/l   | SW846 8260D |
|                                      |                  | Ethylbenzene                          | 71.4   | 5.0  | 1.8   | ug/l   | SW846 8260D |
|                                      |                  | Isopropylbenzene                      | 1.3 J  | 5.0  | 1.1   | ug/l   | SW846 8260D |
|                                      |                  | Toluene                               | 227    | 5.0  | 1.5   | ug/l   | SW846 8260D |
|                                      |                  | Trichloroethylene                     | 1.8 J  | 5.0  | 1.7   | ug/l   | SW846 8260D |
|                                      |                  | Vinyl Chloride                        | 3.0 J  | 5.0  | 2.0   | ug/l   | SW846 8260D |
|                                      |                  | Xylene (total)                        | 800    | 15   | 3.6   | ug/l   | SW846 8260D |
| <b>FA81043-26      A2-11 (7-10)</b>  |                  |                                       |        |      |       |        |             |
|                                      |                  | Benzene <sup>b</sup>                  | 7.9    | 2.0  | 0.62  | ug/l   | SW846 8260D |
|                                      |                  | Chlorobenzene <sup>b</sup>            | 19.9   | 2.0  | 0.40  | ug/l   | SW846 8260D |
|                                      |                  | 1,2-Dichlorobenzene <sup>b</sup>      | 1.8 J  | 2.0  | 0.65  | ug/l   | SW846 8260D |
|                                      |                  | 1,4-Dichlorobenzene <sup>b</sup>      | 1.2 J  | 2.0  | 0.51  | ug/l   | SW846 8260D |
|                                      |                  | cis-1,2-Dichloroethylene <sup>b</sup> | 45.0   | 2.0  | 0.55  | ug/l   | SW846 8260D |
|                                      |                  | Ethylbenzene <sup>b</sup>             | 77.1   | 2.0  | 0.71  | ug/l   | SW846 8260D |
|                                      |                  | Isopropylbenzene <sup>b</sup>         | 12.1   | 2.0  | 0.44  | ug/l   | SW846 8260D |
|                                      |                  | Methylcyclohexane <sup>b</sup>        | 3.1    | 2.0  | 0.87  | ug/l   | SW846 8260D |
|                                      |                  | Toluene <sup>b</sup>                  | 16.3   | 2.0  | 0.60  | ug/l   | SW846 8260D |
|                                      |                  | Vinyl Chloride <sup>b</sup>           | 4.8    | 2.0  | 0.82  | ug/l   | SW846 8260D |
|                                      |                  | Xylene (total) <sup>b</sup>           | 162    | 6.0  | 1.4   | ug/l   | SW846 8260D |
| <b>FA81043-27      A2-11 (17-20)</b> |                  |                                       |        |      |       |        |             |
|                                      |                  | Benzene <sup>b</sup>                  | 6.2    | 2.0  | 0.62  | ug/l   | SW846 8260D |
|                                      |                  | Ethylbenzene <sup>b</sup>             | 4.7    | 2.0  | 0.71  | ug/l   | SW846 8260D |
|                                      |                  | Isopropylbenzene <sup>b</sup>         | 0.75 J | 2.0  | 0.44  | ug/l   | SW846 8260D |
|                                      |                  | Toluene <sup>b</sup>                  | 4.8    | 2.0  | 0.60  | ug/l   | SW846 8260D |
|                                      |                  | Xylene (total) <sup>b</sup>           | 40.9   | 6.0  | 1.4   | ug/l   | SW846 8260D |

## Summary of Hits

**Job Number:** FA81043  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/19/20

| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

**FA81043-28      A2-12 (7-10)**

|                                       |  |        |     |      |      |             |
|---------------------------------------|--|--------|-----|------|------|-------------|
| Benzene <sup>e</sup>                  |  | 2.3    | 2.0 | 0.62 | ug/l | SW846 8260D |
| 1,2-Dichlorobenzene <sup>e</sup>      |  | 0.79 J | 2.0 | 0.65 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>e</sup> |  | 62.1   | 2.0 | 0.55 | ug/l | SW846 8260D |
| Ethylbenzene <sup>e</sup>             |  | 36.4   | 2.0 | 0.71 | ug/l | SW846 8260D |
| Isopropylbenzene <sup>e</sup>         |  | 5.3    | 2.0 | 0.44 | ug/l | SW846 8260D |
| Methylcyclohexane <sup>e</sup>        |  | 1.6 J  | 2.0 | 0.87 | ug/l | SW846 8260D |
| Toluene <sup>e</sup>                  |  | 3.8    | 2.0 | 0.60 | ug/l | SW846 8260D |
| Vinyl Chloride <sup>e</sup>           |  | 6.5    | 2.0 | 0.82 | ug/l | SW846 8260D |
| Xylene (total) <sup>e</sup>           |  | 86.3   | 6.0 | 1.4  | ug/l | SW846 8260D |

**FA81043-29      A2-12 (17-20)**

|                                       |  |        |     |      |      |             |
|---------------------------------------|--|--------|-----|------|------|-------------|
| Acetone <sup>e</sup>                  |  | 27.1 J | 50  | 20   | ug/l | SW846 8260D |
| cis-1,2-Dichloroethylene <sup>e</sup> |  | 6.5    | 2.0 | 0.55 | ug/l | SW846 8260D |
| Ethylbenzene <sup>e</sup>             |  | 5.5    | 2.0 | 0.71 | ug/l | SW846 8260D |
| Toluene <sup>e</sup>                  |  | 3.3    | 2.0 | 0.60 | ug/l | SW846 8260D |
| Xylene (total) <sup>e</sup>           |  | 28.8   | 6.0 | 1.4  | ug/l | SW846 8260D |

**FA81043-30      TRIP BLANK**

|                  |  |      |     |      |      |             |
|------------------|--|------|-----|------|------|-------------|
| Acetone          |  | 104  | 25  | 10   | ug/l | SW846 8260D |
| 2-Butanone (MEK) |  | 61.4 | 5.0 | 2.0  | ug/l | SW846 8260D |
| Methyl Chloride  |  | 5.2  | 2.0 | 0.50 | ug/l | SW846 8260D |

- (a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
- (b) Dilution required due to high silt content in the sample. Sample was not preserved to a pH < 2; reported results are considered minimum values.
- (c) Results from different vials are not consistent; higher results were reported.
- (d) Results from different vials are not consistent; higher results were reported. No sample available for reanalysis.
- (e) Sample was not preserved to a pH < 2; reported results are considered minimum values. Dilution required due to high silt content in the sample.

Sample Results

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Report of Analysis

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## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-5 (7-10)     |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-1          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1              | 5E25804.D | 200 | 12/02/20 13:18 | SO | n/a       | n/a        | V5E1189          |
| Run #2 <sup>a</sup> | 5E25777.D | 500 | 12/01/20 14:29 | SO | n/a       | n/a        | V5E1188          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 5000 | 2000 | ug/l  |   |
| 71-43-2    | Benzene                     | 120    | 200  | 62   | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 200  | 48   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 200  | 81   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 1000 | 400  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 400  | 110  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 200  | 71   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 200  | 40   | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 400  | 130  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 200  | 60   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 200  | 78   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 200  | 55   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 1000 | 210  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 400  | 55   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 400  | 100  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 156    | 200  | 65   | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 200  | 43   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 200  | 51   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 200  | 68   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 200  | 62   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 200  | 64   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 419    | 200  | 55   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 200  | 44   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 200  | 85   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 200  | 58   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 200  | 43   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 2660   | 200  | 71   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 200  | 96   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 2000 | 400  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 200  | 44   | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 4000 | 1000 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 1000 | 400  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-5 (7-10)              | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-1                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL   | MDL | Units | Q |
|-----------|-------------------------------------|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 400  | 100 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 200  | 87  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 1000 | 400 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 1000 | 200 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 200  | 46  | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 200  | 44  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 200  | 60  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 200  | 43  | ug/l  |   |
| 108-88-3  | Toluene                             | 16400  | 200  | 60  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 400  | 100 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 200  | 50  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 200  | 93  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 97.4   | 200  | 69  | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 400  | 100 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 200  | 82  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 25400  | 600  | 140 | ug/l  |   |

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

(a) Confirmation run.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-5 (17-20)    |                                |
| <b>Lab Sample ID:</b> FA81043-2          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25778.D | 20 | 12/01/20 14:52 | SO | n/a       | n/a        | V5E1188          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 500 | 200 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 20  | 6.2 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 20  | 4.8 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 20  | 8.1 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 100 | 40  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 40  | 11  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 20  | 7.1 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 20  | 4.0 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 40  | 13  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 20  | 6.0 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 20  | 7.8 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 20  | 5.5 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 100 | 21  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 40  | 5.5 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 40  | 10  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 22.7   | 20  | 6.5 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 20  | 4.3 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 20  | 5.1 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 20  | 6.8 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 20  | 6.2 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 20  | 6.4 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 19.7   | 20  | 5.5 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 20  | 4.4 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 20  | 8.5 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 20  | 5.8 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 20  | 4.3 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 267    | 20  | 7.1 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 20  | 9.6 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 200 | 40  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 20  | 4.4 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 400 | 100 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 100 | 40  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-5 (17-20)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-2                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 40  | 10  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 20  | 8.7 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 100 | 40  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 100 | 20  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 20  | 4.6 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 20  | 4.4 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 20  | 6.0 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 20  | 4.3 | ug/l  |   |
| 108-88-3  | Toluene                             | 820    | 20  | 6.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 40  | 10  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 20  | 5.0 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 20  | 9.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 20  | 6.9 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 40  | 10  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 20  | 8.2 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 2760   | 60  | 14  | ug/l  |   |

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

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

(b) Associated CCV outside of control limits high, sample was ND.

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

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-8 (7-10)     |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-3          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25779.D | 200 | 12/01/20 15:15 | SO | n/a       | n/a        | V5E1188          |
| Run #2 <sup>a</sup> | 5E25805.D | 500 | 12/02/20 13:41 | SO | n/a       | n/a        | V5E1189          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 5000 | 2000 | ug/l  |   |
| 71-43-2    | Benzene                     | 122    | 200  | 62   | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 200  | 48   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 200  | 81   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 1000 | 400  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 400  | 110  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 200  | 71   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 200  | 40   | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 400  | 130  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 200  | 60   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 200  | 78   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 200  | 55   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 1000 | 210  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 400  | 55   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 400  | 100  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 457    | 200  | 65   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 200  | 43   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 200  | 51   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 200  | 68   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 200  | 62   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 200  | 64   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 264    | 200  | 55   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 200  | 44   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 200  | 85   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 200  | 58   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 200  | 43   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 8770   | 200  | 71   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 200  | 96   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 2000 | 400  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 101    | 200  | 44   | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 4000 | 1000 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 1000 | 400  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-8 (7-10)              | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-3                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result             | RL   | MDL | Units | Q |
|-----------|-------------------------------------|--------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                 | 400  | 100 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND                 | 200  | 87  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND                 | 1000 | 400 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                 | 1000 | 200 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                 | 200  | 46  | ug/l  |   |
| 100-42-5  | Styrene                             | ND                 | 200  | 44  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                 | 200  | 60  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND                 | 200  | 43  | ug/l  |   |
| 108-88-3  | Toluene                             | 28200 <sup>c</sup> | 500  | 150 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                 | 400  | 100 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                 | 200  | 50  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                 | 200  | 93  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND                 | 200  | 69  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND                 | 400  | 100 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND                 | 200  | 82  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 91200 <sup>c</sup> | 1500 | 360 | ug/l  |   |

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

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

(b) Associated CCV outside of control limits high, sample was ND.

(c) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-8 (17-20)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-4          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25806.D | 20 | 12/02/20 14:03 | SO | n/a       | n/a        | V5E1189          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 500 | 200 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 20  | 6.2 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 20  | 4.8 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 20  | 8.1 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 100 | 40  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 40  | 11  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 20  | 7.1 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 20  | 4.0 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 40  | 13  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 20  | 6.0 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 20  | 7.8 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 20  | 5.5 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 100 | 21  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 40  | 5.5 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 40  | 10  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 20  | 6.5 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 20  | 4.3 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 20  | 5.1 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 20  | 6.8 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 20  | 6.2 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 20  | 6.4 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 15.9   | 20  | 5.5 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 20  | 4.4 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 20  | 8.5 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 20  | 5.8 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 20  | 4.3 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 312    | 20  | 7.1 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 20  | 9.6 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 200 | 40  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 20  | 4.4 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 400 | 100 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 100 | 40  | ug/l  |   |

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

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-8 (17-20)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-4                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 40  | 10  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 20  | 8.7 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 100 | 40  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 100 | 20  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 20  | 4.6 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 20  | 4.4 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 20  | 6.0 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 20  | 4.3 | ug/l  |   |
| 108-88-3  | Toluene                             | 1320   | 20  | 6.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 40  | 10  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 20  | 5.0 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 20  | 9.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 20  | 6.9 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 40  | 10  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 20  | 8.2 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 3110   | 60  | 14  | ug/l  |   |

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

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

(b) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-5          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25807.D | 2  | 12/02/20 14:26 | SO | n/a       | n/a        | V5E1189          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                     | 2.0    | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 3.2    | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | 2.5    | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.3    | 2.0 | 0.65 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 4.4    | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 17.3   | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-5          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                             | 31.2   | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | 8.0    | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 177    | 6.0 | 1.4  | ug/l  |   |

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

(a) Dilution required due to high silt content in the sample. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-6          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25770.D | 1  | 12/01/20 11:48 | SO | n/a       | n/a        | V5E1188          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 0.47   | 1.0 | 0.32 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.4    | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 7.8    | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-20 (17-20)   |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-6          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | 10     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 79.2   | 3.0 | 0.72 | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

---

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-9 (7-10)     |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-7          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID   | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|------|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25782.D | 200  | 12/01/20 16:24 | SO | n/a       | n/a        | V5E1188          |
| Run #2 | 5E25808.D | 1000 | 12/02/20 14:49 | SO | n/a       | n/a        | V5E1189          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 5000 | 2000 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 200  | 62   | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 200  | 48   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 200  | 81   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 1000 | 400  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 400  | 110  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 200  | 71   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 200  | 40   | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 400  | 130  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 200  | 60   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 200  | 78   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 200  | 55   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 1000 | 210  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 400  | 55   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 400  | 100  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 774    | 200  | 65   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 200  | 43   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 200  | 51   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 200  | 68   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 200  | 62   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 200  | 64   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 186    | 200  | 55   | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 200  | 44   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 200  | 85   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 200  | 58   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 200  | 43   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 10700  | 200  | 71   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 200  | 96   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 2000 | 400  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 93.8   | 200  | 44   | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 4000 | 1000 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 1000 | 400  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-9 (7-10)              | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-7                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result              | RL   | MDL | Units | Q |
|-----------|-------------------------------------|---------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                  | 400  | 100 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND                  | 200  | 87  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND                  | 1000 | 400 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                  | 1000 | 200 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                  | 200  | 46  | ug/l  |   |
| 100-42-5  | Styrene                             | ND                  | 200  | 44  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                  | 200  | 60  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND                  | 200  | 43  | ug/l  |   |
| 108-88-3  | Toluene                             | 18500 <sup>b</sup>  | 1000 | 300 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                  | 400  | 100 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | 50.4                | 200  | 50  | ug/l  | J |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                  | 200  | 93  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 274                 | 200  | 69  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND                  | 400  | 100 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND                  | 200  | 82  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 100000 <sup>b</sup> | 3000 | 720 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   | 100%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   | 102%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 94%    | 100%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    | 98%    | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-9 (17-20)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-8          |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25783.D | 10 | 12/01/20 16:47 | SO | n/a       | n/a        | V5E1188          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 250 | 100 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 10  | 3.1 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 10  | 2.4 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 10  | 4.1 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 50  | 20  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 20  | 5.3 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 10  | 3.6 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 10  | 2.0 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 20  | 6.7 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 10  | 3.0 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 10  | 3.9 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 10  | 2.8 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 50  | 10  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 20  | 2.8 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 20  | 5.0 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 9.2    | 10  | 3.2 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 10  | 2.2 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 10  | 2.6 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 10  | 3.4 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 10  | 3.1 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 10  | 3.2 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 10  | 2.8 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 10  | 2.2 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 10  | 4.3 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 10  | 2.9 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 10  | 2.1 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 122    | 10  | 3.6 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 10  | 4.8 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 100 | 20  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 10  | 2.2 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 200 | 50  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 50  | 20  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-9 (17-20)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-8                | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 20 | 5.0 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 10 | 4.4 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 50 | 20  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 50 | 10  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 10 | 2.3 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 10 | 2.2 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 10 | 3.0 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 10 | 2.2 | ug/l  |   |
| 108-88-3  | Toluene                             | 278    | 10 | 3.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 20 | 5.0 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 10 | 2.5 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 10 | 4.7 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 10 | 3.5 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 20 | 5.0 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 10 | 4.1 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 1470   | 30 | 7.2 | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

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

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-10 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-9          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25809.D | 2  | 12/02/20 15:12 | SO | n/a       | n/a        | V5E1189          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                     | 18.8   | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 23.0   | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | 3.6    | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 2.7    | 2.0 | 0.65 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | 0.59   | 2.0 | 0.43 | ug/l  | J |
| 106-46-7   | 1,4-Dichlorobenzene         | 2.2    | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 6.2    | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 69.3   | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 50.3   | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 10  | 4.0  | ug/l  |   |

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-10 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-9          | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | 21.0   | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                             | 13.8   | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 205    | 6.0 | 1.4  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

(a) Dilution required due to high silt content in the sample. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Associated CCV outside of control limits high, sample was ND.

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

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-10 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-10         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25771.D | 1  | 12/01/20 12:11 | SO | n/a       | n/a        | V5E1188          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | 1.3    | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 0.40   | 1.0 | 0.28 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 4.7    | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 0.31   | 1.0 | 0.22 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-10 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-10               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | 3.7    | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 28.9   | 3.0 | 0.72 | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

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

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



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-13 (7-10)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-11         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25785.D | 5  | 12/01/20 17:34 | SO | n/a       | n/a        | V5E1188          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 130 | 50  | ug/l  |   |
| 71-43-2    | Benzene                     | 3.8    | 5.0 | 1.6 | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.2 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 2.0 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 10  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 10  | 2.7 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.8 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 5.0 | 1.0 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 10  | 3.3 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.5 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 2.0 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.4 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 25  | 5.2 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 10  | 1.4 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 10  | 2.5 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 5.0 | 1.6 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.1 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.3 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.7 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.6 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.6 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 9.8    | 5.0 | 1.4 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.1 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 2.1 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.5 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 259    | 5.0 | 1.8 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 2.4 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 50  | 10  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 17.6   | 5.0 | 1.1 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 100 | 25  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 25  | 10  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-13 (7-10)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-11               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 10  | 2.5 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | 3.2    | 5.0 | 2.2 | ug/l  | J |
| 75-09-2   | Methylene Chloride                  | ND     | 25  | 10  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 25  | 5.0 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 5.0 | 1.1 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 5.0 | 1.5 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 5.0 | 1.1 | ug/l  |   |
| 108-88-3  | Toluene                             | 10.1   | 5.0 | 1.5 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 10  | 2.5 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 5.0 | 1.2 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 5.0 | 2.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 5.0 | 1.7 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 10  | 2.5 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 5.0 | 2.0 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 314    | 15  | 3.6 | ug/l  |   |

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

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

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-13 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-12         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25775.D | 1  | 12/01/20 13:43 | SO | n/a       | n/a        | V5E1188          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.3    | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 3.1    | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 0.36   | 1.0 | 0.22 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-13 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-12               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 4.7    | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    |        | 83-118% |

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

(b) Associated CCV outside of control limits high, sample was ND.

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

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> DUP 1           |  |                                |
| <b>Lab Sample ID:</b> FA81043-13         |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25772.D | 1  | 12/01/20 12:34 | SO | n/a       | n/a        | V5E1188          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.4    | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 7.5    | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | DUP 1                    | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-13               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | 9.6    | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 76.2   | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-14 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-14         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25810.D | 2  | 12/02/20 15:35 | SO | n/a       | n/a        | V5E1189          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                     | 3.2    | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 2.0 | 0.65 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 2.6    | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 100    | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 17.2   | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-14 (7-10)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-14               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | 2.2    | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                             | ND     | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 112    | 6.0 | 1.4  | ug/l  |   |

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

(a) Dilution required due to high silt content in the sample. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Associated CCV outside of control limits high, sample was ND.

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

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



# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-14 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-15         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25801.D | 1  | 12/02/20 12:09 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

### VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 14.0   | 25  | 10   | ug/l  | J |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | 0.77   | 2.0 | 0.53 | ug/l  | J |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 0.44   | 1.0 | 0.28 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 1.1    | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-14 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-15               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | 0.61   | 1.0 | 0.30 | ug/l  | J |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-15 (7-10)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-16         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25776.D | 1  | 12/01/20 14:06 | SO | n/a       | n/a        | V5E1188          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone <sup>b</sup>        | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | 0.64   | 1.0 | 0.31 | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 69.4   | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 0.44   | 1.0 | 0.22 | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 18.6   | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 0.90   | 1.0 | 0.22 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-15 (7-10)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-16               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | 12.8   | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 33.9   | 3.0 | 0.72 | ug/l  |   |

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

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

(b) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-15 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-17         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25802.D | 1  | 12/02/20 12:32 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 19.8   | 25  | 10   | ug/l  | J |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | 0.84   | 2.0 | 0.53 | ug/l  | J |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 0.51   | 1.0 | 0.28 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 0.47   | 1.0 | 0.36 | ug/l  | J |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-15 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-17               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

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

**Report of Analysis**

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-26 (7-10)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-18         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25787.D | 200 | 12/01/20 18:20 | SO | n/a       | n/a        | V5E1188          |
| Run #2 | 5E25811.D | 250 | 12/02/20 15:58 | SO | n/a       | n/a        | V5E1189          |

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

**VOA TCL 4.2 List**

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 5000 | 2000 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 200  | 62   | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 200  | 48   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 200  | 81   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 1000 | 400  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 400  | 110  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 200  | 71   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 200  | 40   | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 400  | 130  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 200  | 60   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 200  | 78   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 200  | 55   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 1000 | 210  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 400  | 55   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 400  | 100  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 611    | 200  | 65   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 200  | 43   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 167    | 200  | 51   | ug/l  | J |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 200  | 68   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 200  | 62   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 200  | 64   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 200  | 55   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 200  | 44   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 200  | 85   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 200  | 58   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 200  | 43   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 9090   | 200  | 71   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 200  | 96   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 2000 | 400  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 121    | 200  | 44   | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 4000 | 1000 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 1000 | 400  | ug/l  |   |

ND = Not detected      MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-26 (7-10)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-18               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result             | RL   | MDL | Units | Q |
|-----------|-------------------------------------|--------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                 | 400  | 100 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND                 | 200  | 87  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND                 | 1000 | 400 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                 | 1000 | 200 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                 | 200  | 46  | ug/l  |   |
| 100-42-5  | Styrene                             | ND                 | 200  | 44  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                 | 200  | 60  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND                 | 200  | 43  | ug/l  |   |
| 108-88-3  | Toluene                             | 3220               | 200  | 60  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                 | 400  | 100 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND                 | 200  | 50  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                 | 200  | 93  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND                 | 200  | 69  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND                 | 400  | 100 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND                 | 200  | 82  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 51400 <sup>b</sup> | 750  | 180 | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-26 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-19         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25803.D | 1  | 12/02/20 12:55 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | 1.1    | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | 1.0    | 2.0 | 0.53 | ug/l  | J |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.8    | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 8.6    | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 46.1   | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 0.48   | 1.0 | 0.22 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-26 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-19               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | 40.7   | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 235    | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 94%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-3 (7-10)     |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-20         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25789.D | 500 | 12/01/20 19:05 | SO | n/a       | n/a        | V5E1188          |
| Run #2 |           |     |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL    | MDL  | Units | Q |
|------------|-----------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                     | 260    | 500   | 160  | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 2500  | 1000 | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 1000   | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 500   | 170  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 500   | 160  | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 398    | 500   | 140  | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 500   | 110  | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 4940   | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 137    | 500   | 110  | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-3 (7-10)              | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-20               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL   | MDL  | Units | Q |
|-----------|-------------------------------------|--------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 1000 | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 500  | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 2500 | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 2500 | 500  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 500  | 110  | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 500  | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 500  | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 500  | 110  | ug/l  |   |
| 108-88-3  | Toluene                             | 25300  | 500  | 150  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 1000 | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 500  | 120  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 500  | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 269    | 500  | 170  | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 1000 | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 500  | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 39200  | 1500 | 360  | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-3 (17-20)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-21         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25812.D | 10 | 12/02/20 16:21 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 250 | 100 | ug/l  |   |
| 71-43-2    | Benzene                     | 18.5   | 10  | 3.1 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 10  | 2.4 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 10  | 4.1 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 50  | 20  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 20  | 5.3 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 10  | 3.6 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 9.3    | 10  | 2.0 | ug/l  | J |
| 75-00-3    | Chloroethane                | ND     | 20  | 6.7 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 10  | 3.0 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 10  | 3.9 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 10  | 2.8 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 50  | 10  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 20  | 2.8 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 20  | 5.0 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 5.6    | 10  | 3.2 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 10  | 2.2 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 10  | 2.6 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 10  | 3.4 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 10  | 3.1 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 10  | 3.2 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 50.2   | 10  | 2.8 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 10  | 2.2 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 10  | 4.3 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 10  | 2.9 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 10  | 2.1 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 91.6   | 10  | 3.6 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 10  | 4.8 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 100 | 20  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 10  | 2.2 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 200 | 50  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 50  | 20  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-3 (17-20)    |                                |
| <b>Lab Sample ID:</b> FA81043-21         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL | MDL | Units | Q |
|-----------|-------------------------------------|--------|----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 20 | 5.0 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 10 | 4.4 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 50 | 20  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 50 | 10  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 10 | 2.3 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 10 | 2.2 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 10 | 3.0 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 10 | 2.2 | ug/l  |   |
| 108-88-3  | Toluene                             | 479    | 10 | 3.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 20 | 5.0 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 10 | 2.5 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 10 | 4.7 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 7.2    | 10 | 3.5 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 20 | 5.0 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | 10.4   | 10 | 4.1 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 916    | 30 | 7.2 | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

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

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

**Report of Analysis**

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-6 (7-10)     | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-22         | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |                                |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|------|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 1A32333.D | 1000 | 12/01/20 18:30 | CV | n/a       | n/a        | V1A1339          |
| Run #2              |           |      |                |    |           |            |                  |

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

**VOA TCL 4.2 List**

| CAS No.    | Compound                    | Result | RL    | MDL   | Units | Q |
|------------|-----------------------------|--------|-------|-------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25000 | 10000 | ug/l  |   |
| 71-43-2    | Benzene                     | 537    | 1000  | 310   | ug/l  | J |
| 75-27-4    | Bromodichloromethane        | ND     | 1000  | 240   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1000  | 410   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5000  | 2000  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2000  | 530   | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1000  | 360   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1000  | 200   | ug/l  |   |
| 75-00-3    | Chloroethane <sup>b</sup>   | ND     | 2000  | 670   | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1000  | 300   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1000  | 390   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1000  | 280   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5000  | 1000  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2000  | 280   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2000  | 500   | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 596    | 1000  | 320   | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1000  | 220   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1000  | 260   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1000  | 340   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1000  | 310   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1000  | 320   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 7750   | 1000  | 280   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1000  | 220   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1000  | 430   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1000  | 290   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1000  | 210   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 10400  | 1000  | 360   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1000  | 480   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10000 | 2000  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1000  | 220   | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20000 | 5000  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5000  | 2000  | ug/l  |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-6 (7-10)              | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-22               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL   | MDL  | Units | Q |
|-----------|-------------------------------------|--------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 2000 | 500  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1000 | 440  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5000 | 2000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5000 | 1000 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1000 | 230  | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1000 | 220  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1000 | 300  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1000 | 220  | ug/l  |   |
| 108-88-3  | Toluene <sup>c</sup>                | 134000 | 1000 | 300  | ug/l  | E |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2000 | 500  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | 388    | 1000 | 250  | ug/l  | J |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1000 | 470  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 1750   | 1000 | 350  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>d</sup> | ND     | 2000 | 500  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1000 | 410  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 105000 | 3000 | 720  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 108%   |        | 83-118% |

(a) Results from different vials are not consistent; higher results were reported.

