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Mr. Tim Hornosky  
State Remediation Section  
SC Department of Health & Environmental Control  
2600 Bull Street  
Columbia, SC 29201-1708

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Subject:  
Additional Geoprobe Investigation at the Former Unloading/Loading Area Near  
the Railroad Tracks  
Brenntag Southeast, Charleston, South Carolina

ENVIRONMENT

Date:  
16 September 2021

Dear Tim Hornosky:

Contact:  
Edward Hirshenson

Brenntag Southeast, Inc. has authorized ARCADIS U.S., Inc. to forward the  
enclosed two copies of the Additional Geoprobe Investigation at the Former  
Unloading/Loading Area near the Railroad Tracks, 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  
30088889

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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Subject:  
Additional Geoprobe Investigation at the Former Unloading/Loading Railroad  
Tracks  
Brenntag Southeast, Charleston, South Carolina

ENVIRONMENT

Date:  
16 September 2021

Dear Tim Hornosky:

Contact:  
Edward Hirshenson

Brenntag Southeast, Inc. has authorized ARCADIS U.S., Inc. to submit the results of additional investigation at the former unloading/loading railroad tracks for the Brenntag Southeast facility located in Charleston, South Carolina. The South Carolina Department of Health and Environmental Control (SCDHEC) approved a Work Plan for Area #2-Rev.1 (dated September 25, 2020) in a correspondence letter from Hornosky to Wiram on September 29, 2020. A comprehensive soil/groundwater investigation was conducted in the vicinity of monitor well MW-14 if free-phase hydrocarbon were present in soils. The investigation was extended to the south and east of monitor well MW-14 to determine the lateral extent. The field activities were conducted from November 16 thru November 20, 2020. The results of the investigation were included in the Second Semi-Annual 2020 Groundwater Monitoring Report (March 2021) and Brenntag recommended to conduct additional borings in the vicinity of the former unloading/loading railroad track area. The SCDHEC approved the additional borings in a letter (Hornosky to Wiram) on May 14, 2021. Ten borings were conducted from July 28 thru 30, 2021 at the former unloading/loading area.

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### Work Performed

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. Aliquot 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. Lithologic logs for all borings are included in Appendix A and DHEC forms 1903 are also included in the same appendix.

Ten borings (B-27 thru B-36) were completed in the vicinity of the former unloading/loading tracks of the Brenntag facility (Figure 1). After completion, all boreholes were filled with neat cement grout to land surface.

## Results

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. The highest PID reading was recorded at location A2-28 (4') with a reading of 304 ppm. All other readings were below 30 ppm.

### Chlorinated Solvents in Soils

Chlorinated solvents were detected in all borings in the vicinity of the former unloading/loading tracks upgradient of the Brenntag office as depicted on Figure 2. Chlorinated solvent concentration ranged from 0 ug/kg to 194,649 ug/kg at boring A2-28 at a depth of 5 ft bls. Highest chlorinated solvent concentrations for soils are located at A2-28 next to railroad tracks. Concentrations decreased north, south, and east as indicated at borings A2-32 (0 ug/kg at 5 ft bls), A2-35 (0 ug/kg at 5 ft bls), and A2-36 (87 ug/kg at 5 ft bls). It should be noted that methylene chloride was detected in numerous borings but should be considered a suspected laboratory contaminant. Summary of chlorinated solvents in soils are included in Table 1. Laboratory analytical reports of all soils collected is included in Appendix B.

### Chlorinated Solvents in Groundwater

Chlorinated solvents were detected in borings in the vicinity of the former unloading/loading tracks as depicted on Figure 3. Chlorinated solvent concentrations ranged from below detection limits (A2-27, A2-33, A2-34 at depths of 7-10 ft bls and 17-20 ft bls) to 63,740 ug/L (A2-28 at a depth of 17-20 ft bls). Concentrations of chlorinated solvents are concentrated at former borings A2-22, A2-24, and A2-25. Laboratory analytical data from additional borings at the former tracks, indicated that high concentrations of chlorinated solvents are in the vicinity of A2-28. Chlorinated solvent in the vicinity of the Brenntag office are originating from the former railroad loading/unloading as indicated by the analytical laboratory data (borings A2-24, A2-25, and A2-28). This area will be called Area #3. Figure 4 illustrates a cross-section from Bird monitor well MW-17 to borings A2-28 and A2-35. Summary of chlorinated solvents in groundwater are included in Table 1. Laboratory analytical reports for chlorinated solvents in groundwater are included in Appendix B.

## Summary and Recommendations

The additional geoprobe investigation has revealed a third source area located at the railroad loading/unloading area which will be called Area #3. Results of the investigation indicated Area #3 has

Mr. Hornosky  
9/16/2021

high concentrations of chlorinated solvents in the vicinity of the railroad tracks due to unloading and loading activities from the previous owner. Arcadis recommends generating a Remedial Work Plan for Area #3.

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

Sincerely,

Arcadis U.S., Inc.



Edward Hirshenson  
Senior Scientist



Copies:

Mr. Bill Krecker/SCDHEC Water Pollution Enforcement (without report)

Mr. Shawn Wiram/North America/Brenntag (with report)

# Tables

**Table 1. Summary of Soil and Groudwater Analyses from Area #2 and #3 Brenntag Southeast, Charleston, South Carolina (revised 08/21/2021)**

Sample ID	Depth (ft bls)	AC	Ben	CB	CH	C <sub>2</sub> Dis	Cyhex	1,1-DCA	1,1-DCE	Cis-1,2-DCE	trans-1,2-DCE	m-DCB	o-DCB	p-DCB	EB	IPB	MCH	MEK	1,1,1-TCA	1,2,4-TB	Toluene	PCE	TCE	VC	Xylene	Total
A#2-1	Soils (ug/kg)																									
	3	312	40.5	116	<1.6	2.3	12.8	1.8 J	<0.80	3.5 J	<0.80	4.7	24.8	57.5	1490	17.1	<1.6	<5.8	<0.80	<0.80	90.8	<1.0	<0.80	2.5 J	4580	6,789
	5	71.7 J	15.7	33.6	<1.4	<0.71	4.6	<1.3	<0.71	3.8	<0.71	2.3 J	19.1	13.8	1050	5.1	<1.4	7.4 J	<0.71	<0.71	123	<0.91	<0.71	0.79 J	4160	5,513
A#2-1	Groundwater (ug/L)																									
	7-9	<50	14.9	45.2	<3.3	<2.7	<2	<1.7	<1.6	20.1	<1.1	<1.1	3.6 J	4.4 J	230	8	<2.5	<10	<1.2	<2.5	25.7	<1.1	<1.7	2.7 J	827	1181.6
	17-20	<10	26.8	6.3	<0.67	<0.53	1.1	<0.34	<0.32	0.67 J	0.39 J	<0.22	0.74 J	<0.26	0.89 J	1.5	<0.50	<2.0	<0.25	<0.50	0.45 J	<0.22	<0.35	0.59 J	2.7 J	41.2
A#2-2	Soils (ug/kg)																									
	3	231	87.7	<0.66	<1.3	2.5 J	16.3	1.8 J	<0.66	4.9	<0.66	12.4	333	38.1	3450	55.1	<1.3	31.4	<0.66	<0.66	2080	<0.85	<0.66	1.9 J	11300	17,655
	5	<4700	344	<47	<94	<47	302	<83	<47	<65	<47	924	11300	2570	78700	3170	<94	<340	<47	215 J	25900	<60	<47	<47	483000	606,727
A#2-2	Groundwater (ug/L)																									
	7-9	<2000	96.2 J	<40	<130	<110	<78	<68	<64	<55	<44	<43	615	139 J	9960	198 J	<100	<400	<50	<100	4830	<43	<69	<82	52800	68,638.20
	17-19	<25	16.7	<0.50	<1.7	<1.3	<0.98	<0.85	<0.81	1.8 J	<0.55	<0.54	5.3	<0.64	115	1.3 J	<1.3	<5.0	<0.62	<1.3	76.6	<0.54	<0.86	<1.0	581	797.7
A#2-3	Soil (ug/kg)																									
	3	<4600	259	71.2 J	<92	<46	<58	<82	<46	817	<46	<46	493	119 J	2920	68.9 J	<78	2670	<46	<46	17800	<59	<46	<46	21600	46,818
	5	<97000	27400	<970	<1900	<970	20800	<1700	<970	46700	<970	11600	146000	30900	2270000	90600	17900	10800	3010 J	<970	6270000	<1200	31300	<970	20700000	29,734,910
A#2-3	Groundwater (ug/L)																									
	7-10	<5000	260 J	1000	<330	<270	<200	<170	<160	398 J	<110	<110	<160	<130	4940	137 J	<220	<1000	<120	<250	25300	<110	269 J	<200	39200	71,504
	17-20	<100	18.5	9.3 J	<6.7	<5.3	<3.9	<3.4	<3.2	50.2	<2.2	<2.2	5.6 J	<2.6	91.6	<2.2	<4.4	<20	<2.5	<5.0	479	<2.2	7.2 J	10.4	916	1,588
A#2-4	Soil (ug/kg)																									
	3	<5100	321	<51	<100	<51	166	<90	<51	624	<51	1550	19700	4060	42700	1080	<100	7040	<51	346	71000	<65	<51	<51	242000	390,798
	5	<5500	74.9	643	<110	<55	<69	<98	<55	<76	<55	<55	82.1 J	<64	1670	146 J	<610	<400	<55	<55	704	<71	<55	<55	11500	14,820
A#2-4	Groundwater (ug/L)																									
	7-10	<5000	558	<100	<330	<270	<200	<170	<160	2140	<110	<110	765	<130	11200	<110	<1000	<110	<120	<250	84800	<110	190 J	<200	117000	216,653
	17-20	<500	20.6 J	<10	<33	<27	<20	<17	<16	80.2	<11	<11	48 J	<13	679	<11	<100	<11	<12	<25	3540	<11	17.2 J	<20	6800	11,185
A#2-5	Soil (ug/kg)																									
	3	<81000	<980	<810	<1600	<810	<1000	<1400	<810	<1100	<810	3150 J	38800	8490	95800	2740 J	<1400	<5900	<810	<810	151000	<1000	<810	<810	962000	1,261,980
	5	<230000	8510 J	<2300	<4500	<2300	10800 J	<4000	<2300	17700	<2300	16300	207000	43400	4080000	53200	14300	<16000	<2300	<2300	6790000	<2900	5730 J	<2300	20900000	32,146,940
A#2-5	Groundwater (ug/L)																									
	7-10	<2000	120 J	<40	<130	<110	<78	<68	<64	419	<44	<43	156 J	<51	2660	<44	<87	<400	<50	<100	16400	<43	97.4 J	<82	25400	45,252
	16-20	<200	<6.2	<4	<13	<11	<7.8	<6.8	<6.4	19.7 J	<4.4	<4.3	22.7	<5.1	267	<4.4	<8.7	<40	<5	<10	820	<4.3	<6.9	<8.2	2760	3,889
A#2-6	Soil (ug/kg)																									
	3	<4200	361	341	<84	<42	<52	<74	<42	3990	<42	73.7 J	938	230	3340	79.9 J	<71	2290	<42	<42	25200	<54	<42	133 J	28700	66,145
	5	<490000	11900 J	20400 J	<9800	<4900	8660 J	<8700	<4900	93500	<4900	9070 J	129000	25500 J	859000	30900	12900 J	<36000	8180 J	<4900	4230000	<6300	88100	<4900	8510000	14,071,510
A#2-6	Groundwater (ug/L)																									
	7-10	<10000	537 J	<200	<670	<530	<390	<340	<320	7750	<220	<220	596 J	<260	10400	<220	<440	<2000	388 J	<500	134000	<220	1750	<410	105000	260,421
	17-20	<200	32.9	9.3 J	<13	<11	<7.8	<6.8	<6.4	67	<4.4	<4.3	<6.5	<5.1	142	<4.4	<8.7	<40	<5.0	<10	1180	<4.3	12.2 J	10.9 J	1260	2,714
A#2-7	Soil (ug/kg)																									
	3	<5100	63.4 J	357	<100	<51	<63	<89	<51	1070	<51	111 J	1360	323	2380	60 J	<86	2410	<51	<51	7530	<65	<51	<51	22600	38,264
	5	<460000	<5600	32200	<9200	<4600	<5800	<8200	<4600	57200	<4600	7950 J	112000	21000 J	697000	26700	<7900	<34000	<4600	<4600	1540000	<5900	<4600	<4600	7950000	10,453,750
A#2-7	Groundwater (ug/L)																									
	7-10	<2000	256	<40	<670	<110	<78	<68	<64	3320	<44	<43	486	<51	11000	148 J	<87	<400	108 J	<100	63200	<43	990	<82	129000	208,508
	17-20	<50	23.4	5.5	<3.3	<2.7	<2.0	<1.7	<1.6	16	<1.1	<1.1	5.8	<1.3	71.4	1.3 J	<2.2	<10	<1.2	<2.5	227	<1.1	1.8 J	3 J	800	1,155

**Table 1. Summary of Soil and Groudwater Analyses from Area #2 and #3  
Brenntag Southeast, Charleston, South Carolina  
(revised 08/21/2021)**