(b) No sample available for reanalysis. Associated Initial Calibration outside control limits (%RSD > 15%).

(c) No sample available for reanalysis.

(d) Associated ICV outside control limits high, however sample ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-6 (17-20)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-23         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25814.D | 20 | 12/02/20 17:07 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 500 | 200 | ug/l  |   |
| 71-43-2    | Benzene                     | 32.9   | 20  | 6.2 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 20  | 4.8 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 20  | 8.1 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 100 | 40  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 40  | 11  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 20  | 7.1 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 9.3    | 20  | 4.0 | ug/l  | J |
| 75-00-3    | Chloroethane                | ND     | 40  | 13  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 20  | 6.0 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 20  | 7.8 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 20  | 5.5 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 100 | 21  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 40  | 5.5 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 40  | 10  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 20  | 6.5 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 20  | 4.3 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 20  | 5.1 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 20  | 6.8 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 20  | 6.2 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 20  | 6.4 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 67.0   | 20  | 5.5 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 20  | 4.4 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 20  | 8.5 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 20  | 5.8 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 20  | 4.3 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 142    | 20  | 7.1 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 20  | 9.6 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 200 | 40  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 20  | 4.4 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 400 | 100 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 100 | 40  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-6 (17-20)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-23               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 40  | 10  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 20  | 8.7 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 100 | 40  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 100 | 20  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 20  | 4.6 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 20  | 4.4 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 20  | 6.0 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 20  | 4.3 | ug/l  |   |
| 108-88-3  | Toluene                             | 1180   | 20  | 6.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 40  | 10  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 20  | 5.0 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 20  | 9.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 12.2   | 20  | 6.9 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 40  | 10  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | 10.9   | 20  | 8.2 | ug/l  | J |
| 1330-20-7 | Xylene (total)                      | 1260   | 60  | 14  | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-7 (7-10)     |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-24         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID   | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|------|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 1A32335.D | 200  | 12/01/20 19:22 | CV | n/a       | n/a        | V1A1339          |
| Run #2 <sup>a</sup> | 5E25815.D | 1000 | 12/02/20 17:30 | SO | n/a       | n/a        | V5E1189          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result          | RL   | MDL  | Units | Q |
|------------|-----------------------------|-----------------|------|------|-------|---|
| 67-64-1    | Acetone                     | ND              | 5000 | 2000 | ug/l  |   |
| 71-43-2    | Benzene                     | 256             | 200  | 62   | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND              | 200  | 48   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND              | 200  | 81   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND              | 1000 | 400  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND              | 400  | 110  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND              | 200  | 71   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND              | 200  | 40   | ug/l  |   |
| 75-00-3    | Chloroethane                | ND <sup>b</sup> | 2000 | 670  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND              | 200  | 60   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND              | 200  | 78   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND              | 200  | 55   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND              | 1000 | 210  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND              | 400  | 55   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND              | 400  | 100  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 486             | 200  | 65   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND              | 200  | 43   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND              | 200  | 51   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND              | 200  | 68   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND              | 200  | 62   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND              | 200  | 64   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 3320            | 200  | 55   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND              | 200  | 44   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND              | 200  | 85   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND              | 200  | 58   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND              | 200  | 43   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 11000           | 200  | 71   | ug/l  |   |
| 76-13-1    | Freon 113                   | ND              | 200  | 96   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND              | 2000 | 400  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 148             | 200  | 44   | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND              | 4000 | 1000 | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND              | 1000 | 400  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-7 (7-10)              | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-24               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result              | RL   | MDL | Units | Q |
|-----------|-------------------------------------|---------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND                  | 400  | 100 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND                  | 200  | 87  | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND                  | 1000 | 400 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND                  | 1000 | 200 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND                  | 200  | 46  | ug/l  |   |
| 100-42-5  | Styrene                             | ND                  | 200  | 44  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND                  | 200  | 60  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND                  | 200  | 43  | ug/l  |   |
| 108-88-3  | Toluene                             | 63200 <sup>b</sup>  | 1000 | 300 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND                  | 400  | 100 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | 108                 | 200  | 50  | ug/l  | J |
| 79-00-5   | 1,1,2-Trichloroethane               | ND                  | 200  | 93  | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 990                 | 200  | 69  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>c</sup> | ND                  | 400  | 100 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND                  | 200  | 82  | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 129000 <sup>b</sup> | 3000 | 720 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 99%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89%    | 102%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 92%    | 100%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 109%   | 96%    | 83-118% |

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

(b) Result is from Run# 2

(c) Associated ICV outside control limits high, however sample ND.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-7 (17-20)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-25         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #1 | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25816.D | 5  | 12/02/20 17:53 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL | Units | Q |
|------------|-----------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND     | 130 | 50  | ug/l  |   |
| 71-43-2    | Benzene                     | 23.4   | 5.0 | 1.6 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 5.0 | 1.2 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 5.0 | 2.0 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 25  | 10  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 10  | 2.7 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 5.0 | 1.8 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 5.5    | 5.0 | 1.0 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 10  | 3.3 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 5.0 | 1.5 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0 | 2.0 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 5.0 | 1.4 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 25  | 5.2 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 10  | 1.4 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 10  | 2.5 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 5.8    | 5.0 | 1.6 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 5.0 | 1.1 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 5.0 | 1.3 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 5.0 | 1.7 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 5.0 | 1.6 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 5.0 | 1.6 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 16.0   | 5.0 | 1.4 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 5.0 | 1.1 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 5.0 | 2.1 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 5.0 | 1.5 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 71.4   | 5.0 | 1.8 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 5.0 | 2.4 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 50  | 10  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 1.3    | 5.0 | 1.1 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 100 | 25  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 25  | 10  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-7 (17-20)    |                                |
| <b>Lab Sample ID:</b> FA81043-25         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL | Units | Q |
|-----------|-------------------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 10  | 2.5 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 5.0 | 2.2 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 25  | 10  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 25  | 5.0 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 5.0 | 1.1 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 5.0 | 1.5 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 5.0 | 1.1 | ug/l  |   |
| 108-88-3  | Toluene                             | 227    | 5.0 | 1.5 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 10  | 2.5 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 5.0 | 1.2 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 5.0 | 2.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | 1.8    | 5.0 | 1.7 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 10  | 2.5 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | 3.0    | 5.0 | 2.0 | ug/l  | J |
| 1330-20-7 | Xylene (total)                      | 800    | 15  | 3.6 | ug/l  |   |

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

(a) Associated CCV outside of control limits high, sample was ND.

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

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-11 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-26         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25817.D | 2  | 12/02/20 18:15 | SO | n/a       | n/a        | V5E1189          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                     | 7.9    | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | 19.9   | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.8    | 2.0 | 0.65 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.2    | 2.0 | 0.51 | ug/l  | J |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 45.0   | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 77.1   | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 12.1   | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-11 (7-10)             | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-26               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | 3.1    | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                             | 16.3   | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | 4.8    | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 162    | 6.0 | 1.4  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 95%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

(a) Dilution required due to high silt content in the sample. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Associated CCV outside of control limits high, sample was ND.

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

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



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-11 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-27         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 5E25818.D | 2  | 12/02/20 18:38 | SO | n/a       | n/a        | V5E1189          |
| Run #2              |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                     | 6.2    | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 2.0 | 0.65 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 4.7    | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 0.75   | 2.0 | 0.44 | ug/l  | J |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup> | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-11 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-27               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                             | 4.8    | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>b</sup> | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | 40.9   | 6.0 | 1.4  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 101%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

(a) Dilution required due to high silt content in the sample. Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (7-10)    |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-28         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145440.D | 2  | 12/03/20 18:48 | SO | n/a       | n/a        | VC5841           |
| Run #2              |            |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                     | 2.3    | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 0.79   | 2.0 | 0.65 | ug/l  | J |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 62.1   | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 36.4   | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | 5.3    | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81043-28         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                         | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>b</sup>     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                | 1.6    | 2.0 | 0.87 | ug/l  | J |
| 75-09-2   | Methylene Chloride               | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)      | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether          | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                          | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane        | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene <sup>c</sup> | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                          | 3.8    | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene           | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane            | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane            | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane           | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                   | 6.5    | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                   | 86.3   | 6.0 | 1.4  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 108%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 102%   |        | 83-118% |

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Dilution required due to high silt content in the sample.

(b) Associated BS outside control limits.

(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-12 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81043-29         | <b>Date Sampled:</b> 11/19/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/20/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145441.D | 2  | 12/03/20 19:13 | SO | n/a       | n/a        | VC5841           |
| Run #2              |            |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 27.1   | 50  | 20   | ug/l  | J |
| 71-43-2    | Benzene                     | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 2.0 | 0.65 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 6.5    | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | 5.5    | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-12 (17-20)            | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-29               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                         | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>b</sup>     | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                | ND     | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride               | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)      | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether          | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                          | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane        | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene <sup>c</sup> | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene                          | 3.3    | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene           | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane            | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane            | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                | ND     | 2.0 | 0.69 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane           | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                   | ND     | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                   | 28.8   | 6.0 | 1.4  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 109%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   |        | 83-118% |

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Dilution required due to high silt content in the sample.

(b) Associated BS outside control limits.

(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> TRIP BLANK      |  | <b>Date Sampled:</b> 11/19/20  |
| <b>Lab Sample ID:</b> FA81043-30         |  | <b>Date Received:</b> 11/20/20 |
| <b>Matrix:</b> AQ - Trip Blank Water     |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5E25800.D | 1  | 12/02/20 11:47 | SO | n/a       | n/a        | V5E1189          |
| Run #2 |           |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 104    | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | 61.4   | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>a</sup> | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | TRIP BLANK               | <b>Date Sampled:</b>   | 11/19/20 |
| <b>Lab Sample ID:</b>    | FA81043-30               | <b>Date Received:</b>  | 11/20/20 |
| <b>Matrix:</b>           | AQ - Trip Blank Water    | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                            | Result | RL  | MDL  | Units | Q |
|-----------|-------------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                     | 5.2    | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                   | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride                  | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)         | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether             | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                             | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane           | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                 | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                             | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene              | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane               | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane               | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene                   | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane <sup>a</sup> | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                      | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)                      | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 100%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 83-118% |

(a) Associated CCV outside of control limits high, sample was ND.

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

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



Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

|   |  |  |                                    |  |  |  |  |  |  |  |
|---|--|--|------------------------------------|--|--|--|--|--|--|--|
| Send Results to:  | Contact & Company Name:<br><b>Charles Lawson<br/>Arcadis</b> | Telephone:<br><b>706-929-4421</b>                    | Preservative:<br><b>B</b>          |  |  |  |  |  |  | <b>Keys</b><br><b>Preservation Key:</b><br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: _____<br>G. Other: _____<br>H. Other: _____<br><br><b>Matrix Key:</b><br>SO - Soil<br>W - Water<br>T - Tissue<br><br>SE - Sediment<br>SL - Sludge<br>A - Air<br><br><b>Container Information Key:</b><br>1. 40 ml Vial<br>2. 1 L Amber<br>3. 250 ml Plastic<br>4. 500 ml Plastic<br>5. Encore<br>6. 2 oz. Glass<br>7. 4 oz. Glass<br>8. 8 oz. Glass<br>9. Other: _____<br>10. Other: _____<br><br>NL - NAPL/Oil<br>SW - Sample Wipe<br>Other: _____ |
|   | Address:<br><b>1450 Greene St Ste 220</b>                    | Fac:<br><b>706-929-4421</b>                          | # of Containers:<br><b>3</b>       |  |  |  |  |  |  |  |
|   | City/State/Zip:<br><b>Alexia GA 30901</b>                    | E-mail Address:<br><b>Charles.Lawson@Arcadis.com</b> | Container Information:<br><b>1</b> |  |  |  |  |  |  |  |
| <b>PARAMETER ANALYSIS &amp; METHOD</b>                                |  |  |                                    |  |  |  |  |  |  |  |
| Project Name/Location (City, State):<br><b>Brentley Charleston SC</b> | Project #:   |  |                                    |  |  |  |  |  |  |  |
| Sampler's Printed Name:<br><b>C. Lawson</b>                           | Sampler's Signature:<br><i>CB Leum</i>                       |  |                                    |  |  |  |  |  |  |  |
| <b>Sample ID</b>  | <b>Collection</b>  | <b>Type (✓)</b>                                      | <b>Matrix</b>                      |  |  |  |  |  |  |  |
|   | Date Time  | Comp Grab  |                                    |  |  |  |  |  |  |  |
| 1 A#2-5 (7-10)  | 11/19/2020 13:12   | X W  | 3                                  |  |  |  |  |  |  |  |
| 2 A#2-5 (17-20)   | 11 13:18   | X W  | 3                                  |  |  |  |  |  |  |  |
| 3 A#2-8 (7-10)  | 11 13:30   | X W  | 3                                  |  |  |  |  |  |  |  |
| 4 A#2-8 (17-20)   | 11 13:37   | X W  | 3                                  |  |  |  |  |  |  |  |
| 5 A#2-20 (7-10)   | 11 13:50   | X W  | 3                                  |  |  |  |  |  |  |  |
| 6 A#2-20 (17-20)  | 11 13:59   | X W  | 3                                  |  |  |  |  |  |  |  |
| 7 A#2-9 (7-10)  | 11 14:14   | X W  | 3                                  |  |  |  |  |  |  |  |
| 8 A#2-9 (17-20)   | 11 14:21   | X W  | 3                                  |  |  |  |  |  |  |  |
| 9 A#2-10 (7-10)   | 11 14:34   | X W  | 3                                  |  |  |  |  |  |  |  |
| 10 A#2-10 (17-20)   | 11 14:41   | X W  | 3                                  |  |  |  |  |  |  |  |
| 11 A#2-13 (7-10)  | 11 14:54   | X W  | 3                                  |  |  |  |  |  |  |  |
| 12 A#2-13 (17-20)   | 11 15:02   | X W  | 3                                  |  |  |  |  |  |  |  |
| 13 DUP #1   | 11/19/2020   |  | 3                                  |  |  |  |  |  |  |  |

1260 VOC  
 10 ml EPA5  
 Acel 406

INITIAL ASSESSMENT *JK*  
 ABE VERIFICATION *MK*

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions(✓): \_\_\_\_\_

| Laboratory Information and Receipt |  | Relinquished By                        |                                       | Received By                   |                                  | Relinquished By               |                                  | Laboratory Received By                |                                    |
|------------------------------------|--|--|---------------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|---------------------------------------|------------------------------------|
| Lab Name:<br><b>SGS</b>            | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Lawson</b> | Signature:<br><i>CB Leum</i>          | Printed Name:<br><b>Fedex</b> | Signature:<br><i>[Signature]</i> | Printed Name:<br><b>Fedex</b> | Signature:<br><i>[Signature]</i> | Printed Name:<br><b>Bryan Giraldo</b> | Signature:<br><i>[Signature]</i>   |
| Specify Turnaround Requirements:   | Sample Receipt:<br><b>3.0</b>  | Firm:<br><b>ARCADIS</b>                | Date/Time:<br><b>11/19/2020 17:30</b> | Firm/Courier:                 | Date/Time:                       | Firm/Courier:                 | Date/Time:                       | Firm:<br><b>SGS</b>                   | Date/Time:<br><b>11/20/20 9:30</b> |
| Shipping Tracking #:               | Condition/Cooler Temp:   |  |                                       |                               |                                  |                               |                                  |                                       |                                    |

20730828 CoC/AR Form 08.27.2015      Distribution:      WHITE - Laboratory returns with results      YELLOW - Lab copy      PINK - Retained by Arcadis

# ARCADIS **FA81043** CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page \_\_\_ of \_\_\_ Lab Work Order #

| Send Results to:  | Contact & Company Name:<br><b>ARCADIS</b>                          | Telephone:<br><b>706-928-4421</b> | Preservative:<br><b>B</b>              |                                    |          |  |  |  |  | <b>Preservation Key:</b><br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: _____<br>G. Other: _____<br>H. Other: _____<br><br><b>Matrix Key:</b><br>SO - Soil<br>W - Water<br>T - Tissue<br><br><b>Container Information Key:</b><br>1. 40 ml Vial<br>2. 1 L Amber<br>3. 250 ml Plastic<br>4. 500 ml Plastic<br>5. Encore<br>6. 2 oz. Glass<br>7. 4 oz. Glass<br>8. 8 oz. Glass<br>9. Other: _____<br>10. Other: _____<br><br><b>Other:</b><br>SE - Sediment NL - NAP/LOI<br>SL - Sludge SW - Sample Wipe<br>A - Air Other: _____ |          |          |          |
|---|--|-----------------------------------|--|------------------------------------|----------|--|--|--|--|--|----------|----------|----------|
|   | Address:<br><b>1450 Green St Ste 220</b>                           | Fax:                              | # of Containers:<br><b>3</b>           | Container Information:<br><b>1</b> |          |  |  |  |  |  |          |          |          |
| City:<br><b>Augusta</b>   | State:<br><b>GA</b>  | Zip:<br><b>30901</b>              | <b>PARAMETER ANALYSIS &amp; METHOD</b> |                                    |          |  |  |  |  | REMARKS  |          |          |          |
| E-mail Address:<br><b>Charles.Vincent@Arcadis.com</b>                                   | Project Name/Location (City, State):<br><b>Brenner's Charlotte</b> | Project #:<br><b>30062543</b>     |  |                                    |          |  |  |  |  |  |          |          |          |
| Sampler's Printed Name:<br><b>C. Vincent</b>  | Sampler's Designation:<br><b>CB Lem</b>                            |                                   | <i>8/20/20<br/>40 ml Amber</i>         |                                    |          |  |  |  |  |  |          |          |          |
| Sample ID   | Collection Date  | Time                              |  |                                    |          |  |  |  |  |  | Comp     | Grab     | Matrix   |
| <b>A#2-14 (7-10)</b>  | <b>11-19-20</b>  | <b>15:21</b>                      |  |                                    |          |  |  |  |  |  | <b>X</b> | <b>W</b> | <b>3</b> |
| <b>A#2-14 (17-20)</b>   | <b>11-19-20</b>  | <b>15:34</b>                      |  |                                    |          |  |  |  |  |  | <b>X</b> | <b>W</b> | <b>3</b> |
| <b>A#2-15 (7-10)</b>  | <b>11-19-20</b>  | <b>15:49</b>                      |  |                                    |          |  |  |  |  |  | <b>X</b> | <b>W</b> | <b>3</b> |
| <b>A#2-15 (17-20)</b>   | <b>11-19-20</b>  | <b>16:03</b>                      | <b>X</b>                               | <b>W</b>                           | <b>3</b> |  |  |  |  |  |          |          |          |
| Special Instructions/Comments: <input type="checkbox"/> Special QA/QC Instructions (✓): |  |                                   |  |                                    |          |  |  |  |  |  |          |          |          |

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~~INITIALS/DESIGNATURE~~  
~~ARCADIS/COMPANY~~

| Laboratory Information and Receipt                             |  | Relinquished By                         |                                      | Received By                   |                            | Relinquished By               |                            | Laboratory Received By                |                                    |
|--|--|---|--------------------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|---------------------------------------|------------------------------------|
| Lab Name:<br><b>SGS</b>  | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Vincent</b> | Signature:<br><i>Charles Vincent</i> | Printed Name:<br><b>Fedex</b> | Signature:<br><i>Fedex</i> | Printed Name:<br><b>Fedex</b> | Signature:<br><i>Fedex</i> | Printed Name:<br><b>Bryan Cigaldo</b> | Signature:<br><i>Bryan Cigaldo</i> |
| <input checked="" type="checkbox"/> Cooler packed with ice (✓) | Sample Receipt:<br>Condition/Cooler Temp: <b>3.0</b>   | Firm:<br><b>ARCADIS</b>                 | Date/Time:<br><b>11/19/20 17:30</b>  | Firm/Courier:                 | Date/Time:                 | Firm/Courier:                 | Date/Time:                 | Firm:<br><b>SGS</b>                   | Date/Time:<br><b>11/20/20 9:30</b> |
| Specify Turnaround Requirements:                               |  |   |                                      |                               |                            |                               |                            |                                       |                                    |
| Shipping Tracking #:   |  |   |                                      |                               |                            |                               |                            |                                       |                                    |

20730626 CoC AR Form 08.27.2015 Distribution: WHITE - Laboratory returns with results YELLOW - Lab copy PINK - Retained by Arcadis

|                  |  |  |  |                        |
|------------------|--|--|--|------------------------|
| Send Results to: | Contact & Company Name:<br><b>CHARLES LAWSON<br/>ARCADIS</b> | Telephone:<br><b>706-829-4421</b>                    | Preservative:<br><b>B</b>              | Filtered (-):          |
|                  | Address:<br><b>1450 Greene St Ste 220</b>                    | Fax:   | # of Containers:<br><b>3</b>           | Container Information: |
|                  | City/State/Zip:<br><b>Augusta GA 30901</b>                   | E-mail Address:<br><b>Charles.Lawson@Arcadis.com</b> | <b>PARAMETER ANALYSIS &amp; METHOD</b> |                        |

- Keys**
- Preservation Key:**  
 A. H<sub>2</sub>SO<sub>4</sub>  
 B. HCL  
 C. HNO<sub>3</sub>  
 D. NaOH  
 E. None  
 F. Other: \_\_\_\_\_  
 G. Other: \_\_\_\_\_  
 H. Other: \_\_\_\_\_
- Container Information Key:**  
 1. 40 ml Vial  
 2. 1 L Amber  
 3. 250 ml Plastic  
 4. 500 ml Plastic  
 5. Encore  
 6. 2 oz. Glass  
 7. 4 oz. Glass  
 8. 8 oz. Glass  
 9. Other: \_\_\_\_\_  
 10. Other: \_\_\_\_\_
- Matrix Key:**  
 SO - Soil  
 W - Water  
 T - Tissue  
 SE - Sediment  
 SL - Sludge  
 A - Air  
 NL - NAPL/Oil  
 SW - Sample Wipe  
 Other: \_\_\_\_\_

| Sample ID         | Collection |       | Type (✓) |      | Matrix | REMARKS   |
|-------------------|------------|-------|----------|------|--------|---|
|                   | Date       | Time  | Comp     | Grab |        |   |
| 18 A#2-26 (7-10)  | 11/19/20   | 9:09  | X        | W    | 3      | <p style="text-align: center;"><del>ARCADIS</del></p> <p style="text-align: center;"><del>ARCADIS</del></p> |
| 19 A#2-26 (17-20) | 11/19/20   | 10:04 | X        | W    | 3      |   |
| 20 A#2-3 (7-10)   | 11         | 10:20 | X        | W    | 3      |   |
| 21 A#2-3 (17-20)  | 11         | 10:32 | X        | W    | 3      |   |
| 22 A#2-6 (7-10)   | 11         | 10:45 | X        | W    | 3      |   |
| 23 A#2-6 (17-20)  | 11         | 10:54 | X        | W    | 3      |   |
| 24 A#2-7 (7-10)   | 11         | 11:09 | X        | W    | 3      |   |
| 25 A#2-7 (17-20)  | 11         | 11:17 | X        | W    | 3      |   |
| 26 A#2-11 (7-10)  | 11         | 11:36 | X        | W    | 3      |   |
| 27 A#2-11 (17-20) | 11         | 11:44 | X        | W    | 3      |   |
| 28 A#2-12 (7-10)  | 11         | 11:58 | X        | W    | 3      |   |
| 29 A#2-12 (17-20) | 11         | 12:21 | X        | W    | 3      |   |
| 30 TRIP Blank     |            |       |          |      | 3      |   |

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Special Instructions/Comments:  Special QA/QC Instructions (-):

| Laboratory Information and Receipt |  | Relinquished By  | Received By                                 | Relinquished By                             | Laboratory Received By  |
|------------------------------------|--|--|---|---|---|
| Lab Name:<br><b>SGS</b>            | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name:<br><b>Charles Lawson</b><br>Signature:<br><b>CB Jensen</b> | Printed Name:<br><b>Fedex</b><br>Signature: | Printed Name:<br><b>Fedex</b><br>Signature: | Printed Name:<br><b>Bryon Girardo</b><br>Signature:<br><b>BM Jensen</b> |
| Specify Turnaround Requirements:   | Sample Receipt:  | Firm:<br><b>ARCADIS</b>  | Firm/Courier:                               | Firm/Courier:                               | Firm:<br><b>SGS</b>   |
| Shipping Tracking #:               | Condition/Cooler Temp: <b>3.0</b>  | Date/Time:<br><b>11/19/2020 1730</b>                                     | Date/Time:                                  | Date/Time:                                  | Date/Time:<br><b>11/20/20 930</b>                                       |

20730828 CoC AR Form 08.27.2015 Distribution: WHITE - Laboratory returns with results YELLOW - Lab copy PINK - Retained by Arcadis

## SGS Sample Receipt Summary

Job Number: FA81043

Client: ARCADIS

Project: BRENNTAG

Date / Time Received: 11/20/2020 9:30:00 AM

Delivery Method: 923153807097

Airbill #'s: FX

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Sample Information**

Y or N N/A

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

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: JENNAK

Date: 11/20/2020 9:30:00 A

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

FA81043: Chain of Custody

Page 4 of 4

4.1  
4

## MS Volatiles

### QC Data Summaries

---

Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1188-MB | 5E25769.D | 1  | 12/01/20 | SO | n/a       | n/a        | V5E1188          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-2, FA81043-3, FA81043-6, FA81043-7, FA81043-8, FA81043-10, FA81043-11, FA81043-12, FA81043-13, FA81043-16, FA81043-18, FA81043-20

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1188-MB | 5E25769.D | 1  | 12/01/20 | SO | n/a       | n/a        | V5E1188          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-2, FA81043-3, FA81043-6, FA81043-7, FA81043-8, FA81043-10, FA81043-11, FA81043-12, FA81043-13, FA81043-16, FA81043-18, FA81043-20

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

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



## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1A1339-MB | 1A32319.D | 1  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-22, FA81043-24

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1A1339-MB | 1A32319.D | 1  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-22, FA81043-24

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 108%   | 83-118% |

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1189-MB | 5E25799.D | 1  | 12/02/20 | SO | n/a       | n/a        | V5E1189          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-1, FA81043-3, FA81043-4, FA81043-5, FA81043-7, FA81043-9, FA81043-14, FA81043-15, FA81043-17, FA81043-18, FA81043-19, FA81043-21, FA81043-23, FA81043-24, FA81043-25, FA81043-26, FA81043-27, FA81043-30

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1189-MB | 5E25799.D | 1  | 12/02/20 | SO | n/a       | n/a        | V5E1189          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-1, FA81043-3, FA81043-4, FA81043-5, FA81043-7, FA81043-9, FA81043-14, FA81043-15, FA81043-17, FA81043-18, FA81043-19, FA81043-21, FA81043-23, FA81043-24, FA81043-25, FA81043-26, FA81043-27, FA81043-30

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

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

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5841-MB | C0145422.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-28, FA81043-29

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5841-MB | C0145422.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-28, FA81043-29

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 95% 83-118%  |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% 79-125% |
| 2037-26-5  | Toluene-D8            | 109% 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103% 83-118% |

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1188-BS | 5E25766.D | 1  | 12/01/20 | SO | n/a       | n/a        | V5E1188          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-2, FA81043-3, FA81043-6, FA81043-7, FA81043-8, FA81043-10, FA81043-11, FA81043-12, FA81043-13, FA81043-16, FA81043-18, FA81043-20

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 150      | 120   | 50-147 |
| 71-43-2    | Benzene                     | 25         | 25.7     | 103   | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 25.1     | 100   | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 23.4     | 94    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 124      | 99    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 23.6     | 94    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 27.1     | 108   | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 23.8     | 95    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 24.7     | 99    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 26.2     | 105   | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 24.9     | 100   | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 23.2     | 93    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 24.2     | 97    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 22.2     | 89    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 21.7     | 87    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 22.7     | 91    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 23.1     | 92    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 23.5     | 94    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 26.9     | 108   | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 24.6     | 98    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 27.5     | 110   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 24.9     | 100   | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 26.2     | 105   | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 24.1     | 96    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 22.6     | 90    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 23.5     | 94    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 23.7     | 95    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 24.1     | 96    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 116      | 93    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 22.8     | 91    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 146      | 117   | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 24.8     | 99    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 24.3     | 97    | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 26.7     | 107   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 23.9     | 96    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 117      | 94    | 66-122 |

\* = Outside of Control Limits.

5.2.1  
5

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1188-BS | 5E25766.D | 1  | 12/01/20 | SO | n/a       | n/a        | V5E1188          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-2, FA81043-3, FA81043-6, FA81043-7, FA81043-8, FA81043-10, FA81043-11, FA81043-12, FA81043-13, FA81043-16, FA81043-18, FA81043-20

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 22.4     | 90    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 22.1     | 88    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 24.2     | 97    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 24.7     | 99    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 22.6     | 90    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 26.5     | 106   | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 26.3     | 105   | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 23.2     | 93    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 25.1     | 100   | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 29.5     | 118   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 26.0     | 104   | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 69.2     | 92    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%  | 83-118% |

\* = Outside of Control Limits.



# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1A1339-BS | 1A32317.D | 1  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-22, FA81043-24

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 111      | 89    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 25.0     | 100   | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 25.8     | 103   | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 20.7     | 83    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 115      | 92    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 25.1     | 100   | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 27.1     | 108   | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 23.2     | 93    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 26.9     | 108   | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 25.6     | 102   | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 28.0     | 112   | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 23.6     | 94    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 18.1     | 72    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 22.0     | 88    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 25.2     | 101   | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 20.9     | 84    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 21.8     | 87    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 21.2     | 85    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 27.2     | 109   | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 24.1     | 96    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 27.7     | 111   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 26.0     | 104   | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 26.6     | 106   | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 24.9     | 100   | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 23.5     | 94    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 23.5     | 94    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 23.8     | 95    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 25.2     | 101   | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 114      | 91    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 23.7     | 95    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 124      | 99    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 25.5     | 102   | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 27.3     | 109   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 27.6     | 110   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 26.2     | 105   | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 113      | 90    | 66-122 |

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1A1339-BS | 1A32317.D | 1  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-22, FA81043-24

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 24.0     | 96    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 22.9     | 92    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 20.4     | 82    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 24.4     | 98    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 22.5     | 90    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 19.8     | 79    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 26.1     | 104   | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 23.1     | 92    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 23.8     | 95    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 29.8     | 119   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 26.1     | 104   | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 71.0     | 95    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 79-125% |
| 2037-26-5  | Toluene-D8            | 99%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 83-118% |

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1189-BS | 5E25796.D | 1  | 12/02/20 | SO | n/a       | n/a        | V5E1189          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-1, FA81043-3, FA81043-4, FA81043-5, FA81043-7, FA81043-9, FA81043-14, FA81043-15, FA81043-17, FA81043-18, FA81043-19, FA81043-21, FA81043-23, FA81043-24, FA81043-25, FA81043-26, FA81043-27, FA81043-30

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 115      | 92    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 23.9     | 96    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 23.3     | 93    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 21.8     | 87    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 117      | 94    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 22.3     | 89    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 25.6     | 102   | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 22.2     | 89    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 24.8     | 99    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 24.5     | 98    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 23.1     | 92    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 22.1     | 88    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 22.3     | 89    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 20.8     | 83    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 21.9     | 88    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 21.0     | 84    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 21.6     | 86    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 21.9     | 88    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 25.0     | 100   | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 23.2     | 93    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 25.9     | 104   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 23.4     | 94    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 24.8     | 99    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 22.7     | 91    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 21.5     | 86    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 22.2     | 89    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 22.1     | 88    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 22.3     | 89    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 114      | 91    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 21.2     | 85    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 131      | 105   | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 26.7     | 107   | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 24.5     | 98    | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 24.8     | 99    | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 22.5     | 90    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 114      | 91    | 66-122 |

\* = Outside of Control Limits.

5.2.3  
5

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5E1189-BS | 5E25796.D | 1  | 12/02/20 | SO | n/a       | n/a        | V5E1189          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-1, FA81043-3, FA81043-4, FA81043-5, FA81043-7, FA81043-9, FA81043-14, FA81043-15, FA81043-17, FA81043-18, FA81043-19, FA81043-21, FA81043-23, FA81043-24, FA81043-25, FA81043-26, FA81043-27, FA81043-30

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 21.1     | 84    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 20.5     | 82    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 22.4     | 90    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 23.4     | 94    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 21.1     | 84    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 25.7     | 103   | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 24.5     | 98    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 21.8     | 87    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 23.4     | 94    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 30.2     | 121   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 26.4     | 106   | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 64.0     | 85    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 83-118% |

\* = Outside of Control Limits.

5.2.3  
5

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5841-BS | C0145420.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-28, FA81043-29

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 101      | 81    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 22.6     | 90    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 23.1     | 92    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 24.7     | 99    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 109      | 87    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 21.1     | 84    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 24.8     | 99    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 25.0     | 100   | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 21.0     | 84    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 22.7     | 91    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 23.2     | 93    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 26.0     | 104   | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 26.3     | 105   | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 23.5     | 94    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 20.0     | 80    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 25.3     | 101   | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 26.1     | 104   | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 24.8     | 99    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 23.9     | 96    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 21.3     | 85    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 24.8     | 99    | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 22.3     | 89    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 24.4     | 98    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 22.1     | 88    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 21.1     | 84    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 25.9     | 104   | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 26.0     | 104   | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 20.5     | 82    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 134      | 107   | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 26.4     | 106   | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 107      | 86    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 18.0     | 72    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 10.4     | 42*   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 24.2     | 97    | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 19.5     | 78    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 137      | 110   | 66-122 |

\* = Outside of Control Limits.

5.2.4  
5

# Blank Spike Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5841-BS | C0145420.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-28, FA81043-29

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 20.7     | 83    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 25.5     | 102   | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 25.9     | 104   | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 27.6     | 110   | 76-135 |
| 108-88-3  | Toluene                   | 25         | 25.5     | 102   | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 24.7     | 99    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 24.1     | 96    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 24.7     | 99    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 21.7     | 87    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 22.3     | 89    | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 21.2     | 85    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 78.8     | 105   | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%  | 79-125% |
| 2037-26-5  | Toluene-D8            | 109% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104% | 83-118% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA81100-7MS  | 1A32329.D | 5  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |
| FA81100-7MSD | 1A32330.D | 5  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |
| FA81100-7    | 1A32326.D | 5  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-22, FA81043-24

| CAS No.    | Compound                    | FA81100-7<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                | 625                | 464        | 74      | 625           | 470         | 75       | 1   | 50-147/21         |
| 71-43-2    | Benzene                     | ND                | 125                | 123        | 98      | 125           | 122         | 98       | 1   | 81-122/14         |
| 75-27-4    | Bromodichloromethane        | ND                | 125                | 123        | 98      | 125           | 124         | 99       | 1   | 79-123/19         |
| 75-25-2    | Bromoform                   | ND                | 125                | 98.9       | 79      | 125           | 101         | 81       | 2   | 66-123/21         |
| 78-93-3    | 2-Butanone (MEK)            | ND                | 625                | 481        | 77      | 625           | 490         | 78       | 2   | 56-143/18         |
| 75-15-0    | Carbon Disulfide            | ND                | 125                | 119        | 95      | 125           | 121         | 97       | 2   | 66-148/23         |
| 56-23-5    | Carbon Tetrachloride        | ND                | 125                | 134        | 107     | 125           | 136         | 109      | 1   | 76-136/23         |
| 108-90-7   | Chlorobenzene               | ND                | 125                | 118        | 94      | 125           | 118         | 94       | 0   | 82-124/14         |
| 75-00-3    | Chloroethane                | ND                | 125                | 135        | 108     | 125           | 131         | 105      | 3   | 62-144/20         |
| 67-66-3    | Chloroform                  | ND                | 125                | 124        | 99      | 125           | 125         | 100      | 1   | 80-124/15         |
| 110-82-7   | Cyclohexane                 | ND                | 125                | 133        | 106     | 125           | 134         | 107      | 1   | 73-138/18         |
| 124-48-1   | Dibromochloromethane        | ND                | 125                | 113        | 90      | 125           | 116         | 93       | 3   | 78-122/19         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                | 125                | 122        | 98      | 125           | 126         | 101      | 3   | 64-123/18         |
| 106-93-4   | 1,2-Dibromoethane           | ND                | 125                | 109        | 87      | 125           | 110         | 88       | 1   | 75-120/13         |
| 75-71-8    | Dichlorodifluoromethane     | ND                | 125                | 130        | 104     | 125           | 128         | 102      | 2   | 42-167/19         |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                | 125                | 115        | 92      | 125           | 115         | 92       | 0   | 82-124/14         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                | 125                | 117        | 94      | 125           | 118         | 94       | 1   | 84-125/14         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                | 125                | 112        | 90      | 125           | 110         | 88       | 2   | 78-120/15         |
| 75-34-3    | 1,1-Dichloroethane          | ND                | 125                | 128        | 102     | 125           | 129         | 103      | 1   | 81-122/15         |
| 107-06-2   | 1,2-Dichloroethane          | ND                | 125                | 113        | 90      | 125           | 112         | 90       | 1   | 75-125/14         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                | 125                | 132        | 106     | 125           | 131         | 105      | 1   | 78-137/18         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                | 125                | 130        | 104     | 125           | 132         | 106      | 2   | 78-120/15         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                | 125                | 125        | 100     | 125           | 125         | 100      | 0   | 76-127/17         |
| 78-87-5    | 1,2-Dichloropropane         | ND                | 125                | 120        | 96      | 125           | 121         | 97       | 1   | 76-124/14         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                | 125                | 110        | 88      | 125           | 110         | 88       | 0   | 75-118/23         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                | 125                | 110        | 88      | 125           | 110         | 88       | 0   | 80-120/22         |
| 100-41-4   | Ethylbenzene                | 87.8              | 125                | 203        | 92      | 125           | 199         | 89       | 2   | 81-121/14         |
| 76-13-1    | Freon 113                   | ND                | 125                | 123        | 98      | 125           | 124         | 99       | 1   | 72-134/20         |
| 591-78-6   | 2-Hexanone                  | ND                | 625                | 487        | 78      | 625           | 450         | 72       | 8   | 61-129/18         |
| 98-82-8    | Isopropylbenzene            | 9.2               | 125                | 133        | 99      | 125           | 130         | 97       | 2   | 83-132/15         |
| 79-20-9    | Methyl Acetate              | ND                | 625                | 516        | 83      | 625           | 516         | 83       | 0   | 65-126/18         |
| 74-83-9    | Methyl Bromide              | ND                | 125                | 114        | 91      | 125           | 137         | 110      | 18  | 59-143/19         |
| 74-87-3    | Methyl Chloride             | ND                | 125                | 133        | 106     | 125           | 131         | 105      | 2   | 50-159/19         |
| 108-87-2   | Methylcyclohexane           | ND                | 125                | 139        | 111     | 125           | 138         | 110      | 1   | 76-129/17         |
| 75-09-2    | Methylene Chloride          | ND                | 125                | 118        | 94      | 125           | 117         | 94       | 1   | 69-135/16         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                | 625                | 489        | 78      | 625           | 487         | 78       | 0   | 66-122/16         |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| FA81100-7MS  | 1A32329.D | 5  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |
| FA81100-7MSD | 1A32330.D | 5  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |
| FA81100-7    | 1A32326.D | 5  | 12/01/20 | CV | n/a       | n/a        | V1A1339          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-22, FA81043-24

| CAS No.   | Compound                  | FA81100-7<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                | 125                | 114        | 91      | 125           | 116         | 93       | 2   | 72-117/14         |
| 100-42-5  | Styrene                   | 30.0              | 125                | 156        | 101     | 125           | 155         | 100      | 1   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                | 125                | 97.9       | 78      | 125           | 97.9        | 78       | 0   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                | 125                | 124        | 99      | 125           | 125         | 100      | 1   | 76-135/16         |
| 108-88-3  | Toluene                   | 61.4              | 125                | 167        | 84      | 125           | 166         | 84       | 1   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                | 125                | 124        | 99      | 125           | 125         | 100      | 1   | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                | 125                | 129        | 103     | 125           | 130         | 104      | 1   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                | 125                | 111        | 89      | 125           | 110         | 88       | 1   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | ND                | 125                | 120        | 96      | 125           | 119         | 95       | 1   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | ND                | 125                | 146        | 117     | 125           | 146         | 117      | 0   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                | 125                | 150        | 120     | 125           | 148         | 118      | 1   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 273               | 375                | 614        | 91      | 375           | 609         | 90       | 1   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81100-7 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 104% | 103%      | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%  | 98%  | 94%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 97%  | 98%  | 100%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%  | 100% | 90%       | 83-118% |

\* = Outside of Control Limits.

5.3.1  
5



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID   | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|-----|----------|----|-----------|------------|------------------|
| FA81043-1MS            | 5E25790.D | 500 | 12/01/20 | SO | n/a       | n/a        | V5E1188          |
| FA81043-1MSD           | 5E25791.D | 500 | 12/01/20 | SO | n/a       | n/a        | V5E1188          |
| FA81043-1 <sup>a</sup> | 5E25777.D | 500 | 12/01/20 | SO | n/a       | n/a        | V5E1188          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-2, FA81043-3, FA81043-6, FA81043-7, FA81043-8, FA81043-10, FA81043-11, FA81043-12, FA81043-13, FA81043-16, FA81043-18, FA81043-20

| CAS No.    | Compound                    | FA81043-1<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|-----------|
| 67-64-1    | Acetone                     | ND                |                    | 62500      | 45500   | 73            | 62500       | 44300    | 71  | 3                 | 50-147/21 |
| 71-43-2    | Benzene                     | ND                |                    | 12500      | 13400   | 107           | 12500       | 13100    | 105 | 2                 | 81-122/14 |
| 75-27-4    | Bromodichloromethane        | ND                |                    | 12500      | 12700   | 102           | 12500       | 12600    | 101 | 1                 | 79-123/19 |
| 75-25-2    | Bromoform                   | ND                |                    | 12500      | 11300   | 90            | 12500       | 11300    | 90  | 0                 | 66-123/21 |
| 78-93-3    | 2-Butanone (MEK)            | ND                |                    | 62500      | 60400   | 97            | 62500       | 59100    | 95  | 2                 | 56-143/18 |
| 75-15-0    | Carbon Disulfide            | ND                |                    | 12500      | 12000   | 96            | 12500       | 12000    | 96  | 0                 | 66-148/23 |
| 56-23-5    | Carbon Tetrachloride        | ND                |                    | 12500      | 13700   | 110           | 12500       | 13500    | 108 | 1                 | 76-136/23 |
| 108-90-7   | Chlorobenzene               | ND                |                    | 12500      | 12100   | 97            | 12500       | 11900    | 95  | 2                 | 82-124/14 |
| 75-00-3    | Chloroethane                | ND                |                    | 12500      | 14100   | 113           | 12500       | 14300    | 114 | 1                 | 62-144/20 |
| 67-66-3    | Chloroform                  | ND                |                    | 12500      | 13300   | 106           | 12500       | 13100    | 105 | 2                 | 80-124/15 |
| 110-82-7   | Cyclohexane                 | ND                |                    | 12500      | 12500   | 100           | 12500       | 12400    | 99  | 1                 | 73-138/18 |
| 124-48-1   | Dibromochloromethane        | ND                |                    | 12500      | 11500   | 92            | 12500       | 11500    | 92  | 0                 | 78-122/19 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                |                    | 12500      | 11200   | 90            | 12500       | 11000    | 88  | 2                 | 64-123/18 |
| 106-93-4   | 1,2-Dibromoethane           | ND                |                    | 12500      | 11100   | 89            | 12500       | 11200    | 90  | 1                 | 75-120/13 |
| 75-71-8    | Dichlorodifluoromethane     | ND                |                    | 12500      | 11600   | 93            | 12500       | 11400    | 91  | 2                 | 42-167/19 |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                |                    | 12500      | 11300   | 90            | 12500       | 11300    | 90  | 0                 | 82-124/14 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                |                    | 12500      | 11500   | 92            | 12500       | 11500    | 92  | 0                 | 84-125/14 |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                |                    | 12500      | 11900   | 95            | 12500       | 11700    | 94  | 2                 | 78-120/15 |
| 75-34-3    | 1,1-Dichloroethane          | ND                |                    | 12500      | 13700   | 110           | 12500       | 13600    | 109 | 1                 | 81-122/15 |
| 107-06-2   | 1,2-Dichloroethane          | ND                |                    | 12500      | 12600   | 101           | 12500       | 12400    | 99  | 2                 | 75-125/14 |
| 75-35-4    | 1,1-Dichloroethylene        | ND                |                    | 12500      | 13600   | 109           | 12500       | 13800    | 110 | 1                 | 78-137/18 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 335               | J                  | 12500      | 13000   | 101           | 12500       | 13000    | 101 | 0                 | 78-120/15 |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                |                    | 12500      | 13200   | 106           | 12500       | 13300    | 106 | 1                 | 76-127/17 |
| 78-87-5    | 1,2-Dichloropropane         | ND                |                    | 12500      | 12200   | 98            | 12500       | 12100    | 97  | 1                 | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                |                    | 12500      | 11400   | 91            | 12500       | 11300    | 90  | 1                 | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                |                    | 12500      | 11800   | 94            | 12500       | 11600    | 93  | 2                 | 80-120/22 |
| 100-41-4   | Ethylbenzene                | 1950              |                    | 12500      | 14200   | 98            | 12500       | 13900    | 96  | 2                 | 81-121/14 |
| 76-13-1    | Freon 113                   | ND                |                    | 12500      | 11800   | 94            | 12500       | 11600    | 93  | 2                 | 72-134/20 |
| 591-78-6   | 2-Hexanone                  | ND                |                    | 62500      | 63000   | 101           | 62500       | 62500    | 100 | 1                 | 61-129/18 |
| 98-82-8    | Isopropylbenzene            | ND                |                    | 12500      | 11200   | 90            | 12500       | 11200    | 90  | 0                 | 83-132/15 |
| 79-20-9    | Methyl Acetate              | ND                |                    | 62500      | 67100   | 107           | 62500       | 67300    | 108 | 0                 | 65-126/18 |
| 74-83-9    | Methyl Bromide              | ND                |                    | 12500      | 15600   | 125           | 12500       | 15500    | 124 | 1                 | 59-143/19 |
| 74-87-3    | Methyl Chloride             | ND                |                    | 12500      | 13600   | 109           | 12500       | 13600    | 109 | 0                 | 50-159/19 |
| 108-87-2   | Methylcyclohexane           | ND                |                    | 12500      | 13100   | 105           | 12500       | 12900    | 103 | 2                 | 76-129/17 |
| 75-09-2    | Methylene Chloride          | ND                |                    | 12500      | 12000   | 96            | 12500       | 12000    | 96  | 0                 | 69-135/16 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                |                    | 62500      | 61900   | 99            | 62500       | 61600    | 99  | 0                 | 66-122/16 |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID   | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|-----|----------|----|-----------|------------|------------------|
| FA81043-1MS            | 5E25790.D | 500 | 12/01/20 | SO | n/a       | n/a        | V5E1188          |
| FA81043-1MSD           | 5E25791.D | 500 | 12/01/20 | SO | n/a       | n/a        | V5E1188          |
| FA81043-1 <sup>a</sup> | 5E25777.D | 500 | 12/01/20 | SO | n/a       | n/a        | V5E1188          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-2, FA81043-3, FA81043-6, FA81043-7, FA81043-8, FA81043-10, FA81043-11, FA81043-12, FA81043-13, FA81043-16, FA81043-18, FA81043-20

| CAS No.   | Compound                  | FA81043-1<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                | 12500              | 10700      | 86      | 12500         | 10900       | 87       | 2   | 72-117/14         |
| 100-42-5  | Styrene                   | ND                | 12500              | 11000      | 88      | 12500         | 10800       | 86       | 2   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                | 12500              | 12200      | 98      | 12500         | 12000       | 96       | 2   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                | 12500              | 13000      | 104     | 12500         | 12800       | 102      | 2   | 76-135/16         |
| 108-88-3  | Toluene                   | 13400             | 12500              | 24700      | 90      | 12500         | 24200       | 86       | 2   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                | 12500              | 12300      | 98      | 12500         | 11500       | 92       | 7   | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                | 12500              | 13300      | 106     | 12500         | 13100       | 105      | 2   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                | 12500              | 11900      | 95      | 12500         | 11700       | 94       | 2   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | ND                | 12500              | 13000      | 104     | 12500         | 12800       | 102      | 2   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | ND                | 12500              | 16900      | 135     | 12500         | 16500       | 132      | 2   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                | 12500              | 14200      | 114     | 12500         | 14300       | 114      | 1   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 16900             | 37500              | 53000      | 96      | 37500         | 52900       | 96       | 0   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81043-1 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 101% | 99%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 102% | 102%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 96%  | 96%  | 101%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%  | 93%  | 99%       | 83-118% |

(a) Confirmation run.