Sample ID	Depth (ft bls)	AC	Ben	CB	CH	C <sub>2</sub> Dis	Cyhex	1,1-DCA	1,1-DCE	Cis-1,2-DCE	trans-1,2-DCE	m-DCB	o-DCB	p-DCB	EB	IPB	MCH	MEK	1,1,1-TCA	1,2,4-TB	Toluene	PCE	TCE	VC	Xylene	Total
A#2-8	Soil (ug/kg)																									
	3	6750 J	46.2 J	<37	<75	<37	<47	<66	<37	220	<37	<37	556	84.7 J	3230	84.7 J	<410	6400	<37	<37	11200	<48	<37	<37	36400	65,464
	5	<91000	4000 J	<910	<1800	<910	<1100 J	<1600	<910	10300	<910	3710 J	50300	10100	1260000	28600	9440	7390 J	938 J	<910	2200000	<1200	1670 J	<910	10400000	13,990,258
A#2-8	Groundwater (ug/L)																									
	7-10	<2000	122 J	<40	<130	<110	<78	<68	<64	264	<44	<43	457	<51	8770	101 J	<87	<400	<50	<100	28200	<43	<69	<82	91200	129,114
	17-20	<200	<6.2	<4	<13	<11	<7.8	<6.8	<6.4	15.9 J	<4.4	<4.3	<6.5	<5.1	312	<4.4	<8.7	<40	<5	<10	1320	<4.3	<6.9	<8.2	3110	4,758
A#2-9	Soil (ug/kg)																									
	3	<4600	96.3 J	777	<92	55.5 J	57.6 J	<81	<46	360	<46	232	803	920	14100	268	179 J	<330	<46	<46	18500	<59	<46	<46	1660000	1,696,348
	6	<440000	<5400	<4400	<8900	<4400	<5500	<7900	<4400	<6100	<4400	4720 J	63800	13000 J	523000	15400 J	<7500	<32000	<4400	<4400	734000	<5700	7590 J	<4400	7040000	8,401,510
A#2-9	Groundwater (ug/L)																									
	7-10	<2000	<62	<40	<130	<110	<78	<68	<64	186 J	<44	<43	774	<51	10700	93.8 J	<87	<400	50.4 J	<100	18500	<43	274	<82	100000	130,578
	17-20	<100	<3.1	<2	<6.7	<5.3	<3.9	<3.4	<3.2	<2.8	<2.2	<2.2	9.2 J	<2.6	122	<2.2	<4.4	<20	<2.5	<5	278	<2.2	<3.5	<4.1	1470	1,879
A#2-10	Soil (ug/kg)																									
	3	<4400	<54	1160	<89	<44	<55	<79	<44	<61	<44	286	1520	1080	16000	775	237	<320	<44	93.2 J	6850	<57	<44	<44	60500	88,501
	6	<4200	<51	155 J	<83	<42	<52	<73	<42	<57	<42	<42	<42	53.8 J	1870	136 J	95 J	<300	<42	<42	1560	<53	<42	<42	5540	9,410
A#2-10	Groundwater (ug/L)																									
	7-10	<20	18.8	23	<1.3	<1.1	3.6	<0.68	<0.64	6.2	<0.44	0.59 J	2.7	2.2	69.3	50.3	21	<4	<0.50	<1	13.8	<0.43	<0.69	<0.82	205	416.5
	17-20	<10	1.3	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	0.40 J	<0.22	<0.22	<0.32	<0.26	4.7	0.31 J	<0.44	<2	<0.25	<0.50	3.7	<0.22	<0.35	<0.41	28.9	39.3
A#2-11	Soil (ug/kg)																									
	3	75 J	1.3 J	28.8	1.5	1.2 J	1.9 J	<1.3	<0.73	1.2 J	<0.73	1.1 J	2.5 J	3.4 J	1.7 J	<0.73	4	8.1 J	<0.73	<0.73	<7.3	<0.94	<0.73	2.4 J	2.7 J	135.3
	5	<76	<0.93	16.7	<1.5	<0.76	<0.95	<1.3	<0.76	<1.1	<0.76	<0.76	<0.76	<0.88	<0.76	<1.3	<5.5	<0.76	<0.76	<7.6	<0.97	<0.76	<0.76	<1.6	16.7	
A#2-11	Groundwater (ug/L)																									
	7-10	<20	7.9	19.9	<1.3	<1.1	<0.78	<0.68	<0.64	45	<0.44	<0.43	1.8 J	1.2 J	77.1	12.1	3.1	<4.0	<0.50	<1.0	16.3	<0.43	<0.69	4.8	162	351.2
	17-20	<20	6.2	<0.40	<1.3	<1.1	<0.78	<0.68	<0.64	<0.55	<0.44	<0.43	<0.65	<0.51	4.7	0.75 J	<0.87	<4.0	<0.50	<1.0	4.8	<0.43	<0.69	<0.82	40.9	57.3
A#2-12	Soil (mg/kg)																									
	3	<70	<0.85	<0.70	<1.4	<0.70	<0.87	<1.2	<0.70	<0.96	<0.96	<0.70	<0.70	<0.80	<0.70	<0.70	<1.2	<5.1	<0.70	<0.70	<7	<0.89	<0.70	<0.70	<1.5	0
	6	<81	2.1 J	4 J	<1.6	<0.81	<1	<1.4	<0.81	<1.1	<0.81	<0.81	<0.81	<0.93	<0.81	<0.81	<1.4	<5.9	<0.81	<0.81	<8.1	<1	<0.81	<0.81	<1.7	6.1
A#2-12	Groundwater (ug/L)																									
	7-10	<20	2.3	<0.40	<1.3	<1.1	<0.78	<0.68	<0.64	62.1	<0.44	<0.43	0.79 J	<0.51	36.4	5.3	1.6 J	<4.0	<0.50	<1.0	3.8	<0.43	<0.69	6.5	86.3	205
	17-20	27.1	<0.62	<0.40	<1.3	<1.1	<0.78	<0.68	<0.64	6.5	<0.44	<0.43	<0.65	<0.51	5.5	<0.44	<0.87	<4.0	<0.50	<1.0	3.3	<0.43	<0.69	<0.82	28.8	71
A#2-13	Soil (ug/kg)																									
	3	293	<0.96	3.8 J	<1.6	7	<0.98	<1.4	<0.79	<1.1	<0.79	<0.79	4.6	4.5	47.8	9	2.9 J	32	<0.79	<0.79	28.2	<1	<0.79	<0.79	106	540
	6	179	18.5	31.7	<1.6	2.7 J	5.2	<1.4	<0.78	<1.1	<0.78	1.8 J	2.6 J	8.1	86	59.5	54.3	22.2	<0.78	<0.78	44.7	<1	<0.78	<0.78	144	651.3
A#2-13	Groundwater (ug/L)																									
	7-10	<50	3.8 J	<1.0	<3.3	<2.7	<2.0	<1.7	<1.6	9.8	<1.1	<1.1	<1.6	<1.3	259	17.6	3.2 J	<10	<1.2	<2.5	10.1	<1.1	<1.7	<2.0	314	617.5
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	1.3	<0.22	<0.22	<0.32	<0.26	3.1	0.36 J	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	4.7	9.5
A#2-14	Soil (ug/kg)																									
	3	<5200	<63	<52	<100	<52	<65	<91	<52	<71	<52	<52	<52	<59	3200	332	219 J	<380	<52	<52	<520	<66	<52	<52	2050	5,801
	6	<72	8.5	<0.72	<1.4	0.89 J	4	<1.3	<0.72	<1.0	<0.72	<0.72	2.1 J	<0.83	8.9	134	90.8	<5.2	<0.72	<0.72	<7.2	<0.92	<0.72	<0.72	4.3 J	253.5
A#2-14	Groundwater (ug/L)																									
	7-10	<20	3.2	<0.40	<1.3	<1.1	<0.78	<0.68	<0.64	2.6	<0.44	<0.43	<0.65	<0.51	100	17.2	2.2	<4.0	<0.50	<1.0	<0.60	<0.43	<0.69	<0.82	112	237
	17-20	14 J	<0.31	<0.20	<0.67	0.77 J	<0.39	<0.34	<0.32	0.44 J	<0.22	<0.22	<0.32	<0.26	1.1	<0.22	<0.44	<2.0	<0.25	<0.50	0.61 J	<0.22	<0.35	<0.41	<0.72	17
A#2-15	Soil (ug/kg)																									
	3	<70	<0.86	<0.70	<1.4	<0.7	<0.88	<1.2	<0.70	<0.97	<0.7	<0.7	<0.7	<0.81	<0.7	<0.7	<1.2	<5.1	<0.7	<0.7	<7	<0.9	<0.7	<0.7	<1.5	0
	5	119 J	<0.92	<0.76	<1.5	<0.76	<0.95	<1.3	<0.76	<1	<0.76	<0.76	<0.76	<0.87	<0.76	<0.76	<1.3	8 J	<0.76	<0.76	<7.6	<0.97	<0.76	<0.76	<1.6	127
A#2-15	Groundwater (ug/L)																									
	7-10	<10	0.64 J	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	69.4	0.44 J	<0.22	<0.32	<0.26	18.6	0.90 J	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	12.8	33.9	137
	17-20	19.8 J	<0.31	<0.20	<0.67	0.84 J	<0.39	<0.34	<0.32	0.51 J	<0.22	<0.22	<0.32	<0.26	0.47 J	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	22

**Table 1. Summary of Soil and Groudwater Analyses from Area #2 and #3  
Brenntag Southeast, Charleston, South Carolina  
(revised 08/21/2021)**