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|-----|----------|----|-----------|------------|------------------|
| FA81043-1MS  | 5E25820.D | 200 | 12/02/20 | SO | n/a       | n/a        | V5E1189          |
| FA81043-1MSD | 5E25821.D | 200 | 12/02/20 | SO | n/a       | n/a        | V5E1189          |
| FA81043-1    | 5E25804.D | 200 | 12/02/20 | SO | n/a       | n/a        | V5E1189          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-1, FA81043-3, FA81043-4, FA81043-5, FA81043-7, FA81043-9, FA81043-14, FA81043-15, FA81043-17, FA81043-18, FA81043-19, FA81043-21, FA81043-23, FA81043-24, FA81043-25, FA81043-26, FA81043-27, FA81043-30

| CAS No.    | Compound                    | FA81043-1<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|-----------|
| 67-64-1    | Acetone                     | ND                |                    | 25000      | 20000   | 80            | 25000       | 20200    | 81  | 1                 | 50-147/21 |
| 71-43-2    | Benzene                     | 120               | J                  | 5000       | 5370    | 105           | 5000        | 5420     | 106 | 1                 | 81-122/14 |
| 75-27-4    | Bromodichloromethane        | ND                |                    | 5000       | 4930    | 99            | 5000        | 5080     | 102 | 3                 | 79-123/19 |
| 75-25-2    | Bromoform                   | ND                |                    | 5000       | 4250    | 85            | 5000        | 4530     | 91  | 6                 | 66-123/21 |
| 78-93-3    | 2-Butanone (MEK)            | ND                |                    | 25000      | 22900   | 92            | 25000       | 23800    | 95  | 4                 | 56-143/18 |
| 75-15-0    | Carbon Disulfide            | ND                |                    | 5000       | 4580    | 92            | 5000        | 4750     | 95  | 4                 | 66-148/23 |
| 56-23-5    | Carbon Tetrachloride        | ND                |                    | 5000       | 5300    | 106           | 5000        | 5480     | 110 | 3                 | 76-136/23 |
| 108-90-7   | Chlorobenzene               | ND                |                    | 5000       | 4730    | 95            | 5000        | 4830     | 97  | 2                 | 82-124/14 |
| 75-00-3    | Chloroethane                | ND                |                    | 5000       | 5540    | 111           | 5000        | 5380     | 108 | 3                 | 62-144/20 |
| 67-66-3    | Chloroform                  | ND                |                    | 5000       | 5240    | 105           | 5000        | 5330     | 107 | 2                 | 80-124/15 |
| 110-82-7   | Cyclohexane                 | ND                |                    | 5000       | 4910    | 98            | 5000        | 4990     | 100 | 2                 | 73-138/18 |
| 124-48-1   | Dibromochloromethane        | ND                |                    | 5000       | 4330    | 87            | 5000        | 4620     | 92  | 6                 | 78-122/19 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                |                    | 5000       | 4260    | 85            | 5000        | 4620     | 92  | 8                 | 64-123/18 |
| 106-93-4   | 1,2-Dibromoethane           | ND                |                    | 5000       | 4210    | 84            | 5000        | 4410     | 88  | 5                 | 75-120/13 |
| 75-71-8    | Dichlorodifluoromethane     | ND                |                    | 5000       | 4420    | 88            | 5000        | 4450     | 89  | 1                 | 42-167/19 |
| 95-50-1    | 1,2-Dichlorobenzene         | 156               | J                  | 5000       | 4590    | 89            | 5000        | 4680     | 90  | 2                 | 82-124/14 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                |                    | 5000       | 4490    | 90            | 5000        | 4640     | 93  | 3                 | 84-125/14 |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                |                    | 5000       | 4610    | 92            | 5000        | 4740     | 95  | 3                 | 78-120/15 |
| 75-34-3    | 1,1-Dichloroethane          | ND                |                    | 5000       | 5470    | 109           | 5000        | 5520     | 110 | 1                 | 81-122/15 |
| 107-06-2   | 1,2-Dichloroethane          | ND                |                    | 5000       | 4910    | 98            | 5000        | 5030     | 101 | 2                 | 75-125/14 |
| 75-35-4    | 1,1-Dichloroethylene        | ND                |                    | 5000       | 5330    | 107           | 5000        | 5460     | 109 | 2                 | 78-137/18 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 419               |                    | 5000       | 5440    | 100           | 5000        | 5580     | 103 | 3                 | 78-120/15 |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                |                    | 5000       | 5260    | 105           | 5000        | 5300     | 106 | 1                 | 76-127/17 |
| 78-87-5    | 1,2-Dichloropropane         | ND                |                    | 5000       | 4750    | 95            | 5000        | 4850     | 97  | 2                 | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                |                    | 5000       | 4390    | 88            | 5000        | 4500     | 90  | 2                 | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                |                    | 5000       | 4430    | 89            | 5000        | 4620     | 92  | 4                 | 80-120/22 |
| 100-41-4   | Ethylbenzene                | 2660              |                    | 5000       | 7370    | 94            | 5000        | 7500     | 97  | 2                 | 81-121/14 |
| 76-13-1    | Freon 113                   | ND                |                    | 5000       | 4610    | 92            | 5000        | 4700     | 94  | 2                 | 72-134/20 |
| 591-78-6   | 2-Hexanone                  | ND                |                    | 25000      | 23800   | 95            | 25000       | 24200    | 97  | 2                 | 61-129/18 |
| 98-82-8    | Isopropylbenzene            | ND                |                    | 5000       | 4360    | 87            | 5000        | 4520     | 90  | 4                 | 83-132/15 |
| 79-20-9    | Methyl Acetate              | ND                |                    | 25000      | 26500   | 106           | 25000       | 27100    | 108 | 2                 | 65-126/18 |
| 74-83-9    | Methyl Bromide              | ND                |                    | 5000       | 6240    | 125           | 5000        | 6030     | 121 | 3                 | 59-143/19 |
| 74-87-3    | Methyl Chloride             | ND                |                    | 5000       | 5250    | 105           | 5000        | 5110     | 102 | 3                 | 50-159/19 |
| 108-87-2   | Methylcyclohexane           | ND                |                    | 5000       | 5070    | 101           | 5000        | 5230     | 105 | 3                 | 76-129/17 |
| 75-09-2    | Methylene Chloride          | ND                |                    | 5000       | 4840    | 97            | 5000        | 4920     | 98  | 2                 | 69-135/16 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                |                    | 25000      | 23300   | 93            | 25000       | 23700    | 95  | 2                 | 66-122/16 |

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID   | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|-----|----------|----|-----------|------------|------------------|
| FA81043-1MS  | 5E25820.D | 200 | 12/02/20 | SO | n/a       | n/a        | V5E1189          |
| FA81043-1MSD | 5E25821.D | 200 | 12/02/20 | SO | n/a       | n/a        | V5E1189          |
| FA81043-1    | 5E25804.D | 200 | 12/02/20 | SO | n/a       | n/a        | V5E1189          |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-1, FA81043-3, FA81043-4, FA81043-5, FA81043-7, FA81043-9, FA81043-14, FA81043-15, FA81043-17, FA81043-18, FA81043-19, FA81043-21, FA81043-23, FA81043-24, FA81043-25, FA81043-26, FA81043-27, FA81043-30

| CAS No.   | Compound                  | FA81043-1<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                | 5000               | 4200       | 84      | 5000          | 4440        | 89       | 6   | 72-117/14         |
| 100-42-5  | Styrene                   | ND                | 5000               | 4280       | 86      | 5000          | 4400        | 88       | 3   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                | 5000               | 4570       | 91      | 5000          | 4840        | 97       | 6   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                | 5000               | 4930       | 99      | 5000          | 5040        | 101      | 2   | 76-135/16         |
| 108-88-3  | Toluene                   | 16400             | 5000               | 19900      | 70* a   | 5000          | 20200       | 76* a    | 1   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                | 5000               | 4880       | 98      | 5000          | 5440        | 109      | 11  | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                | 5000               | 5230       | 105     | 5000          | 5310        | 106      | 2   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                | 5000               | 4520       | 90      | 5000          | 4650        | 93       | 3   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | 97.4              | J 5000             | 5140       | 101     | 5000          | 5240        | 103      | 2   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | ND                | 5000               | 6660       | 133     | 5000          | 6390        | 128      | 4   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                | 5000               | 5640       | 113     | 5000          | 5600        | 112      | 1   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 25400             | 15000              | 38600      | 88      | 15000         | 39400       | 93       | 2   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81043-1 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 102% | 99%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 103% | 101%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 94%  | 95%  | 99%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 91%  | 92%  | 97%       | 83-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| FA80998-10MS            | C0145443.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |
| FA80998-10MSD           | C0145444.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |
| FA80998-10 <sup>a</sup> | C0145434.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-28, FA81043-29

| CAS No.    | Compound                    | FA80998-10<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|--------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | 25 U               | 125        | 126        | 101     | 125           | 122         | 98       | 3   | 50-147/21         |
| 71-43-2    | Benzene                     | 1.0 U              | 25         | 27.6       | 110     | 25            | 25.2        | 101      | 9   | 81-122/14         |
| 75-27-4    | Bromodichloromethane        | 1.0 U              | 25         | 27.6       | 110     | 25            | 25.6        | 102      | 8   | 79-123/19         |
| 75-25-2    | Bromoform                   | 1.0 U              | 25         | 28.0       | 112     | 25            | 26.3        | 105      | 6   | 66-123/21         |
| 78-93-3    | 2-Butanone (MEK)            | 5.0 U              | 125        | 134        | 107     | 125           | 122         | 98       | 9   | 56-143/18         |
| 75-15-0    | Carbon Disulfide            | 2.0 U              | 25         | 26.6       | 106     | 25            | 23.7        | 95       | 12  | 66-148/23         |
| 56-23-5    | Carbon Tetrachloride        | 1.0 U              | 25         | 29.6       | 118     | 25            | 27.5        | 110      | 7   | 76-136/23         |
| 108-90-7   | Chlorobenzene               | 1.0 U              | 25         | 29.9       | 120     | 25            | 28.2        | 113      | 6   | 82-124/14         |
| 75-00-3    | Chloroethane                | 2.0 U              | 25         | 23.1       | 92      | 25            | 22.1        | 88       | 4   | 62-144/20         |
| 67-66-3    | Chloroform                  | 1.0 U              | 25         | 27.9       | 112     | 25            | 25.5        | 102      | 9   | 80-124/15         |
| 110-82-7   | Cyclohexane                 | 1.0 U              | 25         | 28.3       | 113     | 25            | 26.4        | 106      | 7   | 73-138/18         |
| 124-48-1   | Dibromochloromethane        | 1.0 U              | 25         | 30.0       | 120     | 25            | 27.4        | 110      | 9   | 78-122/19         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 5.0 U              | 25         | 29.7       | 119     | 25            | 27.0        | 108      | 10  | 64-123/18         |
| 106-93-4   | 1,2-Dibromoethane           | 2.0 U              | 25         | 28.5       | 114     | 25            | 26.2        | 105      | 8   | 75-120/13         |
| 75-71-8    | Dichlorodifluoromethane     | 2.0 U              | 25         | 21.6       | 86      | 25            | 20.8        | 83       | 4   | 42-167/19         |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0 U              | 25         | 30.9       | 124     | 25            | 29.2        | 117      | 6   | 82-124/14         |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0 U              | 25         | 31.4       | 126*    | 25            | 29.9        | 120      | 5   | 84-125/14         |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0 U              | 25         | 30.1       | 120     | 25            | 28.5        | 114      | 5   | 78-120/15         |
| 75-34-3    | 1,1-Dichloroethane          | 1.0 U              | 25         | 29.4       | 118     | 25            | 27.1        | 108      | 8   | 81-122/15         |
| 107-06-2   | 1,2-Dichloroethane          | 1.0 U              | 25         | 26.0       | 104     | 25            | 24.4        | 98       | 6   | 75-125/14         |
| 75-35-4    | 1,1-Dichloroethylene        | 1.0 U              | 25         | 30.4       | 122     | 25            | 27.8        | 111      | 9   | 78-137/18         |
| 156-59-2   | cis-1,2-Dichloroethylene    | 1.0 U              | 25         | 27.3       | 109     | 25            | 25.8        | 103      | 6   | 78-120/15         |
| 156-60-5   | trans-1,2-Dichloroethylene  | 1.0 U              | 25         | 28.8       | 115     | 25            | 26.8        | 107      | 7   | 76-127/17         |
| 78-87-5    | 1,2-Dichloropropane         | 1.0 U              | 25         | 26.9       | 108     | 25            | 25.0        | 100      | 7   | 76-124/14         |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0 U              | 25         | 24.0       | 96      | 25            | 23.1        | 92       | 4   | 75-118/23         |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1.0 U              | 25         | 29.3       | 117     | 25            | 28.0        | 112      | 5   | 80-120/22         |
| 100-41-4   | Ethylbenzene                | 1.0 U              | 25         | 31.2       | 125*    | 25            | 29.1        | 116      | 7   | 81-121/14         |
| 76-13-1    | Freon 113                   | 1.0 U              | 25         | 25.3       | 101     | 25            | 23.3        | 93       | 8   | 72-134/20         |
| 591-78-6   | 2-Hexanone                  | 10 U               | 125        | 145        | 116     | 125           | 134         | 107      | 8   | 61-129/18         |
| 98-82-8    | Isopropylbenzene            | 1.0 U              | 25         | 30.9       | 124     | 25            | 29.5        | 118      | 5   | 83-132/15         |
| 79-20-9    | Methyl Acetate              | 20 U               | 125        | 120        | 96      | 125           | 110         | 88       | 9   | 65-126/18         |
| 74-83-9    | Methyl Bromide              | 5.0 U              | 25         | 12.7       | 51*     | 25            | 13.4        | 54*      | 5   | 59-143/19         |
| 74-87-3    | Methyl Chloride             | 2.0 U              | 25         | 20.3       | 81      | 25            | 22.2        | 89       | 9   | 50-159/19         |
| 108-87-2   | Methylcyclohexane           | 1.0 U              | 25         | 28.7       | 115     | 25            | 27.4        | 110      | 5   | 76-129/17         |
| 75-09-2    | Methylene Chloride          | 5.0 U              | 25         | 23.9       | 96      | 25            | 22.3        | 89       | 7   | 69-135/16         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 5.0 U              | 125        | 155        | 124*    | 125           | 145         | 116      | 7   | 66-122/16         |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81043  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                  | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------------------|------------|----|----------|----|-----------|------------|------------------|
| FA80998-10MS            | C0145443.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |
| FA80998-10MSD           | C0145444.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |
| FA80998-10 <sup>a</sup> | C0145434.D | 1  | 12/03/20 | SO | n/a       | n/a        | VC5841           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81043-28, FA81043-29

| CAS No.   | Compound                  | FA80998-10<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|--------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 1.0 U              | 25                 | 25.1       | 100     | 25            | 23.0        | 92       | 9   | 72-117/14         |
| 100-42-5  | Styrene                   | 1.0 U              | 25                 | 30.2       | 121*    | 25            | 27.8        | 111      | 8   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 1.0 U              | 25                 | 30.9       | 124*    | 25            | 28.7        | 115      | 7   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | 1.0 U              | 25                 | 32.7       | 131     | 25            | 30.5        | 122      | 7   | 76-135/16         |
| 108-88-3  | Toluene                   | 1.0 U              | 25                 | 30.3       | 121*    | 25            | 28.3        | 113      | 7   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 2.0 U              | 25                 | 26.7       | 107     | 25            | 26.4        | 106      | 1   | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | 1.0 U              | 25                 | 29.2       | 117     | 25            | 27.1        | 108      | 7   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | 1.0 U              | 25                 | 30.2       | 121*    | 25            | 27.6        | 110      | 9   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | 1.0 U              | 25                 | 27.2       | 109     | 25            | 25.0        | 100      | 8   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | 2.0 U              | 25                 | 25.9       | 104     | 25            | 24.6        | 98       | 5   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | 1.0 U              | 25                 | 23.2       | 93      | 25            | 22.1        | 88       | 5   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 3.0 U              | 75                 | 93.0       | 124     | 75            | 87.7        | 117      | 6   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA80998-10 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%  | 96%  | 95%        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 101% | 100%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 109% | 109% | 110%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 102% | 104%       | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values. Confirmation run.

\* = Outside of Control Limits.

5.3.4  
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The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

ARCADIS Geraghty & Miller

Brenntag; Charleston, SC

SC000204.0011.00001

SGS Job Number: FA81103

Sampling Date: 11/20/20



Report to:

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Total number of pages in report: **71**



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

Norm Farmer  
Technical Director

Client Service contact: Evita Martinez 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA81103

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

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

|            |          |       |    |          |    |              |               |
|------------|----------|-------|----|----------|----|--------------|---------------|
| FA81103-1  | 11/20/20 | 08:42 | CL | 11/21/20 | AQ | Ground Water | A2-16 (7-10)  |
| FA81103-2  | 11/20/20 | 08:49 | CL | 11/21/20 | AQ | Ground Water | A2-16 (17-20) |
| FA81103-3  | 11/20/20 | 09:01 | CL | 11/21/20 | AQ | Ground Water | A2-17 (7-10)  |
| FA81103-4  | 11/20/20 | 09:20 | CL | 11/21/20 | AQ | Ground Water | A2-17 (17-20) |
| FA81103-5  | 11/20/20 | 09:37 | CL | 11/21/20 | AQ | Ground Water | A2-19 (7-10)  |
| FA81103-6  | 11/20/20 | 09:44 | CL | 11/21/20 | AQ | Ground Water | A2-19 (17-20) |
| FA81103-7  | 11/20/20 | 10:18 | CL | 11/21/20 | AQ | Ground Water | A2-18 (7-10)  |
| FA81103-8  | 11/20/20 | 11:27 | CL | 11/21/20 | AQ | Ground Water | A2-22 (7-10)  |
| FA81103-9  | 11/20/20 | 11:33 | CL | 11/21/20 | AQ | Ground Water | A2-22 (17-20) |
| FA81103-10 | 11/20/20 | 11:50 | CL | 11/21/20 | AQ | Ground Water | A2-23 (7-10)  |
| FA81103-11 | 11/20/20 | 12:01 | CL | 11/21/20 | AQ | Ground Water | A2-23 (17-20) |
| FA81103-12 | 11/20/20 | 00:00 | CL | 11/21/20 | AQ | Ground Water | DUP 2         |



### Sample Summary

(continued)

ARCADIS Geraghty & Miller

Job No: FA81103

Brenntag, Charleston, SC

Project No: SC000204.0011.00001

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type                | Client Sample ID |
|---------------|----------------|---------|----------|-------------|---------------------|------------------|
| FA81103-13    | 11/20/20       | 00:00   | CL       | 11/21/20    | AQ Trip Blank Water | TRIP BLANK       |
| FA81103-14    | 11/20/20       | 12:59   | CL       | 11/21/20    | AQ Ground Water     | A2-24 (7-10)     |
| FA81103-15    | 11/20/20       | 13:07   | CL       | 11/21/20    | AQ Ground Water     | A2-24 (17-20)    |
| FA81103-16    | 11/20/20       | 13:20   | CL       | 11/21/20    | AQ Ground Water     | A2-25 (7-10)     |
| FA81103-17    | 11/20/20       | 13:26   | CL       | 11/21/20    | AQ Ground Water     | A2-25 (17-20)    |

## Summary of Hits

**Job Number:** FA81103  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/20/20

| Lab Sample ID    | Client Sample ID     | Result/<br>Analyte                      | RL      | MDL | Units | Method           |
|------------------|----------------------|---|---------|-----|-------|------------------|
| <b>FA81103-1</b> | <b>A2-16 (7-10)</b>  |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene                | 1830    | 50  | 14    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride                          | 1820    | 50  | 20    | ug/l SW846 8260D |
| <b>FA81103-2</b> | <b>A2-16 (17-20)</b> |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene                | 23500   | 500 | 140   | ug/l SW846 8260D |
|                  |                      | trans-1,2-Dichloroethylene <sup>a</sup> | 177 J   | 250 | 55    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride                          | 2190    | 500 | 200   | ug/l SW846 8260D |
| <b>FA81103-3</b> | <b>A2-17 (7-10)</b>  |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene                | 4880    | 100 | 28    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride                          | 1130    | 100 | 41    | ug/l SW846 8260D |
| <b>FA81103-4</b> | <b>A2-17 (17-20)</b> |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene <sup>b</sup>   | 15400 E | 100 | 28    | ug/l SW846 8260D |
|                  |                      | trans-1,2-Dichloroethylene <sup>c</sup> | 177     | 100 | 22    | ug/l SW846 8260D |
|                  |                      | Trichloroethylene <sup>c</sup>          | 463     | 100 | 35    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride <sup>c</sup>             | 141     | 100 | 41    | ug/l SW846 8260D |
| <b>FA81103-5</b> | <b>A2-19 (7-10)</b>  |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene                | 12900   | 250 | 69    | ug/l SW846 8260D |
|                  |                      | trans-1,2-Dichloroethylene              | 76.6 J  | 250 | 55    | ug/l SW846 8260D |
|                  |                      | Trichloroethylene                       | 6090    | 250 | 86    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride                          | 224 J   | 250 | 100   | ug/l SW846 8260D |
| <b>FA81103-6</b> | <b>A2-19 (17-20)</b> |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene                | 5290    | 100 | 28    | ug/l SW846 8260D |
|                  |                      | trans-1,2-Dichloroethylene              | 78.0 J  | 100 | 22    | ug/l SW846 8260D |
|                  |                      | Trichloroethylene                       | 1220    | 100 | 35    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride                          | 518     | 100 | 41    | ug/l SW846 8260D |
| <b>FA81103-7</b> | <b>A2-18 (7-10)</b>  |   |         |     |       |                  |
|                  |                      | cis-1,2-Dichloroethylene                | 5650    | 250 | 69    | ug/l SW846 8260D |
|                  |                      | trans-1,2-Dichloroethylene              | 99.2 J  | 250 | 55    | ug/l SW846 8260D |
|                  |                      | Trichloroethylene                       | 16800   | 250 | 86    | ug/l SW846 8260D |
|                  |                      | Vinyl Chloride                          | 232 J   | 250 | 100   | ug/l SW846 8260D |

## Summary of Hits

**Job Number:** FA81103  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/20/20

| Lab Sample ID     | Client Sample ID | Result/<br>Analyte                    | RL       | MDL  | Units | Method           |
|-------------------|------------------|---------------------------------------|----------|------|-------|------------------|
| <b>FA81103-8</b>  |                  | <b>A2-22 (7-10)</b>                   |          |      |       |                  |
|                   |                  | cis-1,2-Dichloroethylene <sup>d</sup> | 6.0      | 2.0  | 0.55  | ug/l SW846 8260D |
|                   |                  | Trichloroethylene <sup>d</sup>        | 1.8 J    | 2.0  | 0.69  | ug/l SW846 8260D |
|                   |                  | Vinyl Chloride <sup>d</sup>           | 6.0      | 2.0  | 0.82  | ug/l SW846 8260D |
| <b>FA81103-9</b>  |                  | <b>A2-22 (17-20)</b>                  |          |      |       |                  |
|                   |                  | 1,1-Dichloroethylene                  | 560      | 500  | 160   | ug/l SW846 8260D |
|                   |                  | cis-1,2-Dichloroethylene              | 14000    | 500  | 140   | ug/l SW846 8260D |
|                   |                  | trans-1,2-Dichloroethylene            | 406 J    | 500  | 110   | ug/l SW846 8260D |
|                   |                  | Trichloroethylene <sup>e</sup>        | 538000 E | 1000 | 350   | ug/l SW846 8260D |
| <b>FA81103-10</b> |                  | <b>A2-23 (7-10)</b>                   |          |      |       |                  |
|                   |                  | Trichloroethylene <sup>c</sup>        | 74.2     | 2.5  | 0.86  | ug/l SW846 8260D |
| <b>FA81103-11</b> |                  | <b>A2-23 (17-20)</b>                  |          |      |       |                  |
|                   |                  | Trichloroethylene                     | 12.4     | 1.0  | 0.35  | ug/l SW846 8260D |
| <b>FA81103-12</b> |                  | <b>DUP 2</b>                          |          |      |       |                  |
|                   |                  | cis-1,2-Dichloroethylene              | 25800    | 500  | 140   | ug/l SW846 8260D |
|                   |                  | trans-1,2-Dichloroethylene            | 151 J    | 500  | 110   | ug/l SW846 8260D |
|                   |                  | Vinyl Chloride                        | 2710     | 500  | 200   | ug/l SW846 8260D |
| <b>FA81103-13</b> |                  | <b>TRIP BLANK</b>                     |          |      |       |                  |
|                   |                  | Acetone                               | 81.9     | 25   | 10    | ug/l SW846 8260D |
|                   |                  | 2-Butanone (MEK)                      | 52.5     | 5.0  | 2.0   | ug/l SW846 8260D |
|                   |                  | Methyl Chloride <sup>f</sup>          | 0.61 J   | 2.0  | 0.50  | ug/l SW846 8260D |
| <b>FA81103-14</b> |                  | <b>A2-24 (7-10)</b>                   |          |      |       |                  |
|                   |                  | cis-1,2-Dichloroethylene              | 191      | 2.5  | 0.69  | ug/l SW846 8260D |
|                   |                  | trans-1,2-Dichloroethylene            | 1.4 J    | 2.5  | 0.55  | ug/l SW846 8260D |
|                   |                  | Trichloroethylene                     | 1.8 J    | 2.5  | 0.86  | ug/l SW846 8260D |
|                   |                  | Vinyl Chloride                        | 12.9     | 2.5  | 1.0   | ug/l SW846 8260D |
| <b>FA81103-15</b> |                  | <b>A2-24 (17-20)</b>                  |          |      |       |                  |
|                   |                  | 1,1-Dichloroethylene                  | 345 J    | 500  | 160   | ug/l SW846 8260D |
|                   |                  | cis-1,2-Dichloroethylene              | 2810     | 500  | 140   | ug/l SW846 8260D |
|                   |                  | Tetrachloroethylene                   | 331 J    | 500  | 110   | ug/l SW846 8260D |

## Summary of Hits

**Job Number:** FA81103  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 11/20/20

| Lab Sample ID              | Client Sample ID | Result/<br>Qual      | RL    | MDL  | Units | Method      |
|----------------------------|------------------|----------------------|-------|------|-------|-------------|
| Trichloroethylene          |                  | 316000               | 10000 | 3500 | ug/l  | SW846 8260D |
| <b>FA81103-16</b>          |                  | <b>A2-25 (7-10)</b>  |       |      |       |             |
| cis-1,2-Dichloroethylene   |                  | 442                  | 25    | 6.9  | ug/l  | SW846 8260D |
| trans-1,2-Dichloroethylene |                  | 7.0                  | 5.0   | 1.1  | ug/l  | SW846 8260D |
| Vinyl Chloride             |                  | 20.9                 | 5.0   | 2.0  | ug/l  | SW846 8260D |
| <b>FA81103-17</b>          |                  | <b>A2-25 (17-20)</b> |       |      |       |             |
| 1,1-Dichloroethylene       |                  | 460 J                | 1000  | 320  | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethylene   |                  | 17400                | 1000  | 280  | ug/l  | SW846 8260D |
| trans-1,2-Dichloroethylene |                  | 1070                 | 1000  | 220  | ug/l  | SW846 8260D |
| Trichloroethylene          |                  | 313000               | 5000  | 1700 | ug/l  | SW846 8260D |

- (a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
- (b) Sample analyzed beyond hold time; reported results are considered minimum values. Results from different vials are not consistent; higher results were reported.
- (c) Sample analyzed beyond hold time; reported results are considered minimum values.
- (d) Dilution required due to high silt content in the sample.
- (e) Sample analyzed beyond hold time; reported results are considered minimum values. No sample available for reanalysis.
- (f) Associated CCV outside of control limits low.

Sample Results

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Report of Analysis

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# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81103-1          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

|                     | File ID    | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145519.D | 25 | 12/07/20 15:40 | SO | n/a       | n/a        | VC5844           |
| Run #2              | Y54495.D   | 50 | 12/03/20 16:04 | LR | n/a       | n/a        | VY2264           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result            | RL  | MDL | Units | Q |
|------------|--------------------------------------|-------------------|-----|-----|-------|---|
| 67-64-1    | Acetone                              | ND                | 630 | 250 | ug/l  |   |
| 71-43-2    | Benzene                              | ND                | 25  | 7.8 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND                | 25  | 6.1 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND                | 25  | 10  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                | 130 | 50  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND                | 50  | 13  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                | 25  | 8.9 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND                | 25  | 5.0 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND                | 50  | 17  | ug/l  |   |
| 67-66-3    | Chloroform                           | ND                | 25  | 7.5 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND                | 25  | 9.8 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND                | 25  | 6.9 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                | 130 | 26  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                | 50  | 6.9 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                | 50  | 13  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND                | 25  | 8.1 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND                | 25  | 5.4 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND                | 25  | 6.4 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                | 25  | 8.5 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                | 25  | 7.8 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                | 25  | 8.1 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 1830 <sup>c</sup> | 50  | 14  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                | 25  | 5.5 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                | 25  | 11  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                | 25  | 7.3 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                | 25  | 5.4 | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND                | 25  | 8.9 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND                | 25  | 12  | ug/l  |   |
| 591-78-6   | 2-Hexanone                           | ND                | 250 | 50  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | ND                | 25  | 5.5 | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND                | 500 | 130 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup>          | ND                | 130 | 50  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-16 (7-10)             | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-1                | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result            | RL  | MDL | Units | Q |
|-----------|-----------------------------|-------------------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride             | ND                | 50  | 13  | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND                | 25  | 11  | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND                | 130 | 50  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND                | 130 | 25  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND                | 25  | 5.7 | ug/l  |   |
| 100-42-5  | Styrene                     | ND                | 25  | 5.6 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND                | 25  | 7.5 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND                | 25  | 5.4 | ug/l  |   |
| 108-88-3  | Toluene                     | ND                | 25  | 7.5 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND                | 50  | 13  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND                | 25  | 6.2 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND                | 25  | 12  | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND                | 25  | 8.6 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND                | 50  | 13  | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 1820 <sup>c</sup> | 50  | 20  | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND                | 75  | 18  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%    | 106%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 107%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 108%   | 91%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   | 97%    | 83-118% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.