Sample ID	Depth (ft bls)	AC	Ben	CB	CH	C <sub>2</sub> Dis	Cyhex	1,1-DCA	1,1-DCE	Cis-1,2-DCE	trans-1,2-DCE	m-DCB	o-DCB	p-DCB	EB	IPB	MCH	MEK	1,1,1-TCA	1,2,4-TB	Toluene	PCE	TCE	VC	Xylene	Total	
A#2-16	Soil (ug/kg)																										
	3	<68	<0.83	<0.68	<1.4	<0.68	<0.85	<1.2	<0.68	<0.94	<0.68	<0.68	<0.68	<0.78	<0.68	<0.68	<1.2	<5	<0.68	<0.68	<6.8	<0.87	<0.68	<0.68	<1.4	0	
	5	<77	<0.94	<0.77	<1.5	<0.77	<0.97	<1.4	<0.77	<1.1	<0.77	<0.77	<0.77	<0.89	<0.77	<0.77	<1.3	<5.6	<0.77	<0.77	<7.7	<0.99	<0.77	<0.77	<1.6	0	
A#2-16	Groundwater (ug/L)																										
	7-10	<250	<7.8	<5.0	<17	<13	<9.8	<8.5	<8.1	1830	<5.5	<5.4	<8.1	<6.4	<8.9	<5.5	<11	<50	<6.2	<13	<7.5	<5.4	<8.6	1820	<18	3,650	
	17-20	<2500	<78	<50	<170	<130	<98	<85	<81	23500	177 J	<54	<81	<64	<89	<55	<110	<500	<62	<130	<75	<54	<86	2190	<180	25,867	
A#2-17	Soil (ug/kg)																										
	3	<69	<0.84	<0.69	<1.4	<0.69	<0.87	<1.2	<0.69	<0.96	<0.69	<0.69	<0.69	<0.80	<0.69	<0.69	<1.2	<5	<0.69	<0.69	<6.9	<0.89	<0.69	<0.69	<1.5	0	
	5	69.9 J	<0.84	<0.69	<1.4	1.6 J	<0.86	<1.2	<0.69	<0.95	<0.69	<0.69	<0.69	<0.79	<0.69	<0.69	<1.2	7.3 J	<0.69	<0.69	<6.9	<0.88	<0.69	<0.69	<1.4	78.8	
A#2-17	Groundwater (ug/L)																										
	7-10	<500	<16	<10	<33	<27	<20	<17	<16	4880	<11	<11	<16	<13	<18	<11	<22	<100	<12	<25	<15	<11	<17	1130	<36	6,010	
	17-20	<1000	<31	<20	<67	<53	<39	<34	<32	15400	177	<22	<32	<26	<36	<22	<44	<200	<25	<50	<30	<22	463	141	<72	16,181	
A#2-18	Soil (ug/kg)																										
	3	<76	<0.92	<0.76	<1.5	<0.76	<0.95	<1.3	<0.76	<1	<0.76	<0.76	<0.76	<0.87	<0.76	<0.76	<1.3	<5.5	<0.76	<0.76	<7.6	<0.97	<0.76	<0.76	<1.6	0	
	5	<81	<0.99	<0.81	<1.6	<0.81	<1	<1.4	<0.81	2.2 J	<0.81	<0.81	<0.81	<0.94	<0.81	<0.81	<1.4	<5.9	<0.81	<0.81	<8.1	<1	<0.81	<0.81	<1.7	2.2	
A#2-18	Groundwater (ug/L)																										
	7-10	<2500	<78	<50	<170	<130	<98	<85	<81	5650	99.2 J	<54	<81	<64	<89	<55	<110	<500	<62	<130	<75	<54	16800	232 J	<180	22,781	
	17-20	Dry																									
A#2-19	Soil (ug/kg)																										
	3	77 J	<0.86	<0.71	<1.4	<0.71	<0.88	<1.3	<0.71	57.2	0.76 J	<0.71	<0.71	<0.81	<0.71	<0.71	<1.2	5.5 J	<0.71	<0.71	<7.1	<0.91	3.5	<0.71	<1.5	144	
	5	<85	<1	<0.85	<1.7	<0.85	<1.1	<1.5	<0.85	70.4	0.96 J	<0.85	<0.85	<0.98	<0.85	<0.85	<1.4	<6.2	<0.85	<0.85	<8.5	<1.1	28.2	2.2 J	<1.8	102	
A#2-19	Groundwater (ug/L)																										
	7-10	<2500	<78	<50	<170	<130	<98	<85	<81	12900	76.6 J	<54	<81	<64	<89	<55	<110	<500	<62	<130	<75	<54	6090	224 J	<180	19,291	
	17-20	<1000	<31	<20	<67	<53	<39	<34	<32	5290	78 J	<22	<32	<26	<36	<22	<44	<200	<25	<50	<30	<22	1220	518	<72	7,106	
A#2-20	Soil (ug/kg)																										
	3	74.4 J	6.3	85.3	<1.3	<0.67	18.7	3 J	<0.67	7.6	0.74 J	2.6 J	10.8	10.8	9.8	<0.67	12.7	14.7 J	<0.67	<0.67	<6.7	<0.86	<0.67	2.3 J	40.4	300.14	
	5	78.2	1.5 J	8.4	<1.3	<0.67	11	1.6 J	<0.67	2.4 J	<0.67	<0.67	1.3 J	1.6 J	5.9	<0.67	6.6	8.5 J	<0.67	<0.67	<6.7	<0.85	<0.67	1.5 J	31.2	160	
A#2-20	Groundwater (ug/L)																										
	7-10	<20	2	3.2	<1.3	<1.1	2.5	<0.68	<0.64	4.4	<0.44	<0.43	1.3 J	<0.51	17.3	<0.44	<0.87	<4	<0.50	<1	31.2	<0.43	<0.69	8	177	247	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	1.4	<0.22	<0.22	<0.47 J	<0.26	7.8	<0.22	<0.44	<2	<0.25	<0.50	10	<0.22	<0.35	<0.41	79.2	99	
A#2-21	Soil (ug/kg)																										
	3	<67	<0.82	<0.67	<1.3	<0.67	<0.84	<1.2	<0.67	<0.92	<0.67	<0.67	<0.67	<0.77	<0.67	<0.67	<1.1	<4.9	<0.67	<0.67	<6.7	<0.86	<0.67	<0.67	<1.4	0	
	5	<72	<0.88	<0.72	<1.4	<0.72	<0.90	<1.3	<0.72	<0.99	<0.72	<0.72	<0.72	<0.83	<0.72	<0.72	<1.2	<5.2	<0.72	<0.72	<7.2	<0.92	<0.72	<0.72	<1.5	0	
A#2-21	Groundwater (ug/L)																										
	7-10	Not Sampled																									
	17-20	Not Sampled																									
A#2-22	Soil (ug/kg)																										
	3	<64	<0.79	<0.64	<1.3	<0.64	<0.80	<1.1	<0.64	<0.89	<0.64	<0.64	<0.64	<0.74	<0.64	<0.64	<1.1	<4.7	<0.64	<0.64	<6.4	<0.82	<0.64	<0.64	<1.4	0	
	6	<69	<0.84	<0.69	<1.4	<0.69	<0.86	<1.2	<0.69	9.1	<0.69	<0.69	<0.69	<0.79	<0.69	<0.69	<1.2	<5	<0.69	<0.69	<6.9	<0.88	<0.69	1.3 J	<1.4	10.4	
A#2-22	Groundwater (ug/L)																										
	7-10	<20	<0.62	<0.40	<1.3	<1.1	<0.78	<0.68	<0.64	6	<0.44	<0.43	<0.65	<0.51	<0.71	<0.44	<0.87	<4.0	<0.50	<1.0	<0.60	<0.43	1.8 J	6	<1.4	14	
	17-20	<5000	<160	<100	<330	<270	<200	<170	560	14,000	406 J	<110	<160	<130	<180	<110	<220	<1000	<120	<250	<150	<110	538000	<200	<360	552,966	
A#2-23	Soil (ug/kg)																										
	3	<82	<1	<0.82	<1.6	<0.82	<1	<1.5	<0.82	<1.1	<0.82	<0.82	<0.82	<0.94	<0.82	<0.82	<1.4	<6	<0.82	<0.82	<8.2	<1	2.1 J	<0.82	<1.7	2.1	
	5	<72	<0.88	<0.72	<1.4	0.89 J	<0.90	<1.3	<0.72	<1	<0.72	<0.72	<0.72	<0.83	<0.72	<0.72	<1.2	<5.2	<0.72	<0.72	<7.2	<0.92	0.94 J	<0.72	<1.5	1.8	
A#2-23	Groundwater (ug/L)																										
	7-10	<25	<0.78	<0.50	<1.7	<1.3	<0.98	<0.85	<0.81	<0.69	<0.55	<0.54	<0.81	<0.64	<0.89	<0.55	<1.1	<5.0	<0.62	<1.3	<0.75	<0.54	74.2	<1.0	<1.8	74.2	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.22	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	12.4	<0.41	<0.72	12.4	



**Table 1. Summary of Soil and Groudwater Analyses from Area #2 and #3  
Brenntag Southeast, Charleston, South Carolina  
(revised 08/21/2021)**

Sample ID	Depth (ft bls)	AC	Ben	CB	CH	C <sub>2</sub> Dis	Cyhex	1,1-DCA	1,1-DCE	Cis-1,2-DCE	trans-1,2-DCE	m-DCB	o-DCB	p-DCB	EB	IPB	MCH	MEK	1,1,1-TCA	1,2,4-TB	Toluene	PCE	TCE	VC	Xylene	Total	
A#2-24	Soil (ug/kg)																										
	3	<79	<0.96	<0.79	<1.6	<0.79	<0.99	<1.4	<0.79	<1.1	<0.79	<0.79	<0.79	<0.91	<0.79	<0.79	<1.3	<5.7	<0.79	<0.79	<7.9	<1	9.5	1.2 J	<1.7	10.7	
	6	<70	<0.85	<0.70	<1.4	2.8 J	<0.87	<1.2	2.6 J	2090	12.2	<0.70	<0.70	<0.80	<0.70	<0.70	<1.2	6.5 J	<0.70	<0.70	<7	<0.89	4.7	165 J	<1.5	2,284	
A#2-24	Groundwater (ug/L)																										
	7-10	<25	<0.78	<0.50	<1.7	<1.3	<0.98	<0.85	<0.81	191	1.4 J	<0.54	<0.81	<0.64	<0.89	<0.55	<1.1	<5.0	<0.62	<1.3	<0.75	<0.54	1.8 J	12.9	<1.8	207	
	17-20	<5000	<160	<100	<330	<270	<200	<170	345 J	2810	<110	<110	<160	<130	<180	<110	<220	<1000	<120	<250	<150	331 J	316000	<200	<360	319,486	
A#2-25	Soil (ug/kg)																										
	3	183	<0.80	<0.66	<1.3	1.2 J	<0.82	<1.2	<0.66	3.2 J	1.3 J	<0.66	<0.66	<0.75	1.9 J	1.6 J	<1.1	32.8	<0.66	<0.66	<6.6	<0.84	59	5.3	4.7 J	294	
	5	122	<0.99	<0.81	<1.6	3 J	<1	<1.4	<0.81	3.4 J	1.1 J	<0.81	<0.81	<0.93	<0.81	<0.81	<1.4	21	<0.81	<0.81	<8.1	<1	1230	4.2	1.9 J	1,287	
A#2-25	Groundwater (ug/L)																										
	7-10	<50	<1.6	<1.0	<3.3	<2.7	<2.0	<1.7	<1.6	442	7	<1.1	1.6	<1.3	<1.8	<1.1	<2.2	<10	<1.2	<2.5	<1.5	<1.1	<1.7	20.9	<3.6	470	
	17-20	<10000	<310	<200	<670	<530	<390	<340	460 J	17400	1070	<220	<320	<260	<360	<220	<440	<2000	<250	<500	<300	<220	313000	<410	<720	331,930	
A#2-26	Soil (ug/kg)																										
	3	<18000	<220	<180	<370	<180	<230	<320	<180	<250	<180	<180	390 J	<210	2970	<180	<310	<1300	<180	<180	<1800	<230	<180	<180	13600	16,960	
	6	<90000	1590 J	<900	<1800	<900	2190 J	<1600	<900	<1200	<900	5680	73900	15000	1020000	24900	2700 J	<6600	<900	<900	503000	<1200	1390 J	<900	5440000	7,090,350	
A#2-26	Groundwater (ug/L)																										
	7-10	<2000	<62	<40	<130	<110	<78	<68	<64	<55	<44	<43	611	167 J	9090	121 J	<87	<400	<50	<100	3220	<43	<69	<82	51400	64,609	
	17-20	<10	1.1	<0.20	<0.67	1 J	<0.39	<0.34	<0.32	8.6	<0.22	<0.22	1.8	<0.26	46.1	0.48 J	<0.44	<2.0	<0.25	<0.50	40.7	<0.22	<0.35	<0.41	235	335	
A#2-27	Soil (ug/kg)																										
	3	<62	<0.75	<0.62	<1.2	<0.62	<0.77	<1.1	<0.62	<0.85	<0.62	<0.62	<0.62	<0.71	<0.62	<0.62	<1.0	<4.5	<0.62	<0.62	<6.2	<0.79	4.3	<0.62	<1.3	11.6	
	5	<79	<0.96	<0.79	<1.6	<0.79	<0.98	<1.4	<0.79	<1.1	<0.79	<0.79	<0.79	<0.90	<0.79	<0.79	<1.3	<5.7	<0.79	<0.79	<7.9	<1.0	4.7	<0.79	<1.7	17.5	
A#2-27	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
A#2-28	Soil (ug/kg)																										
	3	<74	<0.90	<0.74	<1.5	<0.74	<0.92	<1.3	<0.74	36.4	<0.74	<0.74	<0.74	<0.85	<0.74	<0.74	<1.3	<5.4	<0.74	<0.74	<7.4	<0.94	36.3	1.5	<1.5	74.2	
	5	<63	<0.77	<0.63	<1.3	1.8	<0.79	<1.1	39.6	31900	374	<0.63	<0.63	<0.72	<0.63	<0.63	<1.1	<4.6	<0.63	<0.63	<6.3	66.9	162000	265	2.3	194,649	
A#2-28	Groundwater (ug/L)																										
	7-10	<50000	<1600	<1000	<3300	<2700	<2000	<1700	<1600	3970	<1100	<1600	<1100	<1300	<1800	<1100	<2200	<10000	<1200	<2500	<1500	<1100	27200	<2000	<3600	31,170	
	17-20	<20000	<620	<400	<1300	<1100	<780	<680	<640	540	<440	<650	<430	<510	<710	<440	<870	<4000	<500	<1000	<600	<430	63200	<820	<1400	63,740	
A#2-29	Soil (ug/kg)																										
	3	<70	<0.85	<0.70	<1.4	1.7	<0.87	<1.2	<0.70	542	7.8	<0.70	<0.70	<0.80	<0.70	<0.70	<1.2	<5.1	<0.70	<0.70	<7.0	<0.89	<0.70	13.5	<1.5	577	
	5	<64	<0.78	<0.64	<1.3	4.5	<0.80	<1.1	<0.64	6.8	2.1	<0.64	<0.64	<0.73	<0.64	<0.64	<1.1	8.2	<0.64	<0.64	<6.4	<0.82	2	3.6	<1.3	35	
A#2-29	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	4	23.7	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	55.9	<0.41	<0.72	80	
A#2-30	Soil (ug/kg)																										
	3	<65	<0.80	<0.65	<1.3	<0.65	<0.82	<1.2	2	51.3	18.9	<0.65	<0.65	<0.75	<0.65	<0.65	<1.1	<4.7	<0.65	<0.65	<6.5	<0.84	353	1.6	<1.4	435	
	5	<68	<0.83	<0.68	<1.4	<0.68	<0.85	<1.2	<0.68	16.1	1.6	<0.68	<0.68	<0.78	<0.68	<0.68	<1.2	<4.9	<0.68	<0.68	<6.8	<0.87	9.3	<0.68	<1.4	27	
A#2-30	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	13.6	1.4	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	1.6	0.58	<0.72	17	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	0.58	<0.41	<0.72	0.6	

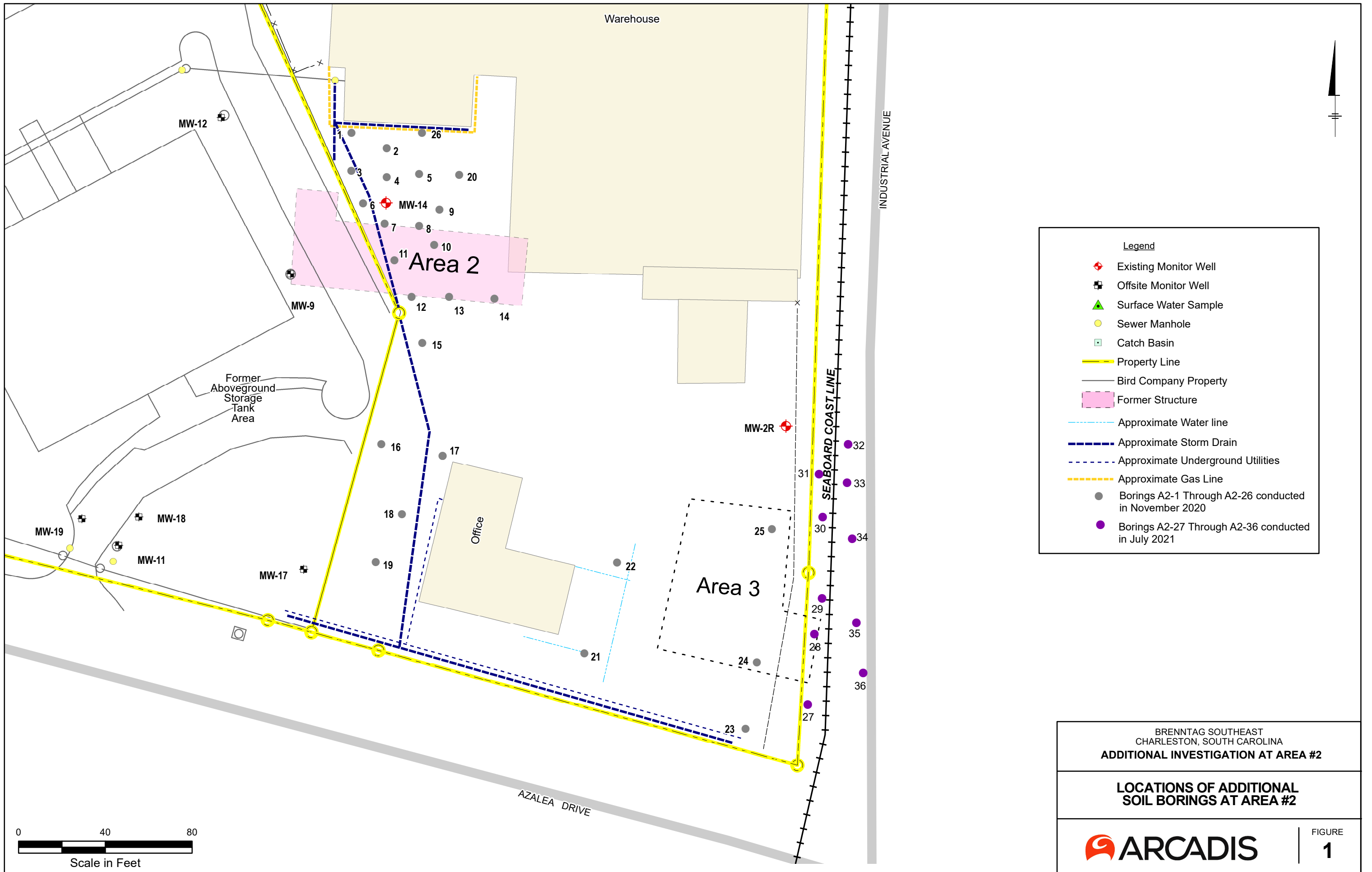
**Table 1. Summary of Soil and Groudwater Analyses from Area #2 and #3 Brenntag Southeast, Charleston, South Carolina (revised 08/21/2021)**

Sample ID	Depth (ft bls)	AC	Ben	CB	CH	C <sub>2</sub> Dis	Cyhex	1,1-DCA	1,1-DCE	Cis-1,2-DCE	trans-1,2-DCE	m-DCB	o-DCB	p-DCB	EB	IPB	MCH	MEK	1,1,1-TCA	1,2,4-TB	Toluene	PCE	TCE	VC	Xylene	Total	
A#2-31	Soil (ug/kg)																										
	3	<60	<0.74	<0.60	<1.2	<0.60	<0.75	<1.1	<0.60	2.6	2.6	<0.60	<0.60	<0.69	<0.60	<0.60	<1.0	<4.4	<0.60	<0.60	<6.0	<0.77	27.9	<0.60	<1.3	33	
	5	<67	<0.82	<0.67	<1.3	<0.67	<0.84	<1.2	<0.67	<0.92	<0.67	<0.67	<0.67	<0.77	<0.67	<0.67	<1.1	<4.9	<0.67	<0.67	<6.7	<0.86	2.6	<0.67	<1.4	3	
A#2-31	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.32	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	1.8	142	1.9	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	431	3.5	<0.72	580	
A#2-32	Soil (ug/kg)																										
	3	<65	<0.79	<0.65	<1.3	<0.65	<0.81	<1.1	<0.65	<0.89	<0.65	<0.65	<0.65	<0.74	<0.65	<0.65	<1.1	<4.7	<0.65	<0.65	<6.5	<0.83	<0.65	<0.65	<1.4	8	
	5	<62	<0.76	<0.62	<1.2	<0.62	<0.78	<1.1	<0.62	<0.86	<0.62	<0.62	<0.62	<0.72	<0.62	<0.62	<1.1	<4.5	<0.62	<0.62	<6.2	<0.80	<0.62	<0.62	<1.3	0	
A#2-32	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.32	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
A#2-33	Soil (ug/kg)																										
	3	112	<0.86	<0.70	<1.4	2.1	<0.88	<1.2	<0.70	<0.97	<0.70	<0.70	<0.70	<0.81	<0.70	<0.70	<1.2	12.4	<0.70	<0.70	<7.0	<0.90	<0.70	<0.70	<1.5	137	
	5	<66	<0.81	<0.66	<1.3	<0.66	<0.83	<1.2	<0.66	<0.92	<0.66	<0.66	<0.66	<0.76	<0.66	<0.66	<1.1	<4.8	<0.66	<0.66	<6.6	<0.85	<0.66	<0.66	<1.4	9	
A#2-33	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
A#2-34	Soil (ug/kg)																										
	3	97.7	<0.65	<0.53	<1.1	<0.53	<0.67	<0.95	<0.53	<0.74	<0.53	<0.53	<0.53	<0.61	<0.53	<0.53	<0.91	16.4	<0.53	<0.53	<5.3	<0.68	<0.53	<0.53	<1.1	114	
	5	<72	<0.87	<0.72	<1.4	<0.72	<0.90	<1.3	<0.72	<0.99	<0.72	<0.72	<0.72	<0.82	<0.72	<0.72	<1.2	<5.2	<0.72	<0.72	<7.2	<0.92	<0.72	<0.72	<1.5	10	
A#2-34	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
A#2-35	Soil (ug/kg)																										
	3	<65	<0.79	<0.65	<1.3	<0.65	<0.81	<1.1	<0.65	38.8	2	<0.65	<0.65	<0.74	<0.65	<0.65	1.4	<4.7	<0.65	<0.65	<6.5	<0.83	23.2	<0.65	<1.4	65	
	5	<77	<0.94	<0.77	<1.5	<0.77	<0.97	<1.4	<0.77	<1.1	<0.77	<0.77	<0.77	<0.89	<0.77	<0.77	<1.3	<5.6	<0.77	<0.77	<7.7	<0.99	<0.77	<0.77	<1.6	0	
A#2-35	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	0.68	<0.41	<0.72	0.7	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	
A#2-36	Soil (ug/kg)																										
	3	<62	<0.76	<0.62	<1.2	<0.62	<0.77	<1.1	<0.62	<0.85	<0.62	<0.62	<0.62	<0.71	<0.62	<0.62	<1.1	<4.5	<0.62	<0.62	<6.2	<0.79	<0.62	<0.62	<1.3	0	
	5	78.2	<0.80	<0.65	<1.3	<0.65	<0.82	<1.2	<0.65	<0.90	<0.65	<0.65	<0.65	<0.75	<0.65	<0.65	<1.1	8.6	<0.65	<0.65	<6.5	<0.84	<0.65	<0.65	<1.4	87	
A#2-36	Groundwater (ug/L)																										
	7-10	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	0.52	<0.41	<0.72	0.5	
	17-20	<10	<0.31	<0.20	<0.67	<0.53	<0.39	<0.34	<0.32	<0.28	<0.22	<0.32	<0.22	<0.26	<0.36	<0.22	<0.44	<2.0	<0.25	<0.50	<0.30	<0.22	<0.35	<0.41	<0.72	0	

Ac=Acetone  
 Ben=Benzene  
 C<sub>2</sub>Dis=Carbon Disulfide  
 CB=Chlorobenzene  
 CH=Chloroethane  
 Cyhex=Cyclohexane  
 1,1-DCA=1,1-Dichloroethane  
 1,1-DCE=1,1-Dichloroethene  
 Cis-1,2-DCE=Cis-1,2-Dichloroethene  
 Trans-1,2-DCE=1,2-Dichloroethene  
 m-DCB=M-Dichlorobenzene  
 o-DCB=O-Dichlorobenzene  
 p-DCB=p-Dichlorobenzene  
 EB=Ethylbenzene  
 IPB=Isopropylbenzene  
 MCH=Methylcyclohexane  
 MEK=Methyl ethyl ketone  
 1,1,1-TCA=1,1,1-Trichloroethane  
 1,2,4-TB=1,2,4-Trichlorobenzene  
 PCE=Tetrachloroethylene  
 TCE=Trichloroethylene  
 VC=Vinyl Chloride  
 ft bls=feet below land surface  
 ug/kg=micrograms per kilograms  
 ug/L=micrograms per liter

# Figures

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\2021\Add Invest\Aug 2021 Add Investigation.mxd Date Saved: 8/21/2021 8:31:31 PM



**Legend**

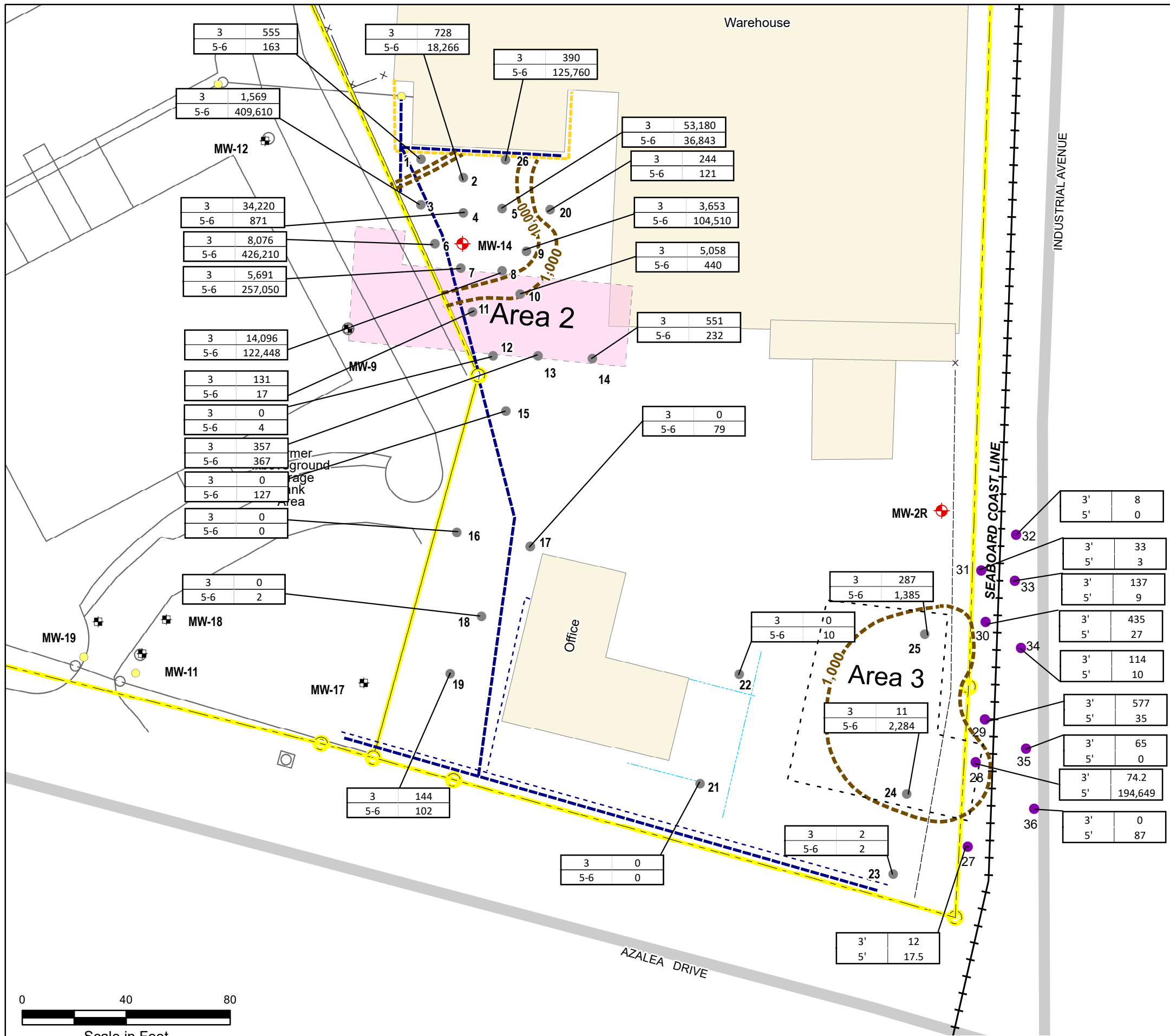
- ◆ Existing Monitor Well
- ⊕ Offsite Monitor Well
- ▲ Surface Water Sample
- Sewer Manhole
- ◻ Catch Basin
- Property Line
- Bird Company Property
- Former Structure
- Approximate Water line
- Approximate Storm Drain
- Approximate Underground Utilities
- Approximate Gas Line
- Borings A2-1 Through A2-26 conducted in November 2020
- Borings A2-27 Through A2-36 conducted in July 2021

BRENTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**ADDITIONAL INVESTIGATION AT AREA #2**

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

**ARCADIS** | **FIGURE 1**

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\2021\Add Invest\Aug 2021 Chlor SOIL Bird Prop4.mxd Date Saved: 8/21/2021 8:59:03 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) Collected Nov 2020
	5-6	163	

- Borings A2-1 Through A2-26 conducted in November 2020
- NS Not Sampled

**1,000** Isoconcentration Contour (µg/kg)

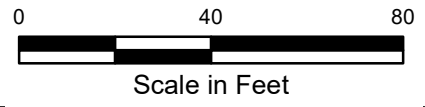
µg/kg Micrograms per Kilogram

Depth in Feet	3'	0	Chlorinated Solvent Concentration (µg/kg) Collected July 2021
	5'	87	

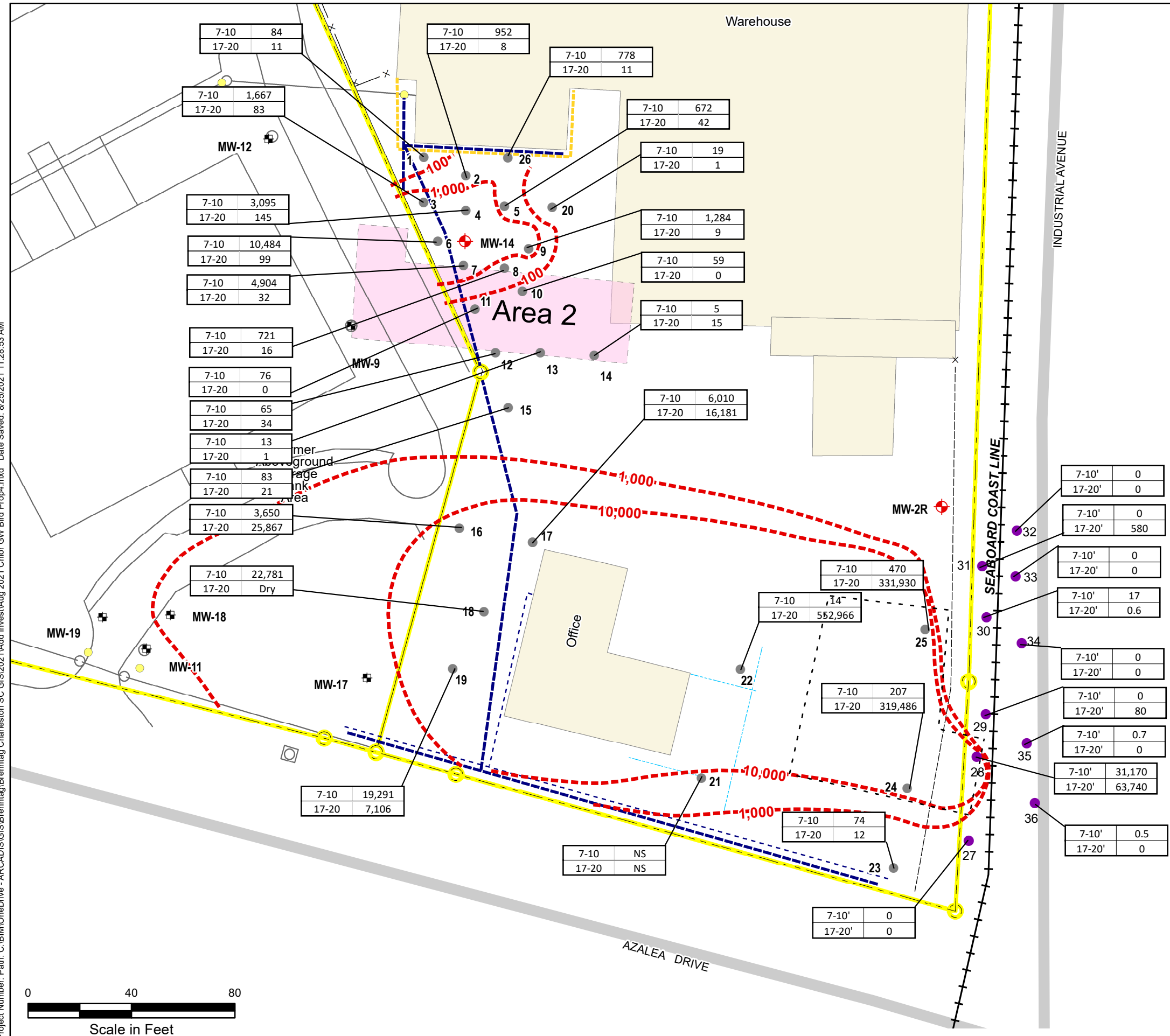
- Borings A2-27 Through A2-36 conducted in July 2021

BRENNTAG SOUTHEAST  
CHARLESTON, SOUTH CAROLINA  
**ADDITIONAL INVESTIGATION AT AREA #2**

**CHLORINATED SOLVENTS  
CONCENTRATIONS IN SOIL**



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\2021\Add Invest\Aug 2021 Chlor GW Prop4.mxd Date Saved: 8/25/2021 11:28:53 AM



**Legend**

- 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	Chlorinated Solvent Concentration (µg/L) Collected Nov 2020
17-20'	31	

Borings A2-1 Through A2-26 conducted in November 2020

NS Not Sampled

1,000 Isoconcentration Contour (µg/L)

µg/L Micrograms per Liter

Depth in Feet	7-10'	0	Chlorinated Solvent Concentration (µg/L) Collected July 2021
	17-20'	0	

Borings A2-27 Through A2-36 conducted in July 2021

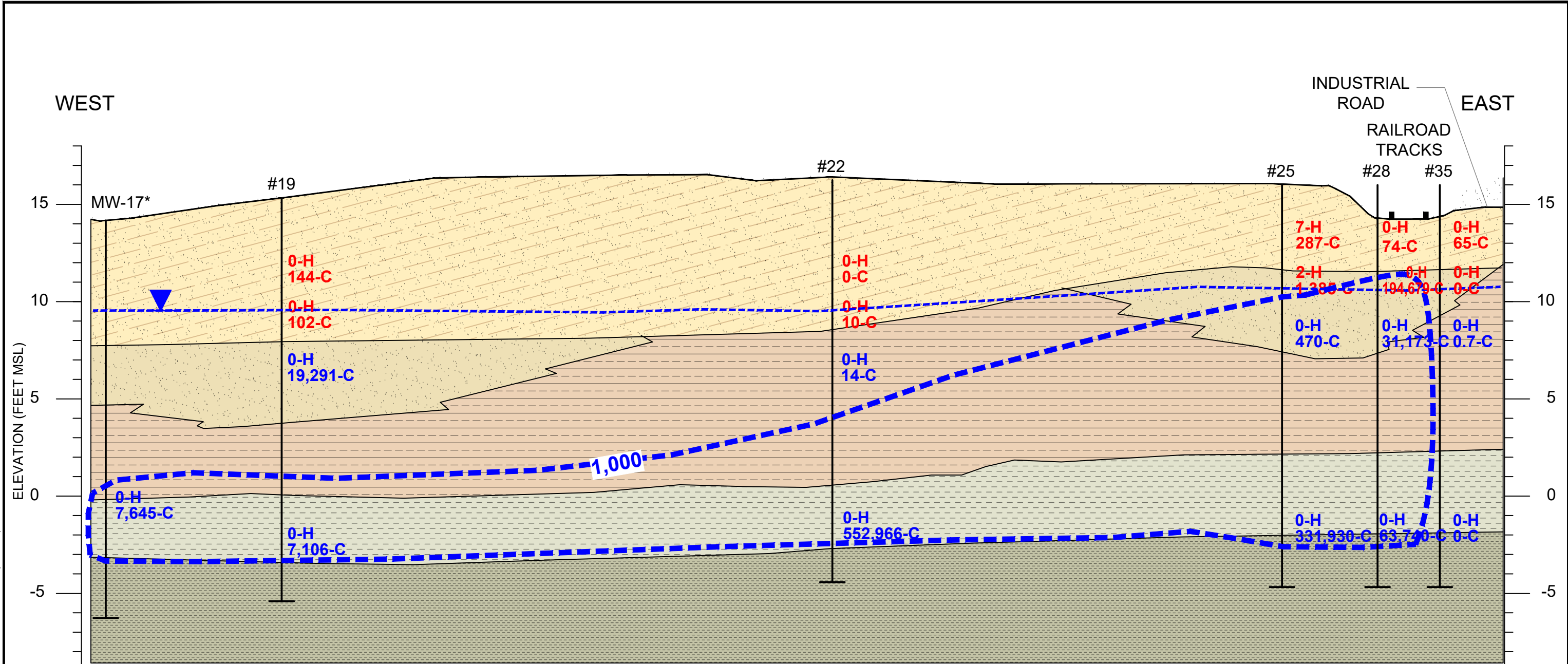
BRENTAG SOUTHEAST  
CHARLESTON, SOUTH CAROLINA  
**ADDITIONAL INVESTIGATION AT AREA #2**

**CHLORINATED SOLVENT  
CONCENTRATIONS IN SHALLOW AQUIFER**

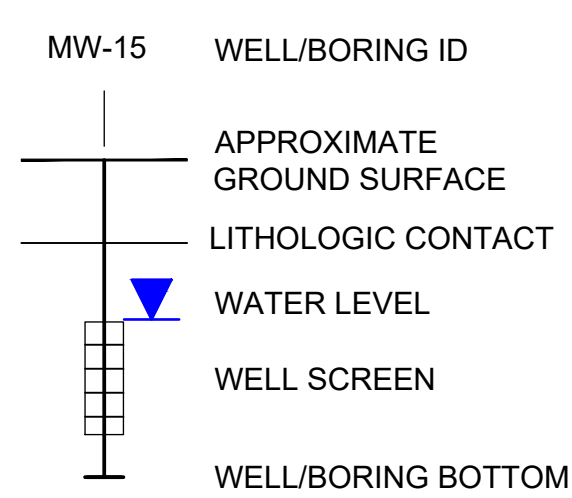
**ARCADIS**

FIGURE **3**

CITY: (KNOXVILLE) DIV: (GROUP: (ENV/IGIS) DB: (B. ALTON) LD: (C. SMITH) PIC: (M. FLEISCHNER) PM: (L. MINER) TM: (J. FRIZZELL)  
 C:\BIM\OnDrive - ARCADIS\SYSTEM\BRENNTAG\SECT AUG 2021.dwg LAYOUT: B-B SAVED: 8/24/2021 12:16 PM ACADVER: 23.05 (LMS TECH) PAGES: 21 PLOT SETUP: --- PLOT STYLE TABLE: PLT\FULL.CTB PLOTTED: 8/25/2021 11:44 AM BY: BERNDGEN, WENDY

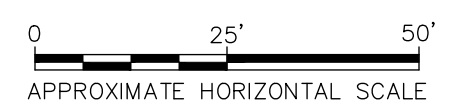
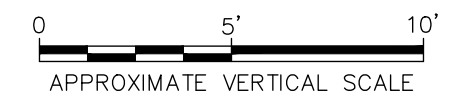


**LEGEND:**



- SILTY SANDS
- SILTY CLAYS/SANDS
- SC STIFF GREEN CLAYS
- STIFF GREEN CLAYS
- TIGHT FINE GRAINED SANDS

- 7 H** (Hydrocarbons)
- 287 H** (Chlorinated)
- 0 H** (Hydrocarbons)
- 470 H** (Chlorinated)
- 1,000** --- ISOCONCENTRATION CONTOUR (mg/L)



BRENNTAG SOUTHEAST  
 CHARLESTON, SOUTH CAROLINA  
**ADDITIONAL INVESTIGATION AT AREA #2**

---

**AREA 1 CROSS-SECTION**

---

Design & Consultancy  
 for natural and  
 built assets

FIGURE  
**4**

# **Appendix A**

**Lithologic Logs**

**DHEC Forms**





























# Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

**1. WELL OWNER INFORMATION:**  
 Name: BREWSTER MIO-SOUTH  
 (last) (first)  
 Address: 4200 Ashley Drive  
 City: CHARLESTON State: S.C. Zip: 29405  
 Telephone: Work: 843-744-7421 Home:

**7. PERMIT NUMBER:**  
 MW-12916

**2. LOCATION OF WELL:** COUNTY:  
 Name:  
 Street Address: SAME AS ABOVE  
 City: Zip:  
 Latitude: Longitude:

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. WELL DEPTH (completed)** Date Started: 7/29/2021  
 20 ft. Date Completed: 7/29/2021

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER:  
 A2-28

**10. CASING:**  Threaded  Welded  
 Diam.: \_\_\_\_\_  
 Type:  PVC  Galvanized  Steel  Other  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: Above/Below \_\_\_\_\_ ft.  
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**4. ABANDONMENT:**  Yes  No  
 Give Details Below  
 Grouted Depth: from 0 ft. to 20 ft.