(b) Associated CCV outside of control limits low.

(c) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-2          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

|                     | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145520.D | 250 | 12/07/20 16:05 | SO | n/a       | n/a        | VC5844           |
| Run #2              | Y54496.D   | 500 | 12/03/20 16:31 | LR | n/a       | n/a        | VY2264           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result             | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------------------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND                 | 6300 | 2500 | ug/l  |   |
| 71-43-2    | Benzene                              | ND                 | 250  | 78   | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND                 | 250  | 61   | ug/l  |   |
| 75-25-2    | Bromoform                            | ND                 | 250  | 100  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                 | 1300 | 500  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND                 | 500  | 130  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                 | 250  | 89   | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND                 | 250  | 50   | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND                 | 500  | 170  | ug/l  |   |
| 67-66-3    | Chloroform                           | ND                 | 250  | 75   | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND                 | 250  | 98   | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND                 | 250  | 69   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                 | 1300 | 260  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                 | 500  | 69   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                 | 500  | 130  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND                 | 250  | 81   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND                 | 250  | 54   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND                 | 250  | 64   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                 | 250  | 85   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                 | 250  | 78   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                 | 250  | 81   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 23500 <sup>c</sup> | 500  | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | 177                | 250  | 55   | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane                  | ND                 | 250  | 110  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                 | 250  | 73   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                 | 250  | 54   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND                 | 250  | 89   | ug/l  |   |
| 76-13-1    | Freon 113                            | ND                 | 250  | 120  | ug/l  |   |
| 591-78-6   | 2-Hexanone                           | ND                 | 2500 | 500  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | ND                 | 250  | 55   | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND                 | 5000 | 1300 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup>          | ND                 | 1300 | 500  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-16 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-2          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result            | RL   | MDL | Units | Q |
|-----------|-----------------------------|-------------------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride             | ND                | 500  | 130 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND                | 250  | 110 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND                | 1300 | 500 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND                | 1300 | 250 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND                | 250  | 57  | ug/l  |   |
| 100-42-5  | Styrene                     | ND                | 250  | 56  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND                | 250  | 75  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND                | 250  | 54  | ug/l  |   |
| 108-88-3  | Toluene                     | ND                | 250  | 75  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND                | 500  | 130 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND                | 250  | 62  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND                | 250  | 120 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND                | 250  | 86  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND                | 500  | 130 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 2190 <sup>c</sup> | 500  | 200 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND                | 750  | 180 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    | 105%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 110%   | 91%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   | 98%    | 83-118% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.

(b) Associated CCV outside of control limits low.

(c) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-17 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-3          |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145521.D | 50  | 12/07/20 16:30 | SO | n/a       | n/a        | VC5844           |
| Run #2              | Y54497.D   | 100 | 12/03/20 16:58 | LR | n/a       | n/a        | VY2264           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result            | RL   | MDL | Units | Q |
|------------|--------------------------------------|-------------------|------|-----|-------|---|
| 67-64-1    | Acetone                              | ND                | 1300 | 500 | ug/l  |   |
| 71-43-2    | Benzene                              | ND                | 50   | 16  | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND                | 50   | 12  | ug/l  |   |
| 75-25-2    | Bromoform                            | ND                | 50   | 20  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND                | 250  | 100 | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND                | 100  | 27  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND                | 50   | 18  | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND                | 50   | 10  | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND                | 100  | 33  | ug/l  |   |
| 67-66-3    | Chloroform                           | ND                | 50   | 15  | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND                | 50   | 20  | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND                | 50   | 14  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND                | 250  | 52  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND                | 100  | 14  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND                | 100  | 25  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND                | 50   | 16  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND                | 50   | 11  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND                | 50   | 13  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND                | 50   | 17  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND                | 50   | 16  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND                | 50   | 16  | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | 4880 <sup>c</sup> | 100  | 28  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND                | 50   | 11  | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND                | 50   | 21  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND                | 50   | 15  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND                | 50   | 11  | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND                | 50   | 18  | ug/l  |   |
| 76-13-1    | Freon 113                            | ND                | 50   | 24  | ug/l  |   |
| 591-78-6   | 2-Hexanone                           | ND                | 500  | 100 | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | ND                | 50   | 11  | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND                | 1000 | 250 | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>b</sup>          | ND                | 250  | 100 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-17 (7-10)             | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-3                | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result            | RL  | MDL | Units | Q |
|-----------|-----------------------------|-------------------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride             | ND                | 100 | 25  | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND                | 50  | 22  | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND                | 250 | 100 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND                | 250 | 50  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND                | 50  | 11  | ug/l  |   |
| 100-42-5  | Styrene                     | ND                | 50  | 11  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND                | 50  | 15  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND                | 50  | 11  | ug/l  |   |
| 108-88-3  | Toluene                     | ND                | 50  | 15  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND                | 100 | 25  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND                | 50  | 12  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND                | 50  | 23  | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND                | 50  | 17  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND                | 100 | 25  | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 1130 <sup>c</sup> | 100 | 41  | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND                | 150 | 36  | ug/l  |   |

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

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.

(b) Associated CCV outside of control limits low.

(c) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-17 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-4          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

|                     | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145522.D | 100 | 12/07/20 16:55 | SO | n/a       | n/a        | VC5844           |
| Run #2 <sup>b</sup> | Y54498.D   | 200 | 12/03/20 17:25 | LR | n/a       | n/a        | VY2264           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                              | Result | RL   | MDL  | Units | Q |
|------------|---------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                               | ND     | 2500 | 1000 | ug/l  |   |
| 71-43-2    | Benzene                               | ND     | 100  | 31   | ug/l  |   |
| 75-27-4    | Bromodichloromethane                  | ND     | 100  | 24   | ug/l  |   |
| 75-25-2    | Bromoform                             | ND     | 100  | 41   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                      | ND     | 500  | 200  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                      | ND     | 200  | 53   | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                  | ND     | 100  | 36   | ug/l  |   |
| 108-90-7   | Chlorobenzene                         | ND     | 100  | 20   | ug/l  |   |
| 75-00-3    | Chloroethane                          | ND     | 200  | 67   | ug/l  |   |
| 67-66-3    | Chloroform                            | ND     | 100  | 30   | ug/l  |   |
| 110-82-7   | Cyclohexane                           | ND     | 100  | 39   | ug/l  |   |
| 124-48-1   | Dibromochloromethane                  | ND     | 100  | 28   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane           | ND     | 500  | 100  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                     | ND     | 200  | 28   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup>  | ND     | 200  | 50   | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                   | ND     | 100  | 32   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                   | ND     | 100  | 22   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                   | ND     | 100  | 26   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                    | ND     | 100  | 34   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                    | ND     | 100  | 31   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                  | ND     | 100  | 32   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene <sup>d</sup> | 15400  | 100  | 28   | ug/l  | E |
| 156-60-5   | trans-1,2-Dichloroethylene            | 177    | 100  | 22   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                   | ND     | 100  | 43   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene               | ND     | 100  | 29   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene             | ND     | 100  | 21   | ug/l  |   |
| 100-41-4   | Ethylbenzene                          | ND     | 100  | 36   | ug/l  |   |
| 76-13-1    | Freon 113                             | ND     | 100  | 48   | ug/l  |   |
| 591-78-6   | 2-Hexanone                            | ND     | 1000 | 200  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                      | ND     | 100  | 22   | ug/l  |   |
| 79-20-9    | Methyl Acetate                        | ND     | 2000 | 500  | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>c</sup>           | ND     | 500  | 200  | ug/l  |   |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-17 (17-20)            | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-4                | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                     | Result | RL  | MDL | Units | Q |
|-----------|------------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride <sup>e</sup> | ND     | 200 | 50  | ug/l  |   |
| 108-87-2  | Methylcyclohexane            | ND     | 100 | 44  | ug/l  |   |
| 75-09-2   | Methylene Chloride           | ND     | 500 | 200 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)  | ND     | 500 | 100 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether      | ND     | 100 | 23  | ug/l  |   |
| 100-42-5  | Styrene                      | ND     | 100 | 22  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane    | ND     | 100 | 30  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene          | ND     | 100 | 22  | ug/l  |   |
| 108-88-3  | Toluene                      | ND     | 100 | 30  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene       | ND     | 200 | 50  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane        | ND     | 100 | 25  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane        | ND     | 100 | 47  | ug/l  |   |
| 79-01-6   | Trichloroethylene            | 463    | 100 | 35  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane       | ND     | 200 | 50  | ug/l  |   |
| 75-01-4   | Vinyl Chloride               | 141    | 100 | 41  | ug/l  |   |
| 1330-20-7 | Xylene (total)               | ND     | 300 | 72  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 97%    | 105%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100%   | 105%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 108%   | 91%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   | 98%    | 83-118% |

- (a) Sample analyzed beyond hold time; reported results are considered minimum values.  
(b) Confirmation run.  
(c) Associated CCV outside of control limits low.  
(d) Results from different vials are not consistent; higher results were reported.  
(e) Associated ICV outside control limits high, however sample ND.

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

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81103-5          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1              | Y54499.D  | 250 | 12/03/20 17:53 | LR | n/a       | n/a        | VY2264           |
| Run #2 <sup>a</sup> | 1A32530.D | 250 | 12/08/20 14:16 | CV | n/a       | n/a        | V1A1347          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                                | Result | RL   | MDL  | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1    | Acetone                                 | ND     | 6300 | 2500 | ug/l  |   |
| 71-43-2    | Benzene                                 | ND     | 250  | 78   | ug/l  |   |
| 75-27-4    | Bromodichloromethane                    | ND     | 250  | 61   | ug/l  |   |
| 75-25-2    | Bromoform                               | ND     | 250  | 100  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                        | ND     | 1300 | 500  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                        | ND     | 500  | 130  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                    | ND     | 250  | 89   | ug/l  |   |
| 108-90-7   | Chlorobenzene                           | ND     | 250  | 50   | ug/l  |   |
| 75-00-3    | Chloroethane <sup>b</sup>               | ND     | 500  | 170  | ug/l  |   |
| 67-66-3    | Chloroform                              | ND     | 250  | 75   | ug/l  |   |
| 110-82-7   | Cyclohexane                             | ND     | 250  | 98   | ug/l  |   |
| 124-48-1   | Dibromochloromethane                    | ND     | 250  | 69   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropan <sup>c</sup> | ND     | 1300 | 260  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                       | ND     | 500  | 69   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane                 | ND     | 500  | 130  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene <sup>d</sup>        | ND     | 250  | 81   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene <sup>d</sup>        | ND     | 250  | 54   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                     | ND     | 250  | 64   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                      | ND     | 250  | 85   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                      | ND     | 250  | 78   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                    | ND     | 250  | 81   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene                | 12900  | 250  | 69   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene              | 76.6   | 250  | 55   | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane                     | ND     | 250  | 110  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene                 | ND     | 250  | 73   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene               | ND     | 250  | 54   | ug/l  |   |
| 100-41-4   | Ethylbenzene                            | ND     | 250  | 89   | ug/l  |   |
| 76-13-1    | Freon 113                               | ND     | 250  | 120  | ug/l  |   |
| 591-78-6   | 2-Hexanone                              | ND     | 2500 | 500  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                        | ND     | 250  | 55   | ug/l  |   |
| 79-20-9    | Methyl Acetate                          | ND     | 5000 | 1300 | ug/l  |   |
| 74-83-9    | Methyl Bromide                          | ND     | 1300 | 500  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-19 (7-10)             | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-5                | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                                | Result | RL   | MDL | Units | Q |
|-----------|---|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                         | ND     | 500  | 130 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                       | ND     | 250  | 110 | ug/l  |   |
| 75-09-2   | Methylene Chloride                      | ND     | 1300 | 500 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB) <sup>c</sup> | ND     | 1300 | 250 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                 | ND     | 250  | 57  | ug/l  |   |
| 100-42-5  | Styrene                                 | ND     | 250  | 56  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane <sup>c</sup>  | ND     | 250  | 75  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                     | ND     | 250  | 54  | ug/l  |   |
| 108-88-3  | Toluene <sup>d</sup>                    | ND     | 250  | 75  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene <sup>d</sup>     | ND     | 500  | 130 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                   | ND     | 250  | 62  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                   | ND     | 250  | 120 | ug/l  |   |
| 79-01-6   | Trichloroethylene                       | 6090   | 250  | 86  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane                  | ND     | 500  | 130 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                          | 224    | 250  | 100 | ug/l  | J |
| 1330-20-7 | Xylene (total)                          | ND     | 750  | 180 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106%   | 98%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   | 94%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 90%    | 94%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    | 99%    | 83-118% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values. Confirmation run.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low.

(d) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-6          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1              | Y54500.D  | 100 | 12/03/20 18:20 | LR | n/a       | n/a        | VY2264           |
| Run #2 <sup>a</sup> | 1A32531.D | 100 | 12/08/20 14:41 | CV | n/a       | n/a        | V1A1347          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                                | Result | RL   | MDL  | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1    | Acetone                                 | ND     | 2500 | 1000 | ug/l  |   |
| 71-43-2    | Benzene                                 | ND     | 100  | 31   | ug/l  |   |
| 75-27-4    | Bromodichloromethane                    | ND     | 100  | 24   | ug/l  |   |
| 75-25-2    | Bromoform                               | ND     | 100  | 41   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                        | ND     | 500  | 200  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                        | ND     | 200  | 53   | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                    | ND     | 100  | 36   | ug/l  |   |
| 108-90-7   | Chlorobenzene                           | ND     | 100  | 20   | ug/l  |   |
| 75-00-3    | Chloroethane <sup>b</sup>               | ND     | 200  | 67   | ug/l  |   |
| 67-66-3    | Chloroform                              | ND     | 100  | 30   | ug/l  |   |
| 110-82-7   | Cyclohexane                             | ND     | 100  | 39   | ug/l  |   |
| 124-48-1   | Dibromochloromethane                    | ND     | 100  | 28   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropan <sup>c</sup> | ND     | 500  | 100  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                       | ND     | 200  | 28   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane                 | ND     | 200  | 50   | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene <sup>d</sup>        | ND     | 100  | 32   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene <sup>d</sup>        | ND     | 100  | 22   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                     | ND     | 100  | 26   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                      | ND     | 100  | 34   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                      | ND     | 100  | 31   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                    | ND     | 100  | 32   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene                | 5290   | 100  | 28   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene              | 78.0   | 100  | 22   | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane                     | ND     | 100  | 43   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene                 | ND     | 100  | 29   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene               | ND     | 100  | 21   | ug/l  |   |
| 100-41-4   | Ethylbenzene                            | ND     | 100  | 36   | ug/l  |   |
| 76-13-1    | Freon 113                               | ND     | 100  | 48   | ug/l  |   |
| 591-78-6   | 2-Hexanone                              | ND     | 1000 | 200  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                        | ND     | 100  | 22   | ug/l  |   |
| 79-20-9    | Methyl Acetate                          | ND     | 2000 | 500  | ug/l  |   |
| 74-83-9    | Methyl Bromide                          | ND     | 500  | 200  | ug/l  |   |

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-19 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-6          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                                 | Result | RL  | MDL | Units | Q |
|-----------|--|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride                          | ND     | 200 | 50  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                        | ND     | 100 | 44  | ug/l  |   |
| 75-09-2   | Methylene Chloride                       | ND     | 500 | 200 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB <sup>c</sup> ) | ND     | 500 | 100 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                  | ND     | 100 | 23  | ug/l  |   |
| 100-42-5  | Styrene                                  | ND     | 100 | 22  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane <sup>c</sup>   | ND     | 100 | 30  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                      | ND     | 100 | 22  | ug/l  |   |
| 108-88-3  | Toluene <sup>d</sup>                     | ND     | 100 | 30  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene <sup>d</sup>      | ND     | 200 | 50  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                    | ND     | 100 | 25  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                    | ND     | 100 | 47  | ug/l  |   |
| 79-01-6   | Trichloroethylene                        | 1220   | 100 | 35  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane                   | ND     | 200 | 50  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                           | 518    | 100 | 41  | ug/l  |   |
| 1330-20-7 | Xylene (total)                           | ND     | 300 | 72  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106%   | 97%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   | 94%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 91%    | 94%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    | 100%   | 83-118% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values. Confirmation run.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low.

(d) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-18 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-7          |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #               | File ID   | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|-----|----------------|----|-----------|------------|------------------|
| Run #1              | Y54501.D  | 250 | 12/03/20 18:47 | LR | n/a       | n/a        | VY2264           |
| Run #2 <sup>a</sup> | 1A32532.D | 250 | 12/08/20 15:07 | CV | n/a       | n/a        | V1A1347          |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                                | Result | RL   | MDL  | Units | Q |
|------------|---|--------|------|------|-------|---|
| 67-64-1    | Acetone                                 | ND     | 6300 | 2500 | ug/l  |   |
| 71-43-2    | Benzene                                 | ND     | 250  | 78   | ug/l  |   |
| 75-27-4    | Bromodichloromethane                    | ND     | 250  | 61   | ug/l  |   |
| 75-25-2    | Bromoform                               | ND     | 250  | 100  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                        | ND     | 1300 | 500  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                        | ND     | 500  | 130  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                    | ND     | 250  | 89   | ug/l  |   |
| 108-90-7   | Chlorobenzene                           | ND     | 250  | 50   | ug/l  |   |
| 75-00-3    | Chloroethane <sup>b</sup>               | ND     | 500  | 170  | ug/l  |   |
| 67-66-3    | Chloroform                              | ND     | 250  | 75   | ug/l  |   |
| 110-82-7   | Cyclohexane                             | ND     | 250  | 98   | ug/l  |   |
| 124-48-1   | Dibromochloromethane                    | ND     | 250  | 69   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropan <sup>c</sup> | ND     | 1300 | 260  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                       | ND     | 500  | 69   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane                 | ND     | 500  | 130  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene <sup>d</sup>        | ND     | 250  | 81   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene <sup>d</sup>        | ND     | 250  | 54   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                     | ND     | 250  | 64   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                      | ND     | 250  | 85   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                      | ND     | 250  | 78   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                    | ND     | 250  | 81   | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene                | 5650   | 250  | 69   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene              | 99.2   | 250  | 55   | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane                     | ND     | 250  | 110  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene                 | ND     | 250  | 73   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene               | ND     | 250  | 54   | ug/l  |   |
| 100-41-4   | Ethylbenzene                            | ND     | 250  | 89   | ug/l  |   |
| 76-13-1    | Freon 113                               | ND     | 250  | 120  | ug/l  |   |
| 591-78-6   | 2-Hexanone                              | ND     | 2500 | 500  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                        | ND     | 250  | 55   | ug/l  |   |
| 79-20-9    | Methyl Acetate                          | ND     | 5000 | 1300 | ug/l  |   |
| 74-83-9    | Methyl Bromide                          | ND     | 1300 | 500  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-18 (7-10)             | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-7                | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                                | Result | RL   | MDL | Units | Q |
|-----------|---|--------|------|-----|-------|---|
| 74-87-3   | Methyl Chloride                         | ND     | 500  | 130 | ug/l  |   |
| 108-87-2  | Methylcyclohexane                       | ND     | 250  | 110 | ug/l  |   |
| 75-09-2   | Methylene Chloride                      | ND     | 1300 | 500 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB) <sup>c</sup> | ND     | 1300 | 250 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                 | ND     | 250  | 57  | ug/l  |   |
| 100-42-5  | Styrene                                 | ND     | 250  | 56  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane <sup>c</sup>  | ND     | 250  | 75  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                     | ND     | 250  | 54  | ug/l  |   |
| 108-88-3  | Toluene <sup>d</sup>                    | ND     | 250  | 75  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene <sup>d</sup>     | ND     | 500  | 130 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                   | ND     | 250  | 62  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                   | ND     | 250  | 120 | ug/l  |   |
| 79-01-6   | Trichloroethylene                       | 16800  | 250  | 86  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane                  | ND     | 500  | 130 | ug/l  |   |
| 75-01-4   | Vinyl Chloride                          | 232    | 250  | 100 | ug/l  | J |
| 1330-20-7 | Xylene (total)                          | ND     | 750  | 180 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 105%   | 96%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106%   | 93%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 91%    | 94%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%    | 100%   | 83-118% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values. Confirmation run.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low.

(d) Associated BS recovery outside control limits low.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-8          |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | Y54494.D | 2  | 12/03/20 15:37 | LR | n/a       | n/a        | VY2264           |
| Run #2              |          |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                                | Result | RL  | MDL  | Units | Q |
|------------|---|--------|-----|------|-------|---|
| 67-64-1    | Acetone                                 | ND     | 50  | 20   | ug/l  |   |
| 71-43-2    | Benzene                                 | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                    | ND     | 2.0 | 0.48 | ug/l  |   |
| 75-25-2    | Bromoform                               | ND     | 2.0 | 0.81 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                        | ND     | 10  | 4.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                        | ND     | 4.0 | 1.1  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                    | ND     | 2.0 | 0.71 | ug/l  |   |
| 108-90-7   | Chlorobenzene                           | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-00-3    | Chloroethane <sup>b</sup>               | ND     | 4.0 | 1.3  | ug/l  |   |
| 67-66-3    | Chloroform                              | ND     | 2.0 | 0.60 | ug/l  |   |
| 110-82-7   | Cyclohexane                             | ND     | 2.0 | 0.78 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                    | ND     | 2.0 | 0.55 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropan <sup>c</sup> | ND     | 10  | 2.1  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                       | ND     | 4.0 | 0.55 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane                 | ND     | 4.0 | 1.0  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene <sup>d</sup>        | ND     | 2.0 | 0.65 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene <sup>d</sup>        | ND     | 2.0 | 0.43 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                     | ND     | 2.0 | 0.51 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                      | ND     | 2.0 | 0.68 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                      | ND     | 2.0 | 0.62 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                    | ND     | 2.0 | 0.64 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene                | 6.0    | 2.0 | 0.55 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene              | ND     | 2.0 | 0.44 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                     | ND     | 2.0 | 0.85 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene                 | ND     | 2.0 | 0.58 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene               | ND     | 2.0 | 0.43 | ug/l  |   |
| 100-41-4   | Ethylbenzene                            | ND     | 2.0 | 0.71 | ug/l  |   |
| 76-13-1    | Freon 113                               | ND     | 2.0 | 0.96 | ug/l  |   |
| 591-78-6   | 2-Hexanone                              | ND     | 20  | 4.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                        | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-20-9    | Methyl Acetate                          | ND     | 40  | 10   | ug/l  |   |
| 74-83-9    | Methyl Bromide                          | ND     | 10  | 4.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis



|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (7-10)    | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-8          | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |                                |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                                 | Result | RL  | MDL  | Units | Q |
|-----------|--|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride                          | ND     | 4.0 | 1.0  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                        | ND     | 2.0 | 0.87 | ug/l  |   |
| 75-09-2   | Methylene Chloride                       | ND     | 10  | 4.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB <sup>c</sup> ) | ND     | 10  | 2.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                  | ND     | 2.0 | 0.46 | ug/l  |   |
| 100-42-5  | Styrene                                  | ND     | 2.0 | 0.44 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane <sup>c</sup>   | ND     | 2.0 | 0.60 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                      | ND     | 2.0 | 0.43 | ug/l  |   |
| 108-88-3  | Toluene <sup>d</sup>                     | ND     | 2.0 | 0.60 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene <sup>d</sup>      | ND     | 4.0 | 1.0  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                    | ND     | 2.0 | 0.50 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                    | ND     | 2.0 | 0.93 | ug/l  |   |
| 79-01-6   | Trichloroethylene                        | 1.8    | 2.0 | 0.69 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane                   | ND     | 4.0 | 1.0  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                           | 6.0    | 2.0 | 0.82 | ug/l  |   |
| 1330-20-7 | Xylene (total)                           | ND     | 6.0 | 1.4  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 91%    |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 83-118% |

- (a) Dilution required due to high silt content in the sample.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.
- (d) Associated BS recovery outside control limits low.

---

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

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-9          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #               | File ID    | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|------|----------------|----|-----------|------------|------------------|
| Run #1              | Y54502.D   | 500  | 12/03/20 19:14 | LR | n/a       | n/a        | VY2264           |
| Run #2 <sup>a</sup> | C0145523.D | 1000 | 12/07/20 17:19 | SO | n/a       | n/a        | VC5844           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                                | Result | RL    | MDL  | Units | Q |
|------------|---|--------|-------|------|-------|---|
| 67-64-1    | Acetone                                 | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                                 | ND     | 500   | 160  | ug/l  |   |
| 75-27-4    | Bromodichloromethane                    | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                               | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                        | ND     | 2500  | 1000 | ug/l  |   |
| 75-15-0    | Carbon Disulfide                        | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                    | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene                           | ND     | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane <sup>b</sup>               | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                              | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                             | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane                    | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropan <sup>c</sup> | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                       | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane                 | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene <sup>d</sup>        | ND     | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene <sup>d</sup>        | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                     | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                      | ND     | 500   | 170  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                      | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                    | 560    | 500   | 160  | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene                | 14000  | 500   | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene              | 406    | 500   | 110  | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane                     | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene                 | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene               | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                            | ND     | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113                               | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone                              | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene                        | ND     | 500   | 110  | ug/l  |   |
| 79-20-9    | Methyl Acetate                          | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide                          | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-22 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-9          | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                                | Result              | RL   | MDL  | Units | Q |
|-----------|---|---------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride                         | ND                  | 1000 | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane                       | ND                  | 500  | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride                      | ND                  | 2500 | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIB) <sup>c</sup> | ND                  | 2500 | 500  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether                 | ND                  | 500  | 110  | ug/l  |   |
| 100-42-5  | Styrene                                 | ND                  | 500  | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane <sup>c</sup>  | ND                  | 500  | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene                     | ND                  | 500  | 110  | ug/l  |   |
| 108-88-3  | Toluene <sup>d</sup>                    | ND                  | 500  | 150  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene <sup>d</sup>     | ND                  | 1000 | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane                   | ND                  | 500  | 120  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane                   | ND                  | 500  | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene <sup>e</sup>          | 538000 <sup>f</sup> | 1000 | 350  | ug/l  | E |
| 75-69-4   | Trichlorofluoromethane                  | ND                  | 1000 | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride                          | ND                  | 500  | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)                          | ND                  | 1500 | 360  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   | 96%    | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   | 99%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 92%    | 109%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    | 103%   | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

(b) Associated CCV outside of control limits high, sample was ND.