**11. SCREEN:** Type: \_\_\_\_\_ Diam.: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No  
 NOTE: MULTIPLE SCREENS USE SECOND SHEET

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SILTY SANDS	13	13
SILTY CLAY SAND	3	16
FINE GRAIN SAND	3	29
CLAY		20'

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 20 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes  No Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ Volts \_\_\_\_\_ Length of drop pipe \_\_\_\_\_ ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** David Felder CERT. NO.: 2162  
 Address: (Print) ARM Environmental  
 P.O. Box 50285  
 Columbia, SC  
 Telephone No.: 803 783-3314 Fax No.: 803 783-2587  
 Level: A B C  D (circle one)

\*Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed) 25'

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

**5. REMARKS:**

Signed: David Felder Date: 8/9/21  
 Well Driller

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

If D Level Driller, provide supervising driller's name:  
 Andrew Wilson, cert # 1356















Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal Information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:

Name: BRENNING MIO-SOUTH
Address: 4200 Azalea Drive
City: CHARLESTON State: S.C. Zip: 29405
Telephone: Work: 803-744-7421 Home:

7. PERMIT NUMBER:

MW-12816

8. USE:

- Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well, Replacement

9. WELL DEPTH (completed)

Date Started: 7/28/2021
Date Completed: 7/28/2021

10. CASING: [ ] Threaded [ ] Welded

Diam.:
Type: [ ] PVC [ ] Galvanized [ ] Steel [ ] Other
Height: Above/Below Surface
Weight
Drive Shoe? [ ] Yes [ ] No

11. SCREEN:

Type:
Diam.:
Slot/Gauge:
Length:
Set Between:
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Steve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 5 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.

ft. after hrs. Pumping G.P.M.
Pumping Test: [ ] Yes (please enclose) [X] No
Yield:

14. WATER QUALITY

Chemical Analysis [X] Yes [ ] No Bacterial Analysis [ ] Yes [ ] No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) [X] Yes [ ] No

Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? [X] Yes [ ] No

[X] Best Cement [ ] Bentonite [ ] Bentonite/Cement [ ] Other
Depth: From 0 ft. to 20 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction

Type
Well Disinfected [ ] Yes [ ] No Type: Amount:

18. PUMP: Date installed: Not installed [X]

Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: [ ] Submersible [ ] Jet (shallow) [ ] Turbine
[ ] Jet (deep) [ ] Reciprocating [ ] Centrifugal

19. WELL DRILLER: David Felder CERT. NO.: 2162

Address: (Print) APM Environmental
P.O. Box 50285
Columbia, SC
Level: A B C [D] (circle one)
Telephone No.: 803 783-3714 Fax No.: 803 783-2587

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: David Felder Date: 8/6/21
Well Driller

If D Level Driller, provide supervising driller's name:

Andrew Wilson, cert no. 1358

2. LOCATION OF WELL:

COUNTY:

Name:
Street Address: SAME AS ABOVE
City: Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

A2-34

4. ABANDONMENT: [X] Yes [ ] No

Give Details Below

Grouted Depth: from 0 ft. to 20 ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Rows include SILTY SANDS, SILTY CLAY SAND, FINE GRAIN SAND, CLAY.

5. REMARKS:

- 6. TYPE: [ ] Mud Rotary [ ] Dug [ ] Cable tool [ ] Jetted [ ] Air Rotary [ ] Other [X] Bored [ ] Driven





# **Appendix B**

**Analytical Reports for Soil and Water**

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: FA87682**

**Sampling Dates: 07/28/21 - 07/29/21**



### Report to:

**ARCADIS Geraghty & Miller**

**jbeckner@arcadis-us.com**

**ATTN: Jeff Beckner**

**Total number of pages in report: 54**



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

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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

Job No: FA87682

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

FA87682-1	07/28/21	13:30	CL	07/30/21	SO	Soil	A2-27 (3')
FA87682-2	07/28/21	13:35	CL	07/30/21	SO	Soil	A2-27 (5')
FA87682-3	07/28/21	14:05	CL	07/30/21	SO	Soil	A2-28 (3')
FA87682-4	07/28/21	14:10	CL	07/30/21	SO	Soil	A2-28 (5')
FA87682-5	07/28/21	15:05	CL	07/30/21	SO	Soil	A2-29 (3')
FA87682-6	07/28/21	15:10	CL	07/30/21	SO	Soil	A2-29 (5')
FA87682-7	07/28/21	16:00	CL	07/30/21	SO	Soil	A2-30 (3')
FA87682-8	07/28/21	16:05	CL	07/30/21	SO	Soil	A2-30 (5')
FA87682-9	07/28/21	16:35	CL	07/30/21	SO	Soil	A2-31 (3')
FA87682-10	07/28/21	16:40	CL	07/30/21	SO	Soil	A2-31 (5')
FA87682-11	07/28/21	17:25	CL	07/30/21	SO	Soil	A2-32 (3')
FA87682-12	07/28/21	17:30	CL	07/30/21	SO	Soil	A2-32 (5')

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





## Sample Summary

(continued)

ARCADIS Geraghty & Miller

**Job No:** FA87682

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA87682-13	07/29/21	08:25 CL	07/30/21	SO	Soil	A2-33 (3')
FA87682-14	07/29/21	08:30 CL	07/30/21	SO	Soil	A2-33 (5')
FA87682-15	07/29/21	08:55 CL	07/30/21	SO	Soil	A2-34 (3')
FA87682-16	07/29/21	09:00 CL	07/30/21	SO	Soil	A2-34 (5')
FA87682-17	07/29/21	09:40 CL	07/30/21	SO	Soil	A2-35 (3')
FA87682-18	07/29/21	09:45 CL	07/30/21	SO	Soil	A2-35 (5')
FA87682-19	07/29/21	10:20 CL	07/30/21	SO	Soil	A2-36 (3')
FA87682-20	07/29/21	10:25 CL	07/30/21	SO	Soil	A2-36 (5')
FA87682-21	07/28/21	00:00 CL	07/30/21	AQ	Trip Blank Soil	TRIP BLANK-01

---

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

## Summary of Hits

**Job Number:** FA87682  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 07/28/21 thru 07/29/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>FA87682-1</b>	<b>A2-27 (3')</b>					
Methylene Chloride <sup>a</sup>		7.3 J	12	6.8	ug/kg	SW846 8260D
Trichloroethylene		4.3	3.1	0.62	ug/kg	SW846 8260D
<b>FA87682-2</b>	<b>A2-27 (5')</b>					
Methylene Chloride <sup>b</sup>		12.8 JB	16	8.7	ug/kg	SW846 8260D
Trichloroethylene		4.7	3.9	0.79	ug/kg	SW846 8260D
<b>FA87682-3</b>	<b>A2-28 (3')</b>					
cis-1,2-Dichloroethylene		36.4	3.7	1.0	ug/kg	SW846 8260D
Trichloroethylene		36.3	3.7	0.74	ug/kg	SW846 8260D
Vinyl Chloride		1.5 J	3.7	0.74	ug/kg	SW846 8260D
<b>FA87682-4</b>	<b>A2-28 (5')</b>					
Carbon Disulfide		1.8 J	3.1	0.63	ug/kg	SW846 8260D
1,1-Dichloroethylene		39.6	3.1	0.63	ug/kg	SW846 8260D
cis-1,2-Dichloroethylene		31900	8200	2300	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene <sup>c</sup>		374 E	3.1	0.63	ug/kg	SW846 8260D
Tetrachloroethylene		66.9	3.1	0.81	ug/kg	SW846 8260D
Trichloroethylene		162000	8200	1600	ug/kg	SW846 8260D
Vinyl Chloride <sup>c</sup>		265 E	3.1	0.63	ug/kg	SW846 8260D
Xylene (total)		2.3 J	9.4	1.3	ug/kg	SW846 8260D
<b>FA87682-5</b>	<b>A2-29 (3')</b>					
Carbon Disulfide		1.7 J	3.5	0.70	ug/kg	SW846 8260D
cis-1,2-Dichloroethylene		542	230	65	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene		7.8	3.5	0.70	ug/kg	SW846 8260D
Methylene Chloride <sup>b</sup>		12.3 JB	14	7.7	ug/kg	SW846 8260D
Vinyl Chloride		13.5	3.5	0.70	ug/kg	SW846 8260D
<b>FA87682-6</b>	<b>A2-29 (5')</b>					
2-Butanone (MEK)		8.2 J	16	4.6	ug/kg	SW846 8260D
Carbon Disulfide		4.5	3.2	0.64	ug/kg	SW846 8260D
cis-1,2-Dichloroethylene		6.8	3.2	0.88	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene		2.1 J	3.2	0.64	ug/kg	SW846 8260D
Methylene Chloride <sup>b</sup>		7.3 JB	13	7.0	ug/kg	SW846 8260D
Trichloroethylene		2.0 J	3.2	0.64	ug/kg	SW846 8260D
Vinyl Chloride		3.6	3.2	0.64	ug/kg	SW846 8260D

## Summary of Hits

**Job Number:** FA87682  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 07/28/21 thru 07/29/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**FA87682-7 A2-30 (3')**

1,1-Dichloroethylene	2.0 J	3.3	0.65	ug/kg	SW846 8260D
cis-1,2-Dichloroethylene	51.3	3.3	0.90	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene	18.9	3.3	0.65	ug/kg	SW846 8260D
Methylene Chloride <sup>a</sup>	8.3 J	13	7.2	ug/kg	SW846 8260D
Trichloroethylene	353	330	66	ug/kg	SW846 8260D
Vinyl Chloride	1.6 J	3.3	0.65	ug/kg	SW846 8260D

**FA87682-8 A2-30 (5')**

cis-1,2-Dichloroethylene	16.1	3.4	0.94	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene	1.6 J	3.4	0.68	ug/kg	SW846 8260D
Trichloroethylene	9.3	3.4	0.68	ug/kg	SW846 8260D

**FA87682-9 A2-31 (3')**

cis-1,2-Dichloroethylene	2.6 J	3.0	0.83	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene	2.6 J	3.0	0.60	ug/kg	SW846 8260D
Trichloroethylene	27.9	3.0	0.60	ug/kg	SW846 8260D

**FA87682-10 A2-31 (5')**

Trichloroethylene	2.6 J	3.4	0.67	ug/kg	SW846 8260D
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**FA87682-11 A2-32 (3')**

Methylene Chloride <sup>d</sup>	7.6 J	13	7.1	ug/kg	SW846 8260D
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**FA87682-12 A2-32 (5')**

No hits reported in this sample.

**FA87682-13 A2-33 (3')**

Acetone	112 J	140	70	ug/kg	SW846 8260D
2-Butanone (MEK)	12.4 J	18	5.1	ug/kg	SW846 8260D
Carbon Disulfide	2.1 J	3.5	0.70	ug/kg	SW846 8260D
Methylene Chloride <sup>b</sup>	10.9 JB	14	7.7	ug/kg	SW846 8260D

**FA87682-14 A2-33 (5')**

Methylene Chloride <sup>b</sup>	8.6 JB	13	7.3	ug/kg	SW846 8260D
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## Summary of Hits

**Job Number:** FA87682  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 07/28/21 thru 07/29/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**FA87682-15 A2-34 (3')**

Acetone	97.7 J	110	53	ug/kg	SW846 8260D
2-Butanone (MEK)	16.4	13	3.9	ug/kg	SW846 8260D

**FA87682-16 A2-34 (5')**

Methylene Chloride <sup>b</sup>	9.9 JB	14	7.9	ug/kg	SW846 8260D
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**FA87682-17 A2-35 (3')**

cis-1,2-Dichloroethylene	38.8	3.2	0.89	ug/kg	SW846 8260D
trans-1,2-Dichloroethylene	2.0 J	3.2	0.65	ug/kg	SW846 8260D
Methylcyclohexane	1.4 J	3.2	1.1	ug/kg	SW846 8260D
Trichloroethylene	23.2	3.2	0.65	ug/kg	SW846 8260D

**FA87682-18 A2-35 (5')**

No hits reported in this sample.

**FA87682-19 A2-36 (3')**

No hits reported in this sample.

**FA87682-20 A2-36 (5')**

Acetone	78.2 J	130	65	ug/kg	SW846 8260D
2-Butanone (MEK)	8.6 J	16	4.8	ug/kg	SW846 8260D

**FA87682-21 TRIP BLANK-01**

No hits reported in this sample.

- (a) Suspected laboratory contaminant.
- (b) Suspected laboratory contaminant. Associated CCV and BS recovery outside control limits high.
- (c) Compound was below calibration range in higher dilution.
- (d) Internal standard response(s) outside method criteria due to sample matrix interference; associated analyte(s) ND. Suspected laboratory contaminant.

Sample Results

---

Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> A2-27 (3')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-1		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.9
<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	F0102103.D	1	08/03/21 17:37	SP	n/a	n/a	VF3651
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	9.45 g	5.0 ml
Run #2		

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	120	62	ug/kg	
71-43-2	Benzene	ND	3.1	0.75	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.62	ug/kg	
75-25-2	Bromoform	ND	3.1	0.62	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	4.5	ug/kg	
75-15-0	Carbon Disulfide	ND	3.1	0.62	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.1	0.63	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.62	ug/kg	
75-00-3	Chloroethane	ND	3.1	1.2	ug/kg	
67-66-3	Chloroform	ND	3.1	0.82	ug/kg	
110-82-7	Cyclohexane	ND	3.1	0.77	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.62	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.1	0.62	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.1	1.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.1	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.1	0.62	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.1	0.71	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.1	0.62	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.1	0.62	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.1	0.85	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.1	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.1	0.62	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.62	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	3.1	0.62	ug/kg	
76-13-1	Freon 113	ND	3.1	0.81	ug/kg	
591-78-6	2-Hexanone	ND	15	4.6	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	0.62	ug/kg	
79-20-9	Methyl Acetate	ND	15	5.5	ug/kg	
74-83-9	Methyl Bromide	ND	3.1	1.2	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> A2-27 (3')	
<b>Lab Sample ID:</b> FA87682-1	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<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	3.1	1.2	ug/kg	
108-87-2	Methylcyclohexane	ND	3.1	1.0	ug/kg	
75-09-2	Methylene Chloride <sup>a</sup>	7.3	12	6.8	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	15	4.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.1	0.62	ug/kg	
100-42-5	Styrene	ND	3.1	0.62	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.62	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.1	0.79	ug/kg	
108-88-3	Toluene	ND	12	6.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	0.62	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.62	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.62	ug/kg	
79-01-6	Trichloroethylene	4.3	3.1	0.62	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.1	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	3.1	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	9.2	1.3	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	102%		75-126%
460-00-4	4-Bromofluorobenzene	118%		71-133%

(a) Suspected laboratory contaminant.

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> A2-27 (5')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-2		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 73.3
<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	F0102143.D	1	08/05/21 12:22	SP	n/a	n/a	VF3653
Run #2 <sup>a</sup>	F0102104.D	1	08/03/21 18:01	SP	n/a	n/a	VF3651

Run #	Initial Weight	Final Volume
Run #1	8.67 g	5.0 ml
Run #2	8.67 g	5.0 ml

## 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>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	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	0.90	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.9	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.9	0.79	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	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> A2-27 (5')	
<b>Lab Sample ID:</b> FA87682-2	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 73.3
<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	3.9	1.6	ug/kg	
108-87-2	Methylcyclohexane	ND	3.9	1.3	ug/kg	
75-09-2	Methylene Chloride <sup>c</sup>	12.8	16	8.7	ug/kg	JB
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	4.7	3.9	0.79	ug/kg	
75-69-4	Trichlorofluoromethane <sup>b</sup>	ND	3.9	1.6	ug/kg	
75-01-4	Vinyl Chloride	ND	3.9	0.79	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	112%	111%	75-124%
17060-07-0	1,2-Dichloroethane-D4	113%	111%	72-135%
2037-26-5	Toluene-D8	100%	101%	75-126%
460-00-4	4-Bromofluorobenzene	98%	107%	71-133%

(a) Confirmation run for internal standard areas.

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

(c) Suspected laboratory contaminant. Associated CCV and BS recovery outside control limits high.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> A2-28 (3')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-3		<b>Date Received:</b> 07/30/21
<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	F0102105.D	1	08/03/21 18:25	SP	n/a	n/a	VF3651
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	7.75 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	74	ug/kg	
71-43-2	Benzene	ND	3.7	0.90	ug/kg	
75-27-4	Bromodichloromethane	ND	3.7	0.74	ug/kg	
75-25-2	Bromoform	ND	3.7	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	ND	18	5.4	ug/kg	
75-15-0	Carbon Disulfide	ND	3.7	0.74	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.7	0.75	ug/kg	
108-90-7	Chlorobenzene	ND	3.7	0.74	ug/kg	
75-00-3	Chloroethane	ND	3.7	1.5	ug/kg	
67-66-3	Chloroform	ND	3.7	0.98	ug/kg	
110-82-7	Cyclohexane	ND	3.7	0.92	ug/kg	
124-48-1	Dibromochloromethane	ND	3.7	0.74	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	0.74	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.7	1.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.7	0.74	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.7	0.74	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.7	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.7	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.7	0.74	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.7	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	36.4	3.7	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.7	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.7	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.7	0.74	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.7	0.74	ug/kg	
100-41-4	Ethylbenzene	ND	3.7	0.74	ug/kg	
76-13-1	Freon 113	ND	3.7	0.97	ug/kg	
591-78-6	2-Hexanone	ND	18	5.5	ug/kg	
98-82-8	Isopropylbenzene	ND	3.7	0.74	ug/kg	
79-20-9	Methyl Acetate	ND	18	6.6	ug/kg	
74-83-9	Methyl Bromide	ND	3.7	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> A2-28 (3')	
<b>Lab Sample ID:</b> FA87682-3	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<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	3.7	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	3.7	1.3	ug/kg	
75-09-2	Methylene Chloride	ND	15	8.1	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	0.74	ug/kg	
100-42-5	Styrene	ND	3.7	0.74	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.7	0.74	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.7	0.94	ug/kg	
108-88-3	Toluene	ND	15	7.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.7	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.7	0.74	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.7	0.74	ug/kg	
79-01-6	Trichloroethylene	36.3	3.7	0.74	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.7	1.5	ug/kg	
75-01-4	Vinyl Chloride	1.5	3.7	0.74	ug/kg	J
1330-20-7	Xylene (total)	ND	11	1.5	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	108%		72-135%
2037-26-5	Toluene-D8	102%		75-126%
460-00-4	4-Bromofluorobenzene	112%		71-133%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration 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> A2-28 (5')		
<b>Lab Sample ID:</b> FA87682-4		<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D		<b>Percent Solids:</b> 81.3
<b>Project:</b> Brenntag; Charleston, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0102106.D	1	08/03/21 18:49	SP	n/a	n/a	VF3651
Run #2	F0102144.D	1	08/05/21 12:46	SP	n/a	n/a	VF3653

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.77 g	5.0 ml	
Run #2	10.4 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	130	63	ug/kg	
71-43-2	Benzene	ND	3.1	0.77	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.63	ug/kg	
75-25-2	Bromoform	ND	3.1	0.63	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	4.6	ug/kg	
75-15-0	Carbon Disulfide	1.8	3.1	0.63	ug/kg	J
56-23-5	Carbon Tetrachloride	ND	3.1	0.64	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.63	ug/kg	
75-00-3	Chloroethane	ND	3.1	1.3	ug/kg	
67-66-3	Chloroform	ND	3.1	0.84	ug/kg	
110-82-7	Cyclohexane	ND	3.1	0.79	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.63	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.1	0.63	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.1	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.1	0.63	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.1	0.63	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.1	0.72	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.1	0.63	ug/kg	
75-35-4	1,1-Dichloroethylene	39.6	3.1	0.63	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	31900 <sup>a</sup>	8200	2300	ug/kg	
156-60-5	trans-1,2-Dichloroethylene <sup>b</sup>	374	3.1	0.63	ug/kg	E
78-87-5	1,2-Dichloropropane	ND	3.1	0.63	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.63	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.63	ug/kg	
100-41-4	Ethylbenzene	ND	3.1	0.63	ug/kg	
76-13-1	Freon 113	ND	3.1	0.83	ug/kg	
591-78-6	2-Hexanone	ND	16	4.7	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	0.63	ug/kg	
79-20-9	Methyl Acetate	ND	16	5.6	ug/kg	
74-83-9	Methyl Bromide	ND	3.1	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> A2-28 (5')	
<b>Lab Sample ID:</b> FA87682-4	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 81.3
<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	3.1	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	3.1	1.1	ug/kg	
75-09-2	Methylene Chloride	ND	13	6.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	16	4.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.1	0.63	ug/kg	
100-42-5	Styrene	ND	3.1	0.63	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.63	ug/kg	
127-18-4	Tetrachloroethylene	66.9	3.1	0.81	ug/kg	
108-88-3	Toluene	ND	13	6.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	0.63	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.63	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.63	ug/kg	
79-01-6	Trichloroethylene	162000 <sup>a</sup>	8200	1600	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.1	1.3	ug/kg	
75-01-4	Vinyl Chloride <sup>b</sup>	265	3.1	0.63	ug/kg	E
1330-20-7	Xylene (total)	2.3	9.4	1.3	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	116%	75-124%
17060-07-0	1,2-Dichloroethane-D4	98%	113%	72-135%
2037-26-5	Toluene-D8	98%	98%	75-126%
460-00-4	4-Bromofluorobenzene	99%	96%	71-133%

(a) Result is from Run# 2

(b) Compound was below calibration range in higher dilution.

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> A2-29 (3')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-5		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 80.8
<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	F0102145.D	1	08/05/21 13:10	SP	n/a	n/a	VF3653
Run #2	F0102146.D	1	08/05/21 13:33	SP	n/a	n/a	VF3653
Run #3 <sup>a</sup>	F0102107.D	1	08/03/21 19:12	SP	n/a	n/a	VF3651

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	8.87 g	5.0 ml	
Run #2	8.87 g	5.0 ml	100 ul
Run #3	11.1 g	5.0 ml	

## 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	1.7	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>b</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	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	542 <sup>c</sup>	230	65	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	7.8	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	

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> A2-29 (5')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-6		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.8
<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	F0102147.D	1	08/05/21 13:57	SP	n/a	n/a	VF3653
Run #2 <sup>a</sup>	F0102108.D	1	08/03/21 19:36	SP	n/a	n/a	VF3651

Run #	Initial Weight	Final Volume
Run #1	9.45 g	5.0 ml
Run #2	10.9 g	5.0 ml

## 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	0.78	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)	8.2	16	4.6	ug/kg	J
75-15-0	Carbon Disulfide	4.5	3.2	0.64	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.2	0.65	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	0.64	ug/kg	
75-00-3	Chloroethane <sup>b</sup>	ND	3.2	1.3	ug/kg	
67-66-3	Chloroform	ND	3.2	0.85	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	0.73	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	6.8	3.2	0.88	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	2.1	3.2	0.64	ug/kg	J
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	0.84	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

RL = Reporting Limit

E = Indicates value exceeds calibration 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> A2-29 (5')	
<b>Lab Sample ID:</b> FA87682-6	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 82.8
<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	3.2	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	3.2	1.1	ug/kg	
75-09-2	Methylene Chloride <sup>c</sup>	7.3	13	7.0	ug/kg	JB
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	2.0	3.2	0.64	ug/kg	J
75-69-4	Trichlorofluoromethane <sup>b</sup>	ND	3.2	1.3	ug/kg	
75-01-4	Vinyl Chloride	3.6	3.2	0.64	ug/kg	
1330-20-7	Xylene (total)	ND	9.6	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	75-124%
17060-07-0	1,2-Dichloroethane-D4	108%	106%	72-135%
2037-26-5	Toluene-D8	98%	96%	75-126%
460-00-4	4-Bromofluorobenzene	94%	96%	71-133%

(a) Confirmation run.

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

(c) Suspected laboratory contaminant. Associated CCV and BS recovery outside control limits high.

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> A2-30 (3')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-7		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 71.2
<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	F0102109.D	1	08/03/21 20:00	SP	n/a	n/a	VF3651
Run #2	F0102148.D	1	08/05/21 14:21	SP	n/a	n/a	VF3653

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.8 g	5.0 ml	
Run #2	7.64 g	5.0 ml	100 ul

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	130	65	ug/kg	
71-43-2	Benzene	ND	3.3	0.80	ug/kg	
75-27-4	Bromodichloromethane	ND	3.3	0.65	ug/kg	
75-25-2	Bromoform	ND	3.3	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	4.7	ug/kg	
75-15-0	Carbon Disulfide	ND	3.3	0.65	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.3	0.67	ug/kg	
108-90-7	Chlorobenzene	ND	3.3	0.65	ug/kg	
75-00-3	Chloroethane	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	0.65	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	0.65	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.3	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.3	0.65	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.3	0.65	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	0.65	ug/kg	
75-35-4	1,1-Dichloroethylene	2.0	3.3	0.65	ug/kg	J
156-59-2	cis-1,2-Dichloroethylene	51.3	3.3	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	18.9	3.3	0.65	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.3	0.65	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.3	0.65	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.3	0.65	ug/kg	
100-41-4	Ethylbenzene	ND	3.3	0.65	ug/kg	
76-13-1	Freon 113	ND	3.3	0.86	ug/kg	
591-78-6	2-Hexanone	ND	16	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	3.3	0.65	ug/kg	
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>	A2-30 (3')	<b>Date Sampled:</b>	07/28/21
<b>Lab Sample ID:</b>	FA87682-7	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	71.2
<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	3.3	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	3.3	1.1	ug/kg	
75-09-2	Methylene Chloride <sup>a</sup>	8.3	13	7.2	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	16	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.3	0.65	ug/kg	
100-42-5	Styrene	ND	3.3	0.65	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	0.65	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.3	0.84	ug/kg	
108-88-3	Toluene	ND	13	6.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	0.65	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.3	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.3	0.65	ug/kg	
79-01-6	Trichloroethylene	353 <sup>b</sup>	330	66	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.3	1.3	ug/kg	
75-01-4	Vinyl Chloride	1.6	3.3	0.65	ug/kg	J
1330-20-7	Xylene (total)	ND	9.8	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	111%	75-124%
17060-07-0	1,2-Dichloroethane-D4	104%	109%	72-135%
2037-26-5	Toluene-D8	96%	95%	75-126%
460-00-4	4-Bromofluorobenzene	92%	93%	71-133%

(a) Suspected laboratory contaminant.