(c) Associated CCV outside of control limits low.

(d) Associated BS recovery outside control limits low.

(e) No sample available for reanalysis.

(f) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-23 (7-10)    |  |                                |
| <b>Lab Sample ID:</b> FA81103-10         |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|                     | File ID    | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|------------|-----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | C0145524.D | 2.5 | 12/07/20 17:45 | SO | n/a       | n/a        | VC5844           |
| Run #2 <sup>b</sup> | Y54503.D   | 50  | 12/03/20 19:41 | LR | n/a       | n/a        | VY2264           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                             | Result | RL  | MDL  | Units | Q |
|------------|--------------------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 63  | 25   | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 2.5 | 0.78 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 2.5 | 0.61 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 2.5 | 1.0  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 13  | 5.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide                     | ND     | 5.0 | 1.3  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride                 | ND     | 2.5 | 0.89 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 2.5 | 0.50 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 5.0 | 1.7  | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 2.5 | 0.75 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 2.5 | 0.98 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 2.5 | 0.69 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 13  | 2.6  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 5.0 | 0.69 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>c</sup> | ND     | 5.0 | 1.3  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 2.5 | 0.81 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 2.5 | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 2.5 | 0.64 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 2.5 | 0.85 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 2.5 | 0.78 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene                 | ND     | 2.5 | 0.81 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene             | ND     | 2.5 | 0.69 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene           | ND     | 2.5 | 0.55 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 2.5 | 1.1  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 2.5 | 0.73 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 2.5 | 0.54 | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 2.5 | 0.89 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 2.5 | 1.2  | ug/l  |   |
| 591-78-6   | 2-Hexanone                           | ND     | 25  | 5.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene                     | ND     | 2.5 | 0.55 | ug/l  |   |
| 79-20-9    | Methyl Acetate                       | ND     | 50  | 13   | ug/l  |   |
| 74-83-9    | Methyl Bromide <sup>c</sup>          | ND     | 13  | 5.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-23 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-10         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                     | Result | RL  | MDL  | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>d</sup> | ND     | 5.0 | 1.3  | ug/l  |   |
| 108-87-2  | Methylcyclohexane            | ND     | 2.5 | 1.1  | ug/l  |   |
| 75-09-2   | Methylene Chloride           | ND     | 13  | 5.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)  | ND     | 13  | 2.5  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether      | ND     | 2.5 | 0.57 | ug/l  |   |
| 100-42-5  | Styrene                      | ND     | 2.5 | 0.56 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane    | ND     | 2.5 | 0.75 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene          | ND     | 2.5 | 0.54 | ug/l  |   |
| 108-88-3  | Toluene                      | ND     | 2.5 | 0.75 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene       | ND     | 5.0 | 1.3  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane        | ND     | 2.5 | 0.62 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane        | ND     | 2.5 | 1.2  | ug/l  |   |
| 79-01-6   | Trichloroethylene            | 74.2   | 2.5 | 0.86 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane       | ND     | 5.0 | 1.3  | ug/l  |   |
| 75-01-4   | Vinyl Chloride               | ND     | 2.5 | 1.0  | ug/l  |   |
| 1330-20-7 | Xylene (total)               | ND     | 7.5 | 1.8  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%    | 106%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 106%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 109%   | 91%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 103%   | 99%    | 83-118% |

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

(b) Confirmation run.

(c) Associated CCV outside of control limits low.

(d) Associated ICV outside control limits high, however sample ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-23 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-11         | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #1 | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P76389.D | 1  | 12/04/20 10:50 | SO | n/a       | n/a        | VP3061           |
| Run #2 |          |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-23 (17-20)   |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-11         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

### VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | 12.4   | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   |        | 83-118% |

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

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | DUP 2                    | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-12               | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

| Run #  | File ID  | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | P76371.D | 500 | 12/03/20 20:17 | SO | n/a       | n/a        | VP3059           |
| Run #2 |          |     |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL    | MDL  | Units | Q |
|------------|-----------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 500   | 160  | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 2500  | 1000 | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane <sup>a</sup>   | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 500   | 170  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 500   | 160  | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25800  | 500   | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 151    | 500   | 110  | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113 <sup>a</sup>      | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 500   | 110  | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | DUP 2                    | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-12               | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                     | Result | RL   | MDL  | Units | Q |
|-----------|------------------------------|--------|------|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup> | ND     | 1000 | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane            | ND     | 500  | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride           | ND     | 2500 | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)  | ND     | 2500 | 500  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether      | ND     | 500  | 110  | ug/l  |   |
| 100-42-5  | Styrene                      | ND     | 500  | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane    | ND     | 500  | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene          | ND     | 500  | 110  | ug/l  |   |
| 108-88-3  | Toluene                      | ND     | 500  | 150  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene       | ND     | 1000 | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane        | ND     | 500  | 120  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane        | ND     | 500  | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene            | ND     | 500  | 170  | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane       | ND     | 1000 | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride               | 2710   | 500  | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)               | ND     | 1500 | 360  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |        | 83-118% |

(a) Associated CCV outside of control limits low.

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

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> TRIP BLANK      |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-13         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Trip Blank Water     |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P76359.D | 1  | 12/03/20 15:18 | SO | n/a       | n/a        | VP3059           |
| Run #2 |          |    |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | 81.9   | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | 52.5   | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane <sup>a</sup>   | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113 <sup>a</sup>      | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | TRIP BLANK               | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-13               | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Trip Blank Water    | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                     | Result | RL  | MDL  | Units | Q |
|-----------|------------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup> | 0.61   | 2.0 | 0.50 | ug/l  | J |
| 108-87-2  | Methylcyclohexane            | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2   | Methylene Chloride           | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)  | ND     | 5.0 | 1.0  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether      | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                      | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane    | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene          | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                      | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene       | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane        | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane        | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene            | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane       | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride               | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)               | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%    |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 106%   |        | 83-118% |

(a) Associated CCV outside of control limits low.

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

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



# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (7-10)    |                                |
| <b>Lab Sample ID:</b> FA81103-14         | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

| Run #  | File ID  | DF  | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|-----|----------------|----|-----------|------------|------------------|
| Run #1 | P76396.D | 2.5 | 12/04/20 13:44 | SO | n/a       | n/a        | VP3061           |
| Run #2 |          |     |                |    |           |            |                  |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 63  | 25   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 2.5 | 0.78 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 2.5 | 0.61 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 2.5 | 1.0  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 13  | 5.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 5.0 | 1.3  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 2.5 | 0.89 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 2.5 | 0.50 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 5.0 | 1.7  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 2.5 | 0.75 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 2.5 | 0.98 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 2.5 | 0.69 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 13  | 2.6  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 5.0 | 0.69 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 5.0 | 1.3  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 2.5 | 0.81 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 2.5 | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 2.5 | 0.64 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 2.5 | 0.85 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 2.5 | 0.78 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 2.5 | 0.81 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 191    | 2.5 | 0.69 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 1.4    | 2.5 | 0.55 | ug/l  | J |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 2.5 | 1.1  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 2.5 | 0.73 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 2.5 | 0.54 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 2.5 | 0.89 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 2.5 | 1.2  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 25  | 5.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 2.5 | 0.55 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 50  | 13   | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 13  | 5.0  | ug/l  |   |

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

# Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-14         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                    | Result | RL  | MDL  | Units | Q |
|-----------|-----------------------------|--------|-----|------|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 5.0 | 1.3  | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 2.5 | 1.1  | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 13  | 5.0  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 13  | 2.5  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 2.5 | 0.57 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 2.5 | 0.56 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 2.5 | 0.75 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 2.5 | 0.54 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 2.5 | 0.75 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 5.0 | 1.3  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 2.5 | 0.62 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 2.5 | 1.2  | ug/l  |   |
| 79-01-6   | Trichloroethylene           | 1.8    | 2.5 | 0.86 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane      | ND     | 5.0 | 1.3  | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 12.9   | 2.5 | 1.0  | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 7.5 | 1.8  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 79-125% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   |        | 83-118% |

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-24 (17-20)   |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-15         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

| Run #  | File ID  | DF    | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|-------|----------------|----|-----------|------------|------------------|
| Run #1 | P76373.D | 500   | 12/03/20 21:07 | SO | n/a       | n/a        | VP3059           |
| Run #2 | P76397.D | 10000 | 12/04/20 14:09 | SO | n/a       | n/a        | VP3061           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL    | MDL  | Units | Q |
|------------|-----------------------------|--------|-------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 13000 | 5000 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 500   | 160  | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 500   | 120  | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 500   | 200  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 2500  | 1000 | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 1000  | 270  | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 500   | 180  | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 500   | 100  | ug/l  |   |
| 75-00-3    | Chloroethane <sup>a</sup>   | ND     | 1000  | 330  | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 500   | 150  | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 500   | 200  | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 500   | 140  | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2500  | 520  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1000  | 140  | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 1000  | 250  | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 500   | 160  | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 500   | 110  | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 500   | 130  | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 500   | 170  | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 500   | 160  | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | 345    | 500   | 160  | ug/l  | J |
| 156-59-2   | cis-1,2-Dichloroethylene    | 2810   | 500   | 140  | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 500   | 110  | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 500   | 210  | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 500   | 150  | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 500   | 110  | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 500   | 180  | ug/l  |   |
| 76-13-1    | Freon 113 <sup>a</sup>      | ND     | 500   | 240  | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5000  | 1000 | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 500   | 110  | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 10000 | 2500 | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 2500  | 1000 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                          |                        |          |
|--------------------------|--------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | A2-24 (17-20)            | <b>Date Sampled:</b>   | 11/20/20 |
| <b>Lab Sample ID:</b>    | FA81103-15               | <b>Date Received:</b>  | 11/21/20 |
| <b>Matrix:</b>           | AQ - Ground Water        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D              |                        |          |
| <b>Project:</b>          | Brenntag; Charleston, SC |                        |          |

## VOA TCL 4.2 List

| CAS No.   | Compound                     | Result              | RL    | MDL  | Units | Q |
|-----------|------------------------------|---------------------|-------|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup> | ND                  | 1000  | 250  | ug/l  |   |
| 108-87-2  | Methylcyclohexane            | ND                  | 500   | 220  | ug/l  |   |
| 75-09-2   | Methylene Chloride           | ND                  | 2500  | 1000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)  | ND                  | 2500  | 500  | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether      | ND                  | 500   | 110  | ug/l  |   |
| 100-42-5  | Styrene                      | ND                  | 500   | 110  | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane    | ND                  | 500   | 150  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene          | 331                 | 500   | 110  | ug/l  | J |
| 108-88-3  | Toluene                      | ND                  | 500   | 150  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene       | ND                  | 1000  | 250  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane        | ND                  | 500   | 120  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane        | ND                  | 500   | 230  | ug/l  |   |
| 79-01-6   | Trichloroethylene            | 316000 <sup>b</sup> | 10000 | 3500 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane       | ND                  | 1000  | 250  | ug/l  |   |
| 75-01-4   | Vinyl Chloride               | ND                  | 500   | 200  | ug/l  |   |
| 1330-20-7 | Xylene (total)               | ND                  | 1500  | 360  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%    | 102%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 103%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   | 103%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104%   | 102%   | 83-118% |

(a) Associated CCV outside of control limits low.

(b) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-16         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID  | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | P76392.D | 5  | 12/04/20 12:05 | SO | n/a       | n/a        | VP3061           |
| Run #2 | P76374.D | 25 | 12/03/20 21:32 | SO | n/a       | n/a        | VP3059           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result           | RL  | MDL | Units | Q |
|------------|-----------------------------|------------------|-----|-----|-------|---|
| 67-64-1    | Acetone                     | ND               | 130 | 50  | ug/l  |   |
| 71-43-2    | Benzene                     | ND               | 5.0 | 1.6 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND               | 5.0 | 1.2 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND               | 5.0 | 2.0 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND               | 25  | 10  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND               | 10  | 2.7 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND               | 5.0 | 1.8 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND               | 5.0 | 1.0 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND               | 10  | 3.3 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND               | 5.0 | 1.5 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND               | 5.0 | 2.0 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND               | 5.0 | 1.4 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND               | 25  | 5.2 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND               | 10  | 1.4 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND               | 10  | 2.5 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND               | 5.0 | 1.6 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND               | 5.0 | 1.1 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND               | 5.0 | 1.3 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND               | 5.0 | 1.7 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND               | 5.0 | 1.6 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND               | 5.0 | 1.6 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | 442 <sup>a</sup> | 25  | 6.9 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 7.0              | 5.0 | 1.1 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND               | 5.0 | 2.1 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND               | 5.0 | 1.5 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND               | 5.0 | 1.1 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND               | 5.0 | 1.8 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND               | 5.0 | 2.4 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND               | 50  | 10  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND               | 5.0 | 1.1 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND               | 100 | 25  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND               | 25  | 10  | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (7-10)    |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Lab Sample ID:</b> FA81103-16         |  | <b>Date Received:</b> 11/21/20 |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Percent Solids:</b> n/a     |
| <b>Method:</b> SW846 8260D               |  |                                |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

**VOA TCL 4.2 List**

| CAS No.   | Compound                    | Result | RL  | MDL | Units | Q |
|-----------|-----------------------------|--------|-----|-----|-------|---|
| 74-87-3   | Methyl Chloride             | ND     | 10  | 2.5 | ug/l  |   |
| 108-87-2  | Methylcyclohexane           | ND     | 5.0 | 2.2 | ug/l  |   |
| 75-09-2   | Methylene Chloride          | ND     | 25  | 10  | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK) | ND     | 25  | 5.0 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether     | ND     | 5.0 | 1.1 | ug/l  |   |
| 100-42-5  | Styrene                     | ND     | 5.0 | 1.1 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane   | ND     | 5.0 | 1.5 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene         | ND     | 5.0 | 1.1 | ug/l  |   |
| 108-88-3  | Toluene                     | ND     | 5.0 | 1.5 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene      | ND     | 10  | 2.5 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane       | ND     | 5.0 | 1.2 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane       | ND     | 5.0 | 2.3 | ug/l  |   |
| 79-01-6   | Trichloroethylene           | ND     | 5.0 | 1.7 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane      | ND     | 10  | 2.5 | ug/l  |   |
| 75-01-4   | Vinyl Chloride              | 20.9   | 5.0 | 2.0 | ug/l  |   |
| 1330-20-7 | Xylene (total)              | ND     | 15  | 3.6 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   | 102%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 104%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 102%   | 104%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 102%   | 102%   | 83-118% |

(a) Result is from Run# 2

---

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

## Report of Analysis

|  |  |                                |
|--|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (17-20)   |  |                                |
| <b>Lab Sample ID:</b> FA81103-17         |  | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         |  | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               |  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |  |                                |

|        | File ID  | DF   | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|------|----------------|----|-----------|------------|------------------|
| Run #1 | P76375.D | 1000 | 12/03/20 21:57 | SO | n/a       | n/a        | VP3059           |
| Run #2 | P76398.D | 5000 | 12/04/20 14:34 | SO | n/a       | n/a        | VP3061           |

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

## VOA TCL 4.2 List

| CAS No.    | Compound                    | Result | RL    | MDL   | Units | Q |
|------------|-----------------------------|--------|-------|-------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25000 | 10000 | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1000  | 310   | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1000  | 240   | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1000  | 410   | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5000  | 2000  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2000  | 530   | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1000  | 360   | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1000  | 200   | ug/l  |   |
| 75-00-3    | Chloroethane <sup>a</sup>   | ND     | 2000  | 670   | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1000  | 300   | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1000  | 390   | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1000  | 280   | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5000  | 1000  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2000  | 280   | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2000  | 500   | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1000  | 320   | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1000  | 220   | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1000  | 260   | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1000  | 340   | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1000  | 310   | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | 460    | 1000  | 320   | ug/l  | J |
| 156-59-2   | cis-1,2-Dichloroethylene    | 17400  | 1000  | 280   | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | 1070   | 1000  | 220   | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1000  | 430   | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1000  | 290   | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1000  | 210   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1000  | 360   | ug/l  |   |
| 76-13-1    | Freon 113 <sup>a</sup>      | ND     | 1000  | 480   | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10000 | 2000  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1000  | 220   | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20000 | 5000  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5000  | 2000  | ug/l  |   |

ND = Not detected      MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

|  |                                |
|--|--------------------------------|
| <b>Client Sample ID:</b> A2-25 (17-20)   |                                |
| <b>Lab Sample ID:</b> FA81103-17         | <b>Date Sampled:</b> 11/20/20  |
| <b>Matrix:</b> AQ - Ground Water         | <b>Date Received:</b> 11/21/20 |
| <b>Method:</b> SW846 8260D               | <b>Percent Solids:</b> n/a     |
| <b>Project:</b> Brenntag; Charleston, SC |                                |

## VOA TCL 4.2 List

| CAS No.   | Compound                     | Result              | RL   | MDL  | Units | Q |
|-----------|------------------------------|---------------------|------|------|-------|---|
| 74-87-3   | Methyl Chloride <sup>a</sup> | ND                  | 2000 | 500  | ug/l  |   |
| 108-87-2  | Methylcyclohexane            | ND                  | 1000 | 440  | ug/l  |   |
| 75-09-2   | Methylene Chloride           | ND                  | 5000 | 2000 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone (MIBK)  | ND                  | 5000 | 1000 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether      | ND                  | 1000 | 230  | ug/l  |   |
| 100-42-5  | Styrene                      | ND                  | 1000 | 220  | ug/l  |   |
| 79-34-5   | 1,1,1,2-Tetrachloroethane    | ND                  | 1000 | 300  | ug/l  |   |
| 127-18-4  | Tetrachloroethylene          | ND                  | 1000 | 220  | ug/l  |   |
| 108-88-3  | Toluene                      | ND                  | 1000 | 300  | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene       | ND                  | 2000 | 500  | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane        | ND                  | 1000 | 250  | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane        | ND                  | 1000 | 470  | ug/l  |   |
| 79-01-6   | Trichloroethylene            | 313000 <sup>b</sup> | 5000 | 1700 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane       | ND                  | 2000 | 500  | ug/l  |   |
| 75-01-4   | Vinyl Chloride               | ND                  | 1000 | 410  | ug/l  |   |
| 1330-20-7 | Xylene (total)               | ND                  | 3000 | 720  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 102%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101%   | 101%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 105%   | 102%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 102%   | 102%   | 83-118% |

(a) Associated CCV outside of control limits low.

(b) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

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



Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

FA81103

|                                      |   |                                  |   |              |  |                            |                             |  |  |  |  |  |  |
|--------------------------------------|---|----------------------------------|---|--------------|--|----------------------------|-----------------------------|--|--|--|--|--|--|
| Send Results to:                     | Contact & Company Name<br>CHARLES ARCADIS<br>Aurora ARCADIS |                                  | Telephone<br>706-029-4421                     |              | Preservative<br>0  |                            |                             |  |  |  |  |  | <b>Preservation Key:</b><br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. HNO <sub>3</sub><br>D. NaOH<br>E. None<br>F. Other: _____<br>G. Other: _____<br>H. Other: _____<br><b>Matrix Key:</b><br>SO - Soil<br>W - Water<br>T - Tissue<br>SE - Sediment<br>SL - Sludge<br>A - Air<br><b>Container Information Key:</b><br>1. 40 ml Vial<br>2. 1 L Amber<br>3. 250 ml Plastic<br>4. 500 ml Plastic<br>5. Encore<br>6. 2 oz. Glass<br>7. 4 oz. Glass<br>8. 8 oz. Glass<br>9. Other: _____<br>10. Other: _____<br><b>Remarks</b> |
|                                      | Address<br>1450 Greene St Ste 200                           |                                  | Fax   |              | # of Containers<br>3   | Container Information<br>1 | PARAMETER ANALYSIS & METHOD |  |  |  |  |  |  |
|                                      | City<br>Augusta GA 30901                                    |                                  | E-mail Address<br>Charles.Arcadis@arcadis.com |              | Project Name/Location (City, State)<br>Brewster Charles<br>Project #<br>30902543<br>Sampler's Printed Name<br>C. Arcadis<br>Sampler's Signature<br>C. B. Lee<br>02400<br>3000<br>40 ml W |                            |                             |  |  |  |  |  |  |
|                                      | Project Name/Location (City, State)<br>Brewster Charles     |                                  | Project #<br>30902543                         |              |  |                            |                             |  |  |  |  |  |  |
| Sampler's Printed Name<br>C. Arcadis |   | Sampler's Signature<br>C. B. Lee |   |              |  |                            |                             |  |  |  |  |  |  |
| Sample ID                            | Collection  |                                  | Type (✓)                                      |              | Matrix   |                            |                             |  |  |  |  |  |  |
|                                      | Date  | Time                             | Comp  | Grab         |  |                            |                             |  |  |  |  |  |  |
| 1 AH2-16 (7-10)                      | 11/20/20  | 8:42                             | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 2 AH2-16 (17-20)                     | 11  | 8:49                             | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 3 AH2-17 (7-10)                      | 11  | 9:01                             | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 4 AH2-17 (17-20)                     | 11  | 9:20                             | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 5 AH2-19 (7-10)                      | 11  | 9:32                             | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 6 AH2-19 (17-20)                     | 11  | 9:44                             | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 7 AH2-18 (7-10)                      | 11  | 10:19                            | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| <del>AH2-18 (17-20)</del>            | <del>11</del>   |                                  | <del>X</del>                                  | <del>W</del> | <del>3</del>   | DRY                        |                             |  |  |  |  |  |  |
| 8 AH2-22 (7-10)                      | 11  | 11:27                            | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 9 AH2-22 (17-20)                     | 11  | 11:33                            | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 10 AH2-23 (7-10)                     | 11  | 11:50                            | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 11 AH2-23 (17-20)                    | 11  | 12:01                            | X   | W            | 3  |                            |                             |  |  |  |  |  |  |
| 12 DU #2                             |   |                                  |   |              | 3  |                            |                             |  |  |  |  |  |  |
| 13 TRIP Back                         |   |                                  |   |              | 3  |                            |                             |  |  |  |  |  |  |

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (✓): \_\_\_\_\_

| Laboratory Information and Receipt                             |   | Relinquished By             |                        | Received By            |                           | Relinquished By        |                           | Laboratory Received By     |                        |
|--|---|-----------------------------|------------------------|------------------------|---------------------------|------------------------|---------------------------|----------------------------|------------------------|
| Lab Name: 565  | Cooler Custody Seal (✓)   | Printed Name: Charles Lee   | Signature: [Signature] | Printed Name: Fedex    | Signature: [Signature]    | Printed Name: Fedex    | Signature: [Signature]    | Printed Name: Bryan Gialdo | Signature: [Signature] |
| <input checked="" type="checkbox"/> Cooler packed with ice (✓) | <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Signature: C. B. Lee        | Firm: Arcadis          | Signature: [Signature] | Firm/Courier: [Signature] | Signature: [Signature] | Firm/Courier: [Signature] | Signature: [Signature]     | Firm: SLS              |
| Specify Turnaround Requirements:                               | Sample Receipt:   | Date/Time: 11/20/2020 17:30 | Date/Time: [Signature] | Date/Time: [Signature] | Date/Time: [Signature]    | Date/Time: [Signature] | Date/Time: [Signature]    | Date/Time: 11/21/20 10:30  | Date/Time: [Signature] |
| Shipping Tracking #:   | Condition/Cooler Temp: 5.2  |                             |                        |                        |                           |                        |                           |                            |                        |

20730826 CoC AR Form 08.27.2015 Distribution: WHITE - Laboratory returns with results YELLOW - Lab copy PINK - Retained by Arcadis



ID#:  

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page    of   

Lab Work Order #  

| Send Results to:  | Contact & Company Name: <u>ARCADIS Auburn AR Corp</u> | Telephone: <u>706-829-4421</u>          | Preservative: <u>B</u> |                   |   | <b>Preservation Key:</b><br>A. H <sub>2</sub> SO <sub>4</sub><br>B. HCL<br>C. NaOH<br>D. None<br>E. Other: _____<br>F. Other: _____<br>G. Other: _____<br>H. Other: _____<br><br><b>Matrix Key:</b><br>SO - Soil<br>W - Water<br>T - Tissue<br><br>SE - Sediment<br>SL - Sludge<br>A - Air<br><br>NL - NAPL/Oil<br>SW - Sample Wipe<br>Other: _____ |
|---|---|---|------------------------|-------------------|---|---|
|   | Address: <u>1450 Greene St Ste 230</u>                | City: <u>AUGUSTA GA 30901</u>           | State: <u>GA</u>       | Zip: <u>30901</u> | E-mail Address: <u>Charles.Watson@arcadis.com</u> |   |
| Project Name/Location (City, State): <u>Brennidy Charles h</u>  | Project #: <u>30062543</u>                            | Sample Collected Name: <u>C. Watson</u> |                        |                   |   | <b>REMARKS</b>  |
| Sample Collector's Signature: <u>CB Jew</u>   |   | Sample ID                               |                        |                   |   |   |
| Sample ID   | Collection  |   | Type (✓)               |                   | Matrix  |   |
|   | Date  | Time                                    | Comp                   | Grab              |   |   |
| 14 <u>A#2-24 (7-10)</u>   | <u>11/20/20</u>                                       | <u>12:59</u>                            | <u>X</u>               | <u>W</u>          | <u>3</u>  |   |
| 15 <u>A#2-24 (17-20)</u>  | <u>11/20/20</u>                                       | <u>13:07</u>                            | <u>X</u>               | <u>W</u>          | <u>3</u>  |   |
| 16 <u>A#2-25 (7-10)</u>   | <u>11/20/20</u>                                       | <u>13:20</u>                            | <u>X</u>               | <u>W</u>          | <u>3</u>  |   |
| 17 <u>A#2-25 (17-20)</u>  | <u>11/20/20</u>                                       | <u>13:26</u>                            | <u>X</u>               | <u>W</u>          | <u>3</u>  |   |
| Special Instructions/Comments: <span style="float: right;"><input type="checkbox"/> Special QA/QC Instructions(✓):</span> |   |   |                        |                   |   |   |

~~INITIALS~~  
~~ARCADIS~~

| Laboratory Information and Receipt |  | Relinquished By                     |                                    | Received By                |                  | Relinquished By            |                  | Laboratory Received By             |                                  |
|------------------------------------|--|-------------------------------------|------------------------------------|----------------------------|------------------|----------------------------|------------------|------------------------------------|----------------------------------|
| Lab Name: <u>SGS</u>               | Cooler Custody Seal (✓)<br><input type="checkbox"/> Intact <input type="checkbox"/> Not Intact | Printed Name: <u>Charles Watson</u> | Signature: <u>CB Jew</u>           | Printed Name: <u>Fedex</u> | Signature: _____ | Printed Name: <u>Fedex</u> | Signature: _____ | Printed Name: <u>Bryan Cirallo</u> | Signature: <u>am jrw</u>         |
| Specify Turnaround Requirements:   | Sample Receipt: _____  | Firm: <u>ARCADIS</u>                | Date/Time: <u>11/20/2020 17:30</u> | Firm/Courier: _____        | Date/Time: _____ | Firm/Courier: _____        | Date/Time: _____ | Firm: <u>SGS</u>                   | Date/Time: <u>11/20/20 10:30</u> |
| Shipping Tracking #: _____         | Condition/Cooler Temp: <u>5.2</u>  |                                     |                                    |                            |                  |                            |                  |                                    |                                  |

20730826 CoC AR Form 08.27.2015      Distribution:      WHITE - Laboratory returns with results      YELLOW - Lab copy      PINK - Retained by Arcadis

## SGS Sample Receipt Summary

Job Number: FA81103

Client: ARCADIS

Project: BRENNTAJ CHARLESTON

Date / Time Received: 11/21/2020 10:30:00 AM

Delivery Method: FEDEX

Airbill #s: 923153807373

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0);

Cooler Temps (Corrected) °C: Cooler 1: (5.2);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Sample Information**

Y or N N/A

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

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments SAMPLE A#2-25(7-10) RECEIVED WITH HEADSPACE

SM001  
Rev. Date 05/24/17

Technician: BRYANG

Date: 11/21/2020 10:30:00

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

**FA81103: Chain of Custody**

**Page 3 of 3**

4.1  
4

## MS Volatiles

5

### QC Data Summaries

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Includes the following where applicable:

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

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VY2264-MB | Y54486.D | 1  | 12/03/20 | LR | n/a       | n/a        | VY2264           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-5, FA81103-6, FA81103-7, FA81103-8, FA81103-9

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VY2264-MB | Y54486.D | 1  | 12/03/20 | LR | n/a       | n/a        | VY2264           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-5, FA81103-6, FA81103-7, FA81103-8, FA81103-9

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   | 79-125% |
| 2037-26-5  | Toluene-D8            | 90%    | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    | 83-118% |

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3059-MB | P76357.D | 1  | 12/03/20 | SO | n/a       | n/a        | VP3059           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-12, FA81103-13, FA81103-15, FA81103-16, FA81103-17

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |



## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3059-MB | P76357.D | 1  | 12/03/20 | SO | n/a       | n/a        | VP3059           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-12, FA81103-13, FA81103-15, FA81103-16, FA81103-17

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 100% 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% 79-125% |
| 2037-26-5  | Toluene-D8            | 105% 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104% 83-118% |

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|----------|----|----------|----|-----------|------------|------------------|
| VP3061-MB <sup>a</sup> | P76387.D | 1  | 12/04/20 | SO | n/a       | n/a        | VP3061           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-11, FA81103-14, FA81103-15, FA81103-16, FA81103-17

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample                 | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|----------|----|----------|----|-----------|------------|------------------|
| VP3061-MB <sup>a</sup> | P76387.D | 1  | 12/04/20 | SO | n/a       | n/a        | VP3061           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-11, FA81103-14, FA81103-15, FA81103-16, FA81103-17

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits |         |
|------------|-----------------------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%    | 79-125% |
| 2037-26-5  | Toluene-D8            | 104%   | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 108%   | 83-118% |

(a) Sample was treated with an anti-foaming agent.

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5844-MB | C0145511.D | 1  | 12/07/20 | SO | n/a       | n/a        | VC5844           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-4, FA81103-9, FA81103-10

| CAS No.    | Compound                    | Result | RL  | MDL  | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 25  | 10   | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0 | 0.24 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0 | 0.41 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 5.0 | 2.0  | ug/l  |   |
| 75-15-0    | Carbon Disulfide            | ND     | 2.0 | 0.53 | ug/l  |   |
| 56-23-5    | Carbon Tetrachloride        | ND     | 1.0 | 0.36 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0 | 0.20 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 2.0 | 0.67 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0 | 0.30 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 1.0 | 0.39 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0 | 0.28 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 5.0 | 1.0  | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 2.0 | 0.28 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0 | 0.50 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0 | 0.32 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0 | 0.22 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0 | 0.26 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0 | 0.34 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0 | 0.31 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethylene        | ND     | 1.0 | 0.32 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND     | 1.0 | 0.28 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND     | 1.0 | 0.22 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0 | 0.43 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0 | 0.29 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0 | 0.21 | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0 | 0.36 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 1.0 | 0.48 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 10  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 20  | 5.0  | ug/l  |   |
| 74-83-9    | Methyl Bromide              | ND     | 5.0 | 2.0  | ug/l  |   |
| 74-87-3    | Methyl Chloride             | ND     | 2.0 | 0.50 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 1.0 | 0.44 | ug/l  |   |
| 75-09-2    | Methylene Chloride          | ND     | 5.0 | 2.0  | ug/l  |   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND     | 5.0 | 1.0  | ug/l  |   |

## Method Blank Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5844-MB | C0145511.D | 1  | 12/07/20 | SO | n/a       | n/a        | VC5844           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-4, FA81103-9, FA81103-10

| CAS No.   | Compound                  | Result | RL  | MDL  | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND     | 1.0 | 0.23 | ug/l  |   |
| 100-42-5  | Styrene                   | ND     | 1.0 | 0.22 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND     | 1.0 | 0.30 | ug/l  |   |
| 127-18-4  | Tetrachloroethylene       | ND     | 1.0 | 0.22 | ug/l  |   |
| 108-88-3  | Toluene                   | ND     | 1.0 | 0.30 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND     | 2.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane     | ND     | 1.0 | 0.25 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane     | ND     | 1.0 | 0.47 | ug/l  |   |
| 79-01-6   | Trichloroethylene         | ND     | 1.0 | 0.35 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane    | ND     | 2.0 | 0.50 | ug/l  |   |
| 75-01-4   | Vinyl Chloride            | ND     | 1.0 | 0.41 | ug/l  |   |
| 1330-20-7 | Xylene (total)            | ND     | 3.0 | 0.72 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 96% 83-118%  |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% 79-125% |
| 2037-26-5  | Toluene-D8            | 109% 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 104% 83-118% |

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VY2264-BS | Y54483.D | 1  | 12/03/20 | LR | n/a       | n/a        | VY2264           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-5, FA81103-6, FA81103-7, FA81103-8, FA81103-9

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 88.3     | 71    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 22.5     | 90    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 24.3     | 97    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 20.9     | 84    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 92.5     | 74    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 24.5     | 98    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 26.8     | 107   | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 20.6     | 82    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 31.3     | 125   | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 23.8     | 95    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 23.9     | 96    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 21.6     | 86    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 17.0     | 68    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 19.3     | 77    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 23.4     | 94    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 19.5     | 78*   | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 20.1     | 80*   | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 19.7     | 79    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 23.8     | 95    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 22.3     | 89    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 23.6     | 94    | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 23.2     | 93    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 22.7     | 91    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 21.9     | 88    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 22.7     | 91    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 21.2     | 85    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 21.6     | 86    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 22.9     | 92    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 94.7     | 76    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 21.0     | 84    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 105      | 84    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 25.7     | 103   | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 26.3     | 105   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 25.9     | 104   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 23.9     | 96    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 91.3     | 73    | 66-122 |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VY2264-BS | Y54483.D | 1  | 12/03/20 | LR | n/a       | n/a        | VY2264           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-5, FA81103-6, FA81103-7, FA81103-8, FA81103-9

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 20.9     | 84    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 21.2     | 85    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 17.9     | 72    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 23.1     | 92    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 19.4     | 78*   | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 20.9     | 84    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 24.9     | 100   | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 19.6     | 78    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 24.0     | 96    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 28.8     | 115   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 24.8     | 99    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 61.5     | 82    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 79-125% |
| 2037-26-5  | Toluene-D8            | 92%  | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 94%  | 83-118% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3059-BS | P76354.D | 1  | 12/03/20 | SO | n/a       | n/a        | VP3059           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-12, FA81103-13, FA81103-15, FA81103-16, FA81103-17

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 108      | 86    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 22.3     | 89    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 23.6     | 94    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 21.4     | 86    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 106      | 85    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 23.2     | 93    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 24.8     | 99    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 22.2     | 89    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 20.4     | 82    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 22.7     | 91    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 24.0     | 96    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 22.5     | 90    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 20.5     | 82    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 21.2     | 85    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 21.5     | 86    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 22.9     | 92    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 23.6     | 94    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 21.9     | 88    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 23.9     | 96    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 21.1     | 84    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 25.1     | 100   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 24.0     | 96    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 23.1     | 92    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 22.6     | 90    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 20.5     | 82    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 22.2     | 89    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 22.5     | 90    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 21.2     | 85    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 104      | 83    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 22.5     | 90    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 111      | 89    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 23.4     | 94    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 21.2     | 85    | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 26.6     | 106   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 20.9     | 84    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 105      | 84    | 66-122 |

\* = Outside of Control Limits.

5.2.2  
5



# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3059-BS | P76354.D | 1  | 12/03/20 | SO | n/a       | n/a        | VP3059           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-12, FA81103-13, FA81103-15, FA81103-16, FA81103-17

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 22.7     | 91    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 22.0     | 88    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 21.7     | 87    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 24.0     | 96    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 21.8     | 87    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 22.3     | 89    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 23.7     | 95    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 22.1     | 88    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 22.8     | 91    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 22.3     | 89    | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 21.8     | 87    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 68.6     | 91    | 80-126 |

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

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3061-BS | P76384.D | 1  | 12/04/20 | SO | n/a       | n/a        | VP3061           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-11, FA81103-14, FA81103-15, FA81103-16, FA81103-17

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 118      | 94    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 22.7     | 91    | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 24.5     | 98    | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 22.6     | 90    | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 119      | 95    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 22.8     | 91    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 24.5     | 98    | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 22.2     | 89    | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 24.9     | 100   | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 23.2     | 93    | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 24.2     | 97    | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 22.9     | 92    | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 21.1     | 84    | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 21.7     | 87    | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 24.9     | 100   | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 22.1     | 88    | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 23.1     | 92    | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 21.4     | 86    | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 24.2     | 97    | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 21.9     | 88    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 24.8     | 99    | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 23.6     | 94    | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 23.3     | 93    | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 23.0     | 92    | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 21.2     | 85    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 22.2     | 89    | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 22.6     | 90    | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 21.2     | 85    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 121      | 97    | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 22.4     | 90    | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 119      | 95    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 24.3     | 97    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 24.9     | 100   | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 27.2     | 109   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 20.7     | 83    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 117      | 94    | 66-122 |

\* = Outside of Control Limits.

5.2.3  
5

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VP3061-BS | P76384.D | 1  | 12/04/20 | SO | n/a       | n/a        | VP3061           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-11, FA81103-14, FA81103-15, FA81103-16, FA81103-17

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 22.9     | 92    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 21.9     | 88    | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 21.6     | 86    | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 24.0     | 96    | 76-135 |
| 108-88-3  | Toluene                   | 25         | 21.9     | 88    | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 21.1     | 84    | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 23.8     | 95    | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 22.8     | 91    | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 23.1     | 92    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 26.1     | 104   | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 24.7     | 99    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 68.6     | 91    | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 79-125% |
| 2037-26-5  | Toluene-D8            | 101% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100% | 83-118% |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5844-BS | C0145509.D | 1  | 12/07/20 | SO | n/a       | n/a        | VC5844           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-4, FA81103-9, FA81103-10

| CAS No.    | Compound                    | Spike ug/l | BSP ug/l | BSP % | Limits |
|------------|-----------------------------|------------|----------|-------|--------|
| 67-64-1    | Acetone                     | 125        | 116      | 93    | 50-147 |
| 71-43-2    | Benzene                     | 25         | 25.6     | 102   | 81-122 |
| 75-27-4    | Bromodichloromethane        | 25         | 26.2     | 105   | 79-123 |
| 75-25-2    | Bromoform                   | 25         | 27.2     | 109   | 66-123 |
| 78-93-3    | 2-Butanone (MEK)            | 125        | 121      | 97    | 56-143 |
| 75-15-0    | Carbon Disulfide            | 25         | 24.4     | 98    | 66-148 |
| 56-23-5    | Carbon Tetrachloride        | 25         | 27.9     | 112   | 76-136 |
| 108-90-7   | Chlorobenzene               | 25         | 28.0     | 112   | 82-124 |
| 75-00-3    | Chloroethane                | 25         | 21.8     | 87    | 62-144 |
| 67-66-3    | Chloroform                  | 25         | 25.9     | 104   | 80-124 |
| 110-82-7   | Cyclohexane                 | 25         | 26.5     | 106   | 73-138 |
| 124-48-1   | Dibromochloromethane        | 25         | 28.4     | 114   | 78-122 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 25         | 25.6     | 102   | 64-123 |
| 106-93-4   | 1,2-Dibromoethane           | 25         | 25.9     | 104   | 75-120 |
| 75-71-8    | Dichlorodifluoromethane     | 25         | 20.5     | 82    | 42-167 |
| 95-50-1    | 1,2-Dichlorobenzene         | 25         | 28.3     | 113   | 82-124 |
| 541-73-1   | 1,3-Dichlorobenzene         | 25         | 29.1     | 116   | 84-125 |
| 106-46-7   | 1,4-Dichlorobenzene         | 25         | 27.8     | 111   | 78-120 |
| 75-34-3    | 1,1-Dichloroethane          | 25         | 26.9     | 108   | 81-122 |
| 107-06-2   | 1,2-Dichloroethane          | 25         | 24.2     | 97    | 75-125 |
| 75-35-4    | 1,1-Dichloroethylene        | 25         | 28.1     | 112   | 78-137 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25         | 25.7     | 103   | 78-120 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 25         | 27.3     | 109   | 76-127 |
| 78-87-5    | 1,2-Dichloropropane         | 25         | 25.3     | 101   | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 25         | 24.2     | 97    | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 25         | 28.6     | 114   | 80-120 |
| 100-41-4   | Ethylbenzene                | 25         | 28.8     | 115   | 81-121 |
| 76-13-1    | Freon 113                   | 25         | 22.7     | 91    | 72-134 |
| 591-78-6   | 2-Hexanone                  | 125        | 130      | 104   | 61-129 |
| 98-82-8    | Isopropylbenzene            | 25         | 29.5     | 118   | 83-132 |
| 79-20-9    | Methyl Acetate              | 125        | 118      | 94    | 65-126 |
| 74-83-9    | Methyl Bromide              | 25         | 17.9     | 72    | 59-143 |
| 74-87-3    | Methyl Chloride             | 25         | 22.7     | 91    | 50-159 |
| 108-87-2   | Methylcyclohexane           | 25         | 27.6     | 110   | 76-129 |
| 75-09-2    | Methylene Chloride          | 25         | 22.9     | 92    | 69-135 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 125        | 139      | 111   | 66-122 |

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample    | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|------------|----|----------|----|-----------|------------|------------------|
| VC5844-BS | C0145509.D | 1  | 12/07/20 | SO | n/a       | n/a        | VC5844           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-4, FA81103-9, FA81103-10

| CAS No.   | Compound                  | Spike ug/l | BSP ug/l | BSP % | Limits |
|-----------|---------------------------|------------|----------|-------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether   | 25         | 23.3     | 93    | 72-117 |
| 100-42-5  | Styrene                   | 25         | 27.5     | 110   | 78-119 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | 25         | 28.2     | 113   | 72-120 |
| 127-18-4  | Tetrachloroethylene       | 25         | 30.9     | 124   | 76-135 |
| 108-88-3  | Toluene                   | 25         | 28.5     | 114   | 80-120 |
| 120-82-1  | 1,2,4-Trichlorobenzene    | 25         | 27.4     | 110   | 73-129 |
| 71-55-6   | 1,1,1-Trichloroethane     | 25         | 27.1     | 108   | 75-130 |
| 79-00-5   | 1,1,2-Trichloroethane     | 25         | 28.0     | 112   | 76-119 |
| 79-01-6   | Trichloroethylene         | 25         | 24.8     | 99    | 81-126 |
| 75-69-4   | Trichlorofluoromethane    | 25         | 24.4     | 98    | 71-156 |
| 75-01-4   | Vinyl Chloride            | 25         | 23.8     | 95    | 69-159 |
| 1330-20-7 | Xylene (total)            | 75         | 88.1     | 117   | 80-126 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 96%  | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 79-125% |
| 2037-26-5  | Toluene-D8            | 108% | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 83-118% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|----------|----|----------|----|-----------|------------|------------------|
| FA81097-9MS  | Y54506.D | 10 | 12/03/20 | LR | n/a       | n/a        | VY2264           |
| FA81097-9MSD | Y54507.D | 10 | 12/03/20 | LR | n/a       | n/a        | VY2264           |
| FA81097-9    | Y54490.D | 5  | 12/03/20 | LR | n/a       | n/a        | VY2264           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-5, FA81103-6, FA81103-7, FA81103-8, FA81103-9

| CAS No.    | Compound                    | FA81097-9<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|-----------|
| 67-64-1    | Acetone                     | ND                |                    | 1250       | 1050    | 84            | 1250        | 1200     | 96  | 13                | 50-147/21 |
| 71-43-2    | Benzene                     | ND                |                    | 250        | 213     | 85            | 250         | 230      | 92  | 8                 | 81-122/14 |
| 75-27-4    | Bromodichloromethane        | ND                |                    | 250        | 226     | 90            | 250         | 252      | 101 | 11                | 79-123/19 |
| 75-25-2    | Bromoform                   | ND                |                    | 250        | 182     | 73            | 250         | 211      | 84  | 15                | 66-123/21 |
| 78-93-3    | 2-Butanone (MEK)            | ND                |                    | 1250       | 930     | 74            | 1250        | 1070     | 86  | 14                | 56-143/18 |
| 75-15-0    | Carbon Disulfide            | ND                |                    | 250        | 224     | 90            | 250         | 244      | 98  | 9                 | 66-148/23 |
| 56-23-5    | Carbon Tetrachloride        | ND                |                    | 250        | 236     | 94            | 250         | 257      | 103 | 9                 | 76-136/23 |
| 108-90-7   | Chlorobenzene               | ND                |                    | 250        | 189     | 76*           | 250         | 210      | 84  | 11                | 82-124/14 |
| 75-00-3    | Chloroethane                | ND                |                    | 250        | 225     | 90            | 250         | 240      | 96  | 6                 | 62-144/20 |
| 67-66-3    | Chloroform                  | ND                |                    | 250        | 226     | 90            | 250         | 247      | 99  | 9                 | 80-124/15 |
| 110-82-7   | Cyclohexane                 | ND                |                    | 250        | 221     | 88            | 250         | 244      | 98  | 10                | 73-138/18 |
| 124-48-1   | Dibromochloromethane        | ND                |                    | 250        | 191     | 76*           | 250         | 218      | 87  | 13                | 78-122/19 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                |                    | 250        | 146     | 58*           | 250         | 171      | 68  | 16                | 64-123/18 |
| 106-93-4   | 1,2-Dibromoethane           | ND                |                    | 250        | 167     | 67*           | 250         | 194      | 78  | 15*               | 75-120/13 |
| 75-71-8    | Dichlorodifluoromethane     | ND                |                    | 250        | 209     | 84            | 250         | 229      | 92  | 9                 | 42-167/19 |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                |                    | 250        | 179     | 72*           | 250         | 199      | 80* | 11                | 82-124/14 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                |                    | 250        | 182     | 73*           | 250         | 201      | 80* | 10                | 84-125/14 |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                |                    | 250        | 180     | 72*           | 250         | 198      | 79  | 10                | 78-120/15 |
| 75-34-3    | 1,1-Dichloroethane          | 27.7              |                    | 250        | 258     | 92            | 250         | 276      | 99  | 7                 | 81-122/15 |
| 107-06-2   | 1,2-Dichloroethane          | 2.1               | J                  | 250        | 212     | 84            | 250         | 232      | 92  | 9                 | 75-125/14 |
| 75-35-4    | 1,1-Dichloroethylene        | 464               |                    | 250        | 617     | 61*           | 250         | 625      | 64* | 1                 | 78-137/18 |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                |                    | 250        | 219     | 88            | 250         | 237      | 95  | 8                 | 78-120/15 |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                |                    | 250        | 212     | 85            | 250         | 232      | 93  | 9                 | 76-127/17 |
| 78-87-5    | 1,2-Dichloropropane         | ND                |                    | 250        | 202     | 81            | 250         | 225      | 90  | 11                | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                |                    | 250        | 179     | 72*           | 250         | 203      | 81  | 13                | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                |                    | 250        | 163     | 65*           | 250         | 187      | 75* | 14                | 80-120/22 |
| 100-41-4   | Ethylbenzene                | ND                |                    | 250        | 197     | 79*           | 250         | 219      | 88  | 11                | 81-121/14 |
| 76-13-1    | Freon 113                   | ND                |                    | 250        | 215     | 86            | 250         | 242      | 97  | 12                | 72-134/20 |
| 591-78-6   | 2-Hexanone                  | ND                |                    | 1250       | 825     | 66            | 1250        | 974      | 78  | 17                | 61-129/18 |
| 98-82-8    | Isopropylbenzene            | ND                |                    | 250        | 188     | 75*           | 250         | 210      | 84  | 11                | 83-132/15 |
| 79-20-9    | Methyl Acetate              | ND                |                    | 1250       | 958     | 77            | 1250        | 1110     | 89  | 15                | 65-126/18 |
| 74-83-9    | Methyl Bromide              | ND                |                    | 250        | 153     | 61            | 250         | 174      | 70  | 13                | 59-143/19 |
| 74-87-3    | Methyl Chloride             | ND                |                    | 250        | 202     | 81            | 250         | 225      | 90  | 11                | 50-159/19 |
| 108-87-2   | Methylcyclohexane           | ND                |                    | 250        | 238     | 95            | 250         | 265      | 106 | 11                | 76-129/17 |
| 75-09-2    | Methylene Chloride          | ND                |                    | 250        | 241     | 96            | 250         | 265      | 106 | 9                 | 69-135/16 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                |                    | 1250       | 824     | 66            | 1250        | 956      | 76  | 15                | 66-122/16 |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|----------|----|----------|----|-----------|------------|------------------|
| FA81097-9MS  | Y54506.D | 10 | 12/03/20 | LR | n/a       | n/a        | VY2264           |
| FA81097-9MSD | Y54507.D | 10 | 12/03/20 | LR | n/a       | n/a        | VY2264           |
| FA81097-9    | Y54490.D | 5  | 12/03/20 | LR | n/a       | n/a        | VY2264           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-5, FA81103-6, FA81103-7, FA81103-8, FA81103-9

| CAS No.   | Compound                  | FA81097-9<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                | 250                | 178        | 71*     | 250           | 209         | 84       | 16* | 72-117/14         |
| 100-42-5  | Styrene                   | ND                | 250                | 188        | 75*     | 250           | 211         | 84       | 12  | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                | 250                | 165        | 66*     | 250           | 192         | 77       | 15* | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                | 250                | 208        | 83      | 250           | 226         | 90       | 8   | 76-135/16         |
| 108-88-3  | Toluene                   | ND                | 250                | 178        | 71*     | 250           | 196         | 78*      | 10  | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                | 250                | 167        | 67*     | 250           | 191         | 76       | 13  | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | 22.0              | 250                | 253        | 92      | 250           | 273         | 100      | 8   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                | 250                | 181        | 72*     | 250           | 204         | 82       | 12  | 76-119/14         |
| 79-01-6   | Trichloroethylene         | 53.8              | 250                | 289        | 94      | 250           | 303         | 100      | 5   | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | 26.9              | 250                | 285        | 103     | 250           | 311         | 114      | 9   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                | 250                | 217        | 87      | 250           | 236         | 94       | 8   | 69-159/18         |
| 1330-20-7 | Xylene (total)            | ND                | 750                | 560        | 75*     | 750           | 624         | 83       | 11  | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81097-9 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 107% | 106% | 107%      | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 103% | 107%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 91%  | 91%  | 91%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%  | 95%  | 98%       | 83-118% |

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID  | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|----------|-----|----------|----|-----------|------------|------------------|
| FA81103-12MS  | P76378.D | 500 | 12/03/20 | SO | n/a       | n/a        | VP3059           |
| FA81103-12MSD | P76379.D | 500 | 12/03/20 | SO | n/a       | n/a        | VP3059           |
| FA81103-12    | P76371.D | 500 | 12/03/20 | SO | n/a       | n/a        | VP3059           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-12, FA81103-13, FA81103-15, FA81103-16, FA81103-17

| CAS No.    | Compound                    | FA81103-12<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|------------|-----------------------------|--------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|-----------|
| 67-64-1    | Acetone                     | ND                 |            | 62500      | 65900   | 105           | 62500       | 68400    | 109 | 4                 | 50-147/21 |
| 71-43-2    | Benzene                     | ND                 |            | 12500      | 13200   | 106           | 12500       | 12100    | 97  | 9                 | 81-122/14 |
| 75-27-4    | Bromodichloromethane        | ND                 |            | 12500      | 14300   | 114           | 12500       | 13100    | 105 | 9                 | 79-123/19 |
| 75-25-2    | Bromoform                   | ND                 |            | 12500      | 13000   | 104           | 12500       | 12600    | 101 | 3                 | 66-123/21 |
| 78-93-3    | 2-Butanone (MEK)            | ND                 |            | 62500      | 64100   | 103           | 62500       | 68000    | 109 | 6                 | 56-143/18 |
| 75-15-0    | Carbon Disulfide            | ND                 |            | 12500      | 13600   | 109           | 12500       | 12000    | 96  | 13                | 66-148/23 |
| 56-23-5    | Carbon Tetrachloride        | ND                 |            | 12500      | 14300   | 114           | 12500       | 13300    | 106 | 7                 | 76-136/23 |
| 108-90-7   | Chlorobenzene               | ND                 |            | 12500      | 12800   | 102           | 12500       | 11800    | 94  | 8                 | 82-124/14 |
| 75-00-3    | Chloroethane                | ND                 |            | 12500      | 13300   | 106           | 12500       | 12900    | 103 | 3                 | 62-144/20 |
| 67-66-3    | Chloroform                  | ND                 |            | 12500      | 13600   | 109           | 12500       | 12500    | 100 | 8                 | 80-124/15 |
| 110-82-7   | Cyclohexane                 | ND                 |            | 12500      | 14100   | 113           | 12500       | 12800    | 102 | 10                | 73-138/18 |
| 124-48-1   | Dibromochloromethane        | ND                 |            | 12500      | 13300   | 106           | 12500       | 12200    | 98  | 9                 | 78-122/19 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                 |            | 12500      | 11500   | 92            | 12500       | 12200    | 98  | 6                 | 64-123/18 |
| 106-93-4   | 1,2-Dibromoethane           | ND                 |            | 12500      | 12400   | 99            | 12500       | 11800    | 94  | 5                 | 75-120/13 |
| 75-71-8    | Dichlorodifluoromethane     | ND                 |            | 12500      | 13700   | 110           | 12500       | 12200    | 98  | 12                | 42-167/19 |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                 |            | 12500      | 12500   | 100           | 12500       | 11400    | 91  | 9                 | 82-124/14 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                 |            | 12500      | 13400   | 107           | 12500       | 12100    | 97  | 10                | 84-125/14 |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                 |            | 12500      | 12300   | 98            | 12500       | 11200    | 90  | 9                 | 78-120/15 |
| 75-34-3    | 1,1-Dichloroethane          | ND                 |            | 12500      | 14300   | 114           | 12500       | 13000    | 104 | 10                | 81-122/15 |
| 107-06-2   | 1,2-Dichloroethane          | ND                 |            | 12500      | 13000   | 104           | 12500       | 12100    | 97  | 7                 | 75-125/14 |
| 75-35-4    | 1,1-Dichloroethylene        | ND                 |            | 12500      | 14400   | 115           | 12500       | 13200    | 106 | 9                 | 78-137/18 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 25800              |            | 12500      | 42900   | 137* a        | 12500       | 39600    | 110 | 8                 | 78-120/15 |
| 156-60-5   | trans-1,2-Dichloroethylene  | 151                | J          | 12500      | 14000   | 111           | 12500       | 12300    | 97  | 13                | 76-127/17 |
| 78-87-5    | 1,2-Dichloropropane         | ND                 |            | 12500      | 13400   | 107           | 12500       | 12200    | 98  | 9                 | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                 |            | 12500      | 12000   | 96            | 12500       | 11200    | 90  | 7                 | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                 |            | 12500      | 12600   | 101           | 12500       | 11800    | 94  | 7                 | 80-120/22 |
| 100-41-4   | Ethylbenzene                | ND                 |            | 12500      | 13100   | 105           | 12500       | 11900    | 95  | 10                | 81-121/14 |
| 76-13-1    | Freon 113                   | ND                 |            | 12500      | 12200   | 98            | 12500       | 11100    | 89  | 9                 | 72-134/20 |
| 591-78-6   | 2-Hexanone                  | ND                 |            | 62500      | 64800   | 104           | 62500       | 67700    | 108 | 4                 | 61-129/18 |
| 98-82-8    | Isopropylbenzene            | ND                 |            | 12500      | 12900   | 103           | 12500       | 11800    | 94  | 9                 | 83-132/15 |
| 79-20-9    | Methyl Acetate              | ND                 |            | 62500      | 66800   | 107           | 62500       | 70300    | 112 | 5                 | 65-126/18 |
| 74-83-9    | Methyl Bromide              | ND                 |            | 12500      | 12600   | 101           | 12500       | 12400    | 99  | 2                 | 59-143/19 |
| 74-87-3    | Methyl Chloride             | ND                 |            | 12500      | 13600   | 109           | 12500       | 12400    | 99  | 9                 | 50-159/19 |
| 108-87-2   | Methylcyclohexane           | ND                 |            | 12500      | 15400   | 123           | 12500       | 14000    | 112 | 10                | 76-129/17 |
| 75-09-2    | Methylene Chloride          | ND                 |            | 12500      | 12500   | 100           | 12500       | 11500    | 92  | 8                 | 69-135/16 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                 |            | 62500      | 65200   | 104           | 62500       | 67100    | 107 | 3                 | 66-122/16 |

\* = Outside of Control Limits.

5.3.2  
5



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID  | DF  | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|----------|-----|----------|----|-----------|------------|------------------|
| FA81103-12MS  | P76378.D | 500 | 12/03/20 | SO | n/a       | n/a        | VP3059           |
| FA81103-12MSD | P76379.D | 500 | 12/03/20 | SO | n/a       | n/a        | VP3059           |
| FA81103-12    | P76371.D | 500 | 12/03/20 | SO | n/a       | n/a        | VP3059           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-12, FA81103-13, FA81103-15, FA81103-16, FA81103-17

| CAS No.   | Compound                  | FA81103-12 Spike |        | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|---------------------------|------------------|--------|---------|------|------------|----------|-------|-----|----------------|
|           |                           | ug/l             | Q ug/l |         |      |            |          |       |     |                |
| 1634-04-4 | Methyl Tert Butyl Ether   | ND               | 12500  | 13000   | 104  | 12500      | 12500    | 100   | 4   | 72-117/14      |
| 100-42-5  | Styrene                   | ND               | 12500  | 12800   | 102  | 12500      | 11500    | 92    | 11  | 78-119/23      |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND               | 12500  | 12500   | 100  | 12500      | 12100    | 97    | 3   | 72-120/14      |
| 127-18-4  | Tetrachloroethylene       | ND               | 12500  | 14500   | 116  | 12500      | 13200    | 106   | 9   | 76-135/16      |
| 108-88-3  | Toluene                   | ND               | 12500  | 12700   | 102  | 12500      | 11600    | 93    | 9   | 80-120/14      |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND               | 12500  | 12100   | 97   | 12500      | 11600    | 93    | 4   | 73-129/20      |
| 71-55-6   | 1,1,1-Trichloroethane     | ND               | 12500  | 14200   | 114  | 12500      | 12700    | 102   | 11  | 75-130/16      |
| 79-00-5   | 1,1,2-Trichloroethane     | ND               | 12500  | 13000   | 104  | 12500      | 12300    | 98    | 6   | 76-119/14      |
| 79-01-6   | Trichloroethylene         | ND               | 12500  | 13300   | 106  | 12500      | 12500    | 100   | 6   | 81-126/15      |
| 75-69-4   | Trichlorofluoromethane    | ND               | 12500  | 14200   | 114  | 12500      | 13000    | 104   | 9   | 71-156/21      |
| 75-01-4   | Vinyl Chloride            | 2710             | 12500  | 16800   | 113  | 12500      | 14700    | 96    | 13  | 69-159/18      |
| 1330-20-7 | Xylene (total)            | ND               | 37500  | 39900   | 106  | 37500      | 36100    | 96    | 10  | 80-126/15      |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81103-12 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101% | 100% | 101%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 102% | 103%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 100% | 100% | 103%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 99%  | 99%  | 100%       | 83-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID  | DF   | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|----------|------|----------|----|-----------|------------|------------------|
| FA81103-17MS  | P76408.D | 5000 | 12/04/20 | SO | n/a       | n/a        | VP3061           |
| FA81103-17MSD | P76409.D | 5000 | 12/04/20 | SO | n/a       | n/a        | VP3061           |
| FA81103-17    | P76398.D | 5000 | 12/04/20 | SO | n/a       | n/a        | VP3061           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-11, FA81103-14, FA81103-15, FA81103-16, FA81103-17

| CAS No.    | Compound                    | FA81103-17<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |           |
|------------|-----------------------------|--------------------|------------|------------|---------|---------------|-------------|----------|-----|-------------------|-----------|
| 67-64-1    | Acetone                     | ND                 |            | 625000     | 674000  | 108           | 625000      | 601000   | 96  | 11                | 50-147/21 |
| 71-43-2    | Benzene                     | ND                 |            | 125000     | 141000  | 113           | 125000      | 127000   | 102 | 10                | 81-122/14 |
| 75-27-4    | Bromodichloromethane        | ND                 |            | 125000     | 151000  | 121           | 125000      | 138000   | 110 | 9                 | 79-123/19 |
| 75-25-2    | Bromoform                   | ND                 |            | 125000     | 142000  | 114           | 125000      | 124000   | 99  | 14                | 66-123/21 |
| 78-93-3    | 2-Butanone (MEK)            | ND                 |            | 625000     | 664000  | 106           | 625000      | 596000   | 95  | 11                | 56-143/18 |
| 75-15-0    | Carbon Disulfide            | ND                 |            | 125000     | 151000  | 121           | 125000      | 132000   | 106 | 13                | 66-148/23 |
| 56-23-5    | Carbon Tetrachloride        | ND                 |            | 125000     | 158000  | 126           | 125000      | 140000   | 112 | 12                | 76-136/23 |
| 108-90-7   | Chlorobenzene               | ND                 |            | 125000     | 140000  | 112           | 125000      | 127000   | 102 | 10                | 82-124/14 |
| 75-00-3    | Chloroethane                | ND                 |            | 125000     | 143000  | 114           | 125000      | 129000   | 103 | 10                | 62-144/20 |
| 67-66-3    | Chloroform                  | ND                 |            | 125000     | 147000  | 118           | 125000      | 132000   | 106 | 11                | 80-124/15 |
| 110-82-7   | Cyclohexane                 | ND                 |            | 125000     | 150000  | 120           | 125000      | 135000   | 108 | 11                | 73-138/18 |
| 124-48-1   | Dibromochloromethane        | ND                 |            | 125000     | 147000  | 118           | 125000      | 133000   | 106 | 10                | 78-122/19 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                 |            | 125000     | 124000  | 99            | 125000      | 113000   | 90  | 9                 | 64-123/18 |
| 106-93-4   | 1,2-Dibromoethane           | ND                 |            | 125000     | 136000  | 109           | 125000      | 123000   | 98  | 10                | 75-120/13 |
| 75-71-8    | Dichlorodifluoromethane     | ND                 |            | 125000     | 141000  | 113           | 125000      | 126000   | 101 | 11                | 42-167/19 |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                 |            | 125000     | 137000  | 110           | 125000      | 126000   | 101 | 8                 | 82-124/14 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                 |            | 125000     | 144000  | 115           | 125000      | 133000   | 106 | 8                 | 84-125/14 |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                 |            | 125000     | 135000  | 108           | 125000      | 122000   | 98  | 10                | 78-120/15 |
| 75-34-3    | 1,1-Dichloroethane          | ND                 |            | 125000     | 151000  | 121           | 125000      | 138000   | 110 | 9                 | 81-122/15 |
| 107-06-2   | 1,2-Dichloroethane          | ND                 |            | 125000     | 130000  | 104           | 125000      | 121000   | 97  | 7                 | 75-125/14 |
| 75-35-4    | 1,1-Dichloroethylene        | ND                 |            | 125000     | 157000  | 126           | 125000      | 141000   | 113 | 11                | 78-137/18 |
| 156-59-2   | cis-1,2-Dichloroethylene    | 16700              |            | 125000     | 173000  | 125*          | 125000      | 154000   | 110 | 12                | 78-120/15 |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                 |            | 125000     | 150000  | 120           | 125000      | 135000   | 108 | 11                | 76-127/17 |
| 78-87-5    | 1,2-Dichloropropane         | ND                 |            | 125000     | 144000  | 115           | 125000      | 129000   | 103 | 11                | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                 |            | 125000     | 132000  | 106           | 125000      | 120000   | 96  | 10                | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                 |            | 125000     | 139000  | 111           | 125000      | 127000   | 102 | 9                 | 80-120/22 |
| 100-41-4   | Ethylbenzene                | ND                 |            | 125000     | 141000  | 113           | 125000      | 127000   | 102 | 10                | 81-121/14 |
| 76-13-1    | Freon 113                   | ND                 |            | 125000     | 134000  | 107           | 125000      | 121000   | 97  | 10                | 72-134/20 |
| 591-78-6   | 2-Hexanone                  | ND                 |            | 625000     | 663000  | 106           | 625000      | 607000   | 97  | 9                 | 61-129/18 |
| 98-82-8    | Isopropylbenzene            | ND                 |            | 125000     | 140000  | 112           | 125000      | 126000   | 101 | 11                | 83-132/15 |
| 79-20-9    | Methyl Acetate              | ND                 |            | 625000     | 685000  | 110           | 625000      | 631000   | 101 | 8                 | 65-126/18 |
| 74-83-9    | Methyl Bromide              | ND                 |            | 125000     | 144000  | 115           | 125000      | 134000   | 107 | 7                 | 59-143/19 |
| 74-87-3    | Methyl Chloride             | ND                 |            | 125000     | 137000  | 110           | 125000      | 120000   | 96  | 13                | 50-159/19 |
| 108-87-2   | Methylcyclohexane           | ND                 |            | 125000     | 168000  | 134*          | 125000      | 154000   | 123 | 9                 | 76-129/17 |
| 75-09-2    | Methylene Chloride          | ND                 |            | 125000     | 127000  | 102           | 125000      | 118000   | 94  | 7                 | 69-135/16 |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                 |            | 625000     | 685000  | 110           | 625000      | 620000   | 99  | 10                | 66-122/16 |

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample        | File ID  | DF   | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---------------|----------|------|----------|----|-----------|------------|------------------|
| FA81103-17MS  | P76408.D | 5000 | 12/04/20 | SO | n/a       | n/a        | VP3061           |
| FA81103-17MSD | P76409.D | 5000 | 12/04/20 | SO | n/a       | n/a        | VP3061           |
| FA81103-17    | P76398.D | 5000 | 12/04/20 | SO | n/a       | n/a        | VP3061           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-11, FA81103-14, FA81103-15, FA81103-16, FA81103-17

| CAS No.   | Compound                  | FA81103-17 Spike |        | MS ug/l | MS %   | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|---------------------------|------------------|--------|---------|--------|------------|----------|-------|-----|----------------|
|           |                           | ug/l             | Q      |         |        |            |          |       |     |                |
| 1634-04-4 | Methyl Tert Butyl Ether   | ND               | 125000 | 146000  | 117    | 125000     | 135000   | 108   | 8   | 72-117/14      |
| 100-42-5  | Styrene                   | ND               | 125000 | 137000  | 110    | 125000     | 126000   | 101   | 8   | 78-119/23      |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND               | 125000 | 131000  | 105    | 125000     | 123000   | 98    | 6   | 72-120/14      |
| 127-18-4  | Tetrachloroethylene       | ND               | 125000 | 154000  | 123    | 125000     | 140000   | 112   | 10  | 76-135/16      |
| 108-88-3  | Toluene                   | ND               | 125000 | 139000  | 111    | 125000     | 125000   | 100   | 11  | 80-120/14      |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND               | 125000 | 135000  | 108    | 125000     | 122000   | 98    | 10  | 73-129/20      |
| 71-55-6   | 1,1,1-Trichloroethane     | ND               | 125000 | 152000  | 122    | 125000     | 136000   | 109   | 11  | 75-130/16      |
| 79-00-5   | 1,1,2-Trichloroethane     | ND               | 125000 | 140000  | 112    | 125000     | 127000   | 102   | 10  | 76-119/14      |
| 79-01-6   | Trichloroethylene         | 313000           | 125000 | 478000  | 132* a | 125000     | 432000   | 95    | 10  | 81-126/15      |
| 75-69-4   | Trichlorofluoromethane    | ND               | 125000 | 156000  | 125    | 125000     | 138000   | 110   | 12  | 71-156/21      |
| 75-01-4   | Vinyl Chloride            | ND               | 125000 | 149000  | 119    | 125000     | 132000   | 106   | 12  | 69-159/18      |
| 1330-20-7 | Xylene (total)            | ND               | 375000 | 431000  | 115    | 375000     | 389000   | 104   | 10  | 80-126/15      |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81103-17 | Limits  |
|------------|-----------------------|------|------|------------|---------|
| 1868-53-7  | Dibromofluoromethane  | 100% | 100% | 102%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%  | 96%  | 101%       | 79-125% |
| 2037-26-5  | Toluene-D8            | 101% | 100% | 102%       | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 101% | 103% | 102%       | 83-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|------------|----|----------|----|-----------|------------|------------------|
| FA81302-2MS  | C0145533.D | 50 | 12/07/20 | SO | n/a       | n/a        | VC5844           |
| FA81302-2MSD | C0145534.D | 50 | 12/07/20 | SO | n/a       | n/a        | VC5844           |
| FA81302-2    | C0145514.D | 50 | 12/07/20 | SO | n/a       | n/a        | VC5844           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-4, FA81103-9, FA81103-10

| CAS No.    | Compound                    | FA81302-2<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                | 6250               | 6220       | 100     | 6250          | 5860        | 94       | 6   | 50-147/21         |
| 71-43-2    | Benzene                     | 452               | 1250               | 1930       | 118     | 1250          | 1820        | 109      | 6   | 81-122/14         |
| 75-27-4    | Bromodichloromethane        | ND                | 1250               | 1390       | 111     | 1250          | 1340        | 107      | 4   | 79-123/19         |
| 75-25-2    | Bromoform                   | ND                | 1250               | 1430       | 114     | 1250          | 1330        | 106      | 7   | 66-123/21         |
| 78-93-3    | 2-Butanone (MEK)            | ND                | 6250               | 6910       | 111     | 6250          | 6260        | 100      | 10  | 56-143/18         |
| 75-15-0    | Carbon Disulfide            | ND                | 1250               | 1320       | 106     | 1250          | 1220        | 98       | 8   | 66-148/23         |
| 56-23-5    | Carbon Tetrachloride        | ND                | 1250               | 1530       | 122     | 1250          | 1380        | 110      | 10  | 76-136/23         |
| 108-90-7   | Chlorobenzene               | ND                | 1250               | 1490       | 119     | 1250          | 1400        | 112      | 6   | 82-124/14         |
| 75-00-3    | Chloroethane                | ND                | 1250               | 1260       | 101     | 1250          | 1130        | 90       | 11  | 62-144/20         |
| 67-66-3    | Chloroform                  | ND                | 1250               | 1370       | 110     | 1250          | 1290        | 103      | 6   | 80-124/15         |
| 110-82-7   | Cyclohexane                 | 215               | 1250               | 1670       | 116     | 1250          | 1560        | 108      | 7   | 73-138/18         |
| 124-48-1   | Dibromochloromethane        | ND                | 1250               | 1530       | 122     | 1250          | 1450        | 116      | 5   | 78-122/19         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                | 1250               | 1530       | 122     | 1250          | 1370        | 110      | 11  | 64-123/18         |
| 106-93-4   | 1,2-Dibromoethane           | ND                | 1250               | 1400       | 112     | 1250          | 1340        | 107      | 4   | 75-120/13         |
| 75-71-8    | Dichlorodifluoromethane     | ND                | 1250               | 1120       | 90      | 1250          | 1020        | 82       | 9   | 42-167/19         |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                | 1250               | 1540       | 123     | 1250          | 1420        | 114      | 8   | 82-124/14         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                | 1250               | 1570       | 126*    | 1250          | 1440        | 115      | 9   | 84-125/14         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                | 1250               | 1510       | 121*    | 1250          | 1380        | 110      | 9   | 78-120/15         |
| 75-34-3    | 1,1-Dichloroethane          | ND                | 1250               | 1450       | 116     | 1250          | 1360        | 109      | 6   | 81-122/15         |
| 107-06-2   | 1,2-Dichloroethane          | ND                | 1250               | 1310       | 105     | 1250          | 1250        | 100      | 5   | 75-125/14         |
| 75-35-4    | 1,1-Dichloroethylene        | ND                | 1250               | 1530       | 122     | 1250          | 1400        | 112      | 9   | 78-137/18         |
| 156-59-2   | cis-1,2-Dichloroethylene    | ND                | 1250               | 1370       | 110     | 1250          | 1280        | 102      | 7   | 78-120/15         |
| 156-60-5   | trans-1,2-Dichloroethylene  | ND                | 1250               | 1450       | 116     | 1250          | 1350        | 108      | 7   | 76-127/17         |
| 78-87-5    | 1,2-Dichloropropane         | ND                | 1250               | 1390       | 111     | 1250          | 1310        | 105      | 6   | 76-124/14         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                | 1250               | 1280       | 102     | 1250          | 1220        | 98       | 5   | 75-118/23         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                | 1250               | 1530       | 122*    | 1250          | 1430        | 114      | 7   | 80-120/22         |
| 100-41-4   | Ethylbenzene                | 3020              | 1250               | 4880       | 149* a  | 1250          | 4540        | 122* a   | 7   | 81-121/14         |
| 76-13-1    | Freon 113                   | ND                | 1250               | 1250       | 100     | 1250          | 1120        | 90       | 11  | 72-134/20         |
| 591-78-6   | 2-Hexanone                  | ND                | 6250               | 7310       | 117     | 6250          | 6700        | 107      | 9   | 61-129/18         |
| 98-82-8    | Isopropylbenzene            | 181               | 1250               | 1790       | 129     | 1250          | 1650        | 118      | 8   | 83-132/15         |
| 79-20-9    | Methyl Acetate              | ND                | 6250               | 6400       | 102     | 6250          | 5930        | 95       | 8   | 65-126/18         |
| 74-83-9    | Methyl Bromide              | ND                | 1250               | 811        | 65      | 1250          | 829         | 66       | 2   | 59-143/19         |
| 74-87-3    | Methyl Chloride             | ND                | 1250               | 1180       | 94      | 1250          | 1080        | 86       | 9   | 50-159/19         |
| 108-87-2   | Methylcyclohexane           | 199               | 1250               | 1750       | 124     | 1250          | 1660        | 117      | 5   | 76-129/17         |
| 75-09-2    | Methylene Chloride          | ND                | 1250               | 1250       | 100     | 1250          | 1170        | 94       | 7   | 69-135/16         |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | ND                | 6250               | 7720       | 124*    | 6250          | 7100        | 114      | 8   | 66-122/16         |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA81103  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

| Sample       | File ID    | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|------------|----|----------|----|-----------|------------|------------------|
| FA81302-2MS  | C0145533.D | 50 | 12/07/20 | SO | n/a       | n/a        | VC5844           |
| FA81302-2MSD | C0145534.D | 50 | 12/07/20 | SO | n/a       | n/a        | VC5844           |
| FA81302-2    | C0145514.D | 50 | 12/07/20 | SO | n/a       | n/a        | VC5844           |

The QC reported here applies to the following samples:

Method: SW846 8260D

FA81103-1, FA81103-2, FA81103-3, FA81103-4, FA81103-9, FA81103-10

| CAS No.   | Compound                  | FA81302-2<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|---------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether   | ND                | 1250               | 1280       | 102     | 1250          | 1210        | 97       | 6   | 72-117/14         |
| 100-42-5  | Styrene                   | ND                | 1250               | 1500       | 120*    | 1250          | 1440        | 115      | 4   | 78-119/23         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane | ND                | 1250               | 1480       | 118     | 1250          | 1370        | 110      | 8   | 72-120/14         |
| 127-18-4  | Tetrachloroethylene       | ND                | 1250               | 1650       | 132     | 1250          | 1500        | 120      | 10  | 76-135/16         |
| 108-88-3  | Toluene                   | 148               | 1250               | 1690       | 123*    | 1250          | 1560        | 113      | 8   | 80-120/14         |
| 120-82-1  | 1,2,4-Trichlorobenzene    | ND                | 1250               | 1470       | 118     | 1250          | 1350        | 108      | 9   | 73-129/20         |
| 71-55-6   | 1,1,1-Trichloroethane     | ND                | 1250               | 1460       | 117     | 1250          | 1360        | 109      | 7   | 75-130/16         |
| 79-00-5   | 1,1,2-Trichloroethane     | ND                | 1250               | 1580       | 126*    | 1250          | 1490        | 119      | 6   | 76-119/14         |
| 79-01-6   | Trichloroethylene         | ND                | 1250               | 1360       | 109     | 1250          | 1230        | 98       | 10  | 81-126/15         |
| 75-69-4   | Trichlorofluoromethane    | ND                | 1250               | 1320       | 106     | 1250          | 1230        | 98       | 7   | 71-156/21         |
| 75-01-4   | Vinyl Chloride            | ND                | 1250               | 1280       | 102     | 1250          | 1150        | 92       | 11  | 69-159/18         |
| 1330-20-7 | Xylene (total)            | 3370              | 3750               | 8210       | 129*    | 3750          | 7640        | 114      | 7   | 80-126/15         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | FA81302-2 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 95%  | 97%  | 95%       | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%  | 102% | 100%      | 79-125% |
| 2037-26-5  | Toluene-D8            | 109% | 109% | 108%      | 85-112% |
| 460-00-4   | 4-Bromofluorobenzene  | 100% | 101% | 103%      | 83-118% |

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

5.3.4  
5

# APPENDIX H

Lithologic Logs for Borings at Area #2









































## SOIL CORE / SAMPLING LOG

Boring/Well A#2-17 Project/No. 30062543 Page 1 of 1

Site Location Brenntag Charleston, SC Drilling Started 11/18/2020 Drilling Completed 11/18/2020

Drilling Contractor ARM Driller David Felder Helper \_\_\_\_\_

Drilling Fluid Used None Drilling Method Geoprobe

Length and Diameter of Coring Device 5' x 3" Sampling Interval 20 feet

Land-Surface Elev. \_\_\_\_\_ feet  Surveyed  Estimated Datum \_\_\_\_\_

Total Depth Drilled 20 Feet Hole Diameter 3" Coring Device Soil Line

Prepared By C. Lawson Hammer Weight \_\_\_\_\_ Hammer Drop \_\_\_\_\_ ins.

**Sampling Data:**

| Depth | Grab/Composite | Time | Laboratory Analysis |
|-------|----------------|------|---------------------|
| 3'    | Grab           |      | VOC                 |
| 5'    | Grab           |      | VOC                 |
|       |                |      |                     |

**Soil Characterization:**

| Sample/Core Depth (Feet bls) |     | Core Recovery (Feet) | OVM Reading (ppm) | Blow Counts per 6 Inches | Sample/Core Description<br><small>Soil type, %, Grain Size, Angularity, Grading, Consistency, Plasticity, Color, etc.</small> |
|------------------------------|-----|----------------------|-------------------|--------------------------|---|
| From                         | To  |                      |                   |                          |   |
| 0.0                          | 1"  |                      |                   |                          | Ashpalt   |
| 1"                           | 10" |                      | 3'=0.5            |                          | white gravel with shell fragments   |
| 10"                          | 6'  |                      | 6'=0.0            |                          | Silty sands 75%, density is firm, tan to brown, no odors no staining  |
| 6'                           | 10' |                      | 9'=1.6            |                          | Same as above but more sands, alternating colors, orange, gray, to brown  |
| 10'                          | 15' |                      |                   |                          | Lost core sloppy soils  |
| 15'                          | 18' |                      | 16'=8.4           |                          | SC Silty clayey unit clays (30%), greenish to gray, moist, no odors no staining   |
| 18'                          | 20' |                      | 19'=0.2           |                          | Stiffer clays, green, no shell fragments, platty texture  |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |
|                              |     |                      |                   |                          |   |

Note: from 15 to 20 ft bls a tight unit, not saturated, very little moisture.























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