(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> A2-30 (5')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-8		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 81.6
<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	F0102149.D	1	08/05/21 14:45	SP	n/a	n/a	VF3653
Run #2 <sup>a</sup>	F0102110.D	1	08/03/21 20:23	SP	n/a	n/a	VF3651

Run #	Initial Weight	Final Volume
Run #1	9.00 g	5.0 ml
Run #2	9.99 g	5.0 ml

## 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	4.9	ug/kg	
75-15-0	Carbon Disulfide	ND	3.4	0.68	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.4	0.69	ug/kg	
108-90-7	Chlorobenzene	ND	3.4	0.68	ug/kg	
75-00-3	Chloroethane <sup>b</sup>	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	16.1	3.4	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6	3.4	0.68	ug/kg	J
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> A2-30 (5')	
<b>Lab Sample ID:</b> FA87682-8	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 81.6
<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	3.4	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	3.4	1.2	ug/kg	
75-09-2	Methylene Chloride <sup>c</sup>	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	9.3	3.4	0.68	ug/kg	
75-69-4	Trichlorofluoromethane <sup>b</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	85%	94%	75-124%
17060-07-0	1,2-Dichloroethane-D4	113%	105%	72-135%
2037-26-5	Toluene-D8	95%	99%	75-126%
460-00-4	4-Bromofluorobenzene	97%	95%	71-133%

(a) Confirmation run.

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

(c) Associated CCV and BS recovery outside 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> A2-31 (3')		
<b>Lab Sample ID:</b> FA87682-9		<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D		<b>Percent Solids:</b> 82.0
<b>Project:</b> Brenntag; Charleston, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0102150.D	1	08/05/21 15:09	SP	n/a	n/a	VF3653
Run #2 <sup>a</sup>	F0102111.D	1	08/03/21 20:47	SP	n/a	n/a	VF3651

Run #	Initial Weight	Final Volume
Run #1	10.1 g	5.0 ml
Run #2	9.08 g	5.0 ml

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	120	60	ug/kg	
71-43-2	Benzene	ND	3.0	0.74	ug/kg	
75-27-4	Bromodichloromethane	ND	3.0	0.60	ug/kg	
75-25-2	Bromoform	ND	3.0	0.60	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	4.4	ug/kg	
75-15-0	Carbon Disulfide	ND	3.0	0.60	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.0	0.61	ug/kg	
108-90-7	Chlorobenzene	ND	3.0	0.60	ug/kg	
75-00-3	Chloroethane <sup>b</sup>	ND	3.0	1.2	ug/kg	
67-66-3	Chloroform	ND	3.0	0.80	ug/kg	
110-82-7	Cyclohexane	ND	3.0	0.75	ug/kg	
124-48-1	Dibromochloromethane	ND	3.0	0.60	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.0	0.60	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.0	1.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.0	0.60	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.0	0.60	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.0	0.69	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.0	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.0	0.60	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.0	0.60	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.6	3.0	0.83	ug/kg	J
156-60-5	trans-1,2-Dichloroethylene	2.6	3.0	0.60	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	3.0	0.60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.0	0.60	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.0	0.60	ug/kg	
100-41-4	Ethylbenzene	ND	3.0	0.60	ug/kg	
76-13-1	Freon 113	ND	3.0	0.80	ug/kg	
591-78-6	2-Hexanone	ND	15	4.5	ug/kg	
98-82-8	Isopropylbenzene	ND	3.0	0.60	ug/kg	
79-20-9	Methyl Acetate	ND	15	5.4	ug/kg	
74-83-9	Methyl Bromide	ND	3.0	1.2	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> A2-31 (3')	
<b>Lab Sample ID:</b> FA87682-9	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 82.0
<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	3.0	1.2	ug/kg	
108-87-2	Methylcyclohexane	ND	3.0	1.0	ug/kg	
75-09-2	Methylene Chloride <sup>c</sup>	ND	12	6.6	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	15	4.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.0	0.60	ug/kg	
100-42-5	Styrene	ND	3.0	0.60	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.0	0.60	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.0	0.77	ug/kg	
108-88-3	Toluene	ND	12	6.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.0	0.60	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.0	0.60	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.0	0.60	ug/kg	
79-01-6	Trichloroethylene	27.9	3.0	0.60	ug/kg	
75-69-4	Trichlorofluoromethane <sup>b</sup>	ND	3.0	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	3.0	0.60	ug/kg	
1330-20-7	Xylene (total)	ND	9.0	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	103%	75-124%
17060-07-0	1,2-Dichloroethane-D4	112%	109%	72-135%
2037-26-5	Toluene-D8	96%	100%	75-126%
460-00-4	4-Bromofluorobenzene	94%	94%	71-133%

(a) Confirmation run.

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

(c) Associated CCV and BS recovery outside 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> A2-31 (5')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-10		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 79.7
<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	F0102112.D	1	08/03/21 21:11	SP	n/a	n/a	VF3651
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	9.36 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	3.4	0.82	ug/kg	
75-27-4	Bromodichloromethane	ND	3.4	0.67	ug/kg	
75-25-2	Bromoform	ND	3.4	0.67	ug/kg	
78-93-3	2-Butanone (MEK)	ND	17	4.9	ug/kg	
75-15-0	Carbon Disulfide	ND	3.4	0.67	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.4	0.68	ug/kg	
108-90-7	Chlorobenzene	ND	3.4	0.67	ug/kg	
75-00-3	Chloroethane	ND	3.4	1.3	ug/kg	
67-66-3	Chloroform	ND	3.4	0.89	ug/kg	
110-82-7	Cyclohexane	ND	3.4	0.84	ug/kg	
124-48-1	Dibromochloromethane	ND	3.4	0.67	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	0.67	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.4	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.4	0.67	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.4	0.67	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.4	0.77	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.4	0.67	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.4	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.4	0.92	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.4	0.67	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.4	0.67	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.4	0.67	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.4	0.67	ug/kg	
100-41-4	Ethylbenzene	ND	3.4	0.67	ug/kg	
76-13-1	Freon 113	ND	3.4	0.88	ug/kg	
591-78-6	2-Hexanone	ND	17	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	3.4	0.67	ug/kg	
79-20-9	Methyl Acetate	ND	17	6.0	ug/kg	
74-83-9	Methyl Bromide	ND	3.4	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>	A2-31 (5')	<b>Date Sampled:</b>	07/28/21
<b>Lab Sample ID:</b>	FA87682-10	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	79.7
<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	3.4	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	3.4	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	3.4	0.67	ug/kg	
100-42-5	Styrene	ND	3.4	0.67	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.4	0.67	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.4	0.86	ug/kg	
108-88-3	Toluene	ND	13	6.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.4	0.67	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.4	0.67	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.4	0.67	ug/kg	
79-01-6	Trichloroethylene	2.6	3.4	0.67	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	3.4	1.3	ug/kg	
75-01-4	Vinyl Chloride	ND	3.4	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	109%		75-124%
17060-07-0	1,2-Dichloroethane-D4	107%		72-135%
2037-26-5	Toluene-D8	97%		75-126%
460-00-4	4-Bromofluorobenzene	91%		71-133%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration 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> A2-32 (3')		
<b>Lab Sample ID:</b> FA87682-11		<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D		<b>Percent Solids:</b> 87.3
<b>Project:</b> Brenntag; Charleston, SC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	F0102113.D	1	08/03/21 21:35	SP	n/a	n/a	VF3651
Run #2							

Run #	Initial Weight	Final Volume
Run #1	8.85 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	65	ug/kg	
71-43-2	Benzene	ND	3.2	0.79	ug/kg	
75-27-4	Bromodichloromethane	ND	3.2	0.65	ug/kg	
75-25-2	Bromoform	ND	3.2	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	4.7	ug/kg	
75-15-0	Carbon Disulfide	ND	3.2	0.65	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.2	0.66	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	0.65	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	0.81	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	0.65	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	0.65	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.2	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.2	0.65	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.65	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	0.65	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.2	0.65	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	0.65	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.2	0.65	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	0.65	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	0.65	ug/kg	
100-41-4	Ethylbenzene	ND	3.2	0.65	ug/kg	
76-13-1	Freon 113	ND	3.2	0.85	ug/kg	
591-78-6	2-Hexanone	ND	16	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	3.2	0.65	ug/kg	
79-20-9	Methyl Acetate	ND	16	5.8	ug/kg	
74-83-9	Methyl Bromide	ND	3.2	1.3	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> A2-32 (3')	
<b>Lab Sample ID:</b> FA87682-11	<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 87.3
<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	3.2	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	3.2	1.1	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	7.6	13	7.1	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	16	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.2	0.65	ug/kg	
100-42-5	Styrene	ND	3.2	0.65	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	0.65	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.2	0.83	ug/kg	
108-88-3	Toluene	ND	13	6.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	0.65	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.2	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	0.65	ug/kg	
79-01-6	Trichloroethylene	ND	3.2	0.65	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.2	1.3	ug/kg	
75-01-4	Vinyl Chloride	ND	3.2	0.65	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	119%		75-124%
17060-07-0	1,2-Dichloroethane-D4	109%		72-135%
2037-26-5	Toluene-D8	110%		75-126%
460-00-4	4-Bromofluorobenzene	133%		71-133%

(a) Internal standard response(s) outside method criteria due to sample matrix interference; associated analyte(s) ND.

(b) Suspected laboratory contaminant.

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> A2-32 (5')		<b>Date Sampled:</b> 07/28/21
<b>Lab Sample ID:</b> FA87682-12		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.7
<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	F0102114.D	1	08/03/21 21:59	SP	n/a	n/a	VF3651
Run #2							

Run #	Initial Weight	Final Volume
Run #1	9.37 g	5.0 ml
Run #2		

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	120	62	ug/kg	
71-43-2	Benzene	ND	3.1	0.76	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.62	ug/kg	
75-25-2	Bromoform	ND	3.1	0.62	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	4.5	ug/kg	
75-15-0	Carbon Disulfide	ND	3.1	0.62	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.1	0.64	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.62	ug/kg	
75-00-3	Chloroethane	ND	3.1	1.2	ug/kg	
67-66-3	Chloroform	ND	3.1	0.83	ug/kg	
110-82-7	Cyclohexane	ND	3.1	0.78	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.62	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.1	0.62	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.1	1.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.1	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.1	0.62	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.1	0.72	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.1	0.62	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.1	0.62	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.1	0.86	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.1	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.1	0.62	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.62	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	3.1	0.62	ug/kg	
76-13-1	Freon 113	ND	3.1	0.82	ug/kg	
591-78-6	2-Hexanone	ND	16	4.7	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	0.62	ug/kg	
79-20-9	Methyl Acetate	ND	16	5.5	ug/kg	
74-83-9	Methyl Bromide	ND	3.1	1.2	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>	A2-32 (5')	<b>Date Sampled:</b>	07/28/21
<b>Lab Sample ID:</b>	FA87682-12	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	85.7
<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	3.1	1.2	ug/kg	
108-87-2	Methylcyclohexane	ND	3.1	1.1	ug/kg	
75-09-2	Methylene Chloride	ND	12	6.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	16	4.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.1	0.62	ug/kg	
100-42-5	Styrene	ND	3.1	0.62	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.62	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.1	0.80	ug/kg	
108-88-3	Toluene	ND	12	6.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	0.62	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.62	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.62	ug/kg	
79-01-6	Trichloroethylene	ND	3.1	0.62	ug/kg	
75-69-4	Trichlorofluoromethane	ND	3.1	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	3.1	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	9.3	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
17060-07-0	1,2-Dichloroethane-D4	112%		72-135%
2037-26-5	Toluene-D8	101%		75-126%
460-00-4	4-Bromofluorobenzene	107%		71-133%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration 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> A2-33 (3')		
<b>Lab Sample ID:</b> FA87682-13		<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D		<b>Percent Solids:</b> 90.3
<b>Project:</b> Brenntag; Charleston, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0102151.D	1	08/05/21 15:49	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	7.86 g	5.0 ml
Run #2		

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	112	140	70	ug/kg	J
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)	12.4	18	5.1	ug/kg	J
75-15-0	Carbon Disulfide	2.1	3.5	0.70	ug/kg	J
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 <sup>a</sup>	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	0.70	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	0.70	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	6.3	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>	A2-33 (3')	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87682-13	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.3
<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	3.5	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	3.5	1.2	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	10.9	14	7.7	ug/kg	JB
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	119%		75-124%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%
2037-26-5	Toluene-D8	101%		75-126%
460-00-4	4-Bromofluorobenzene	104%		71-133%

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

(b) Suspected laboratory contaminant. Associated CCV and BS recovery outside control limits high.

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

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

# Report of Analysis

<b>Client Sample ID:</b> A2-33 (5')		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87682-14		<b>Date Received:</b> 07/30/21
<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	F0102152.D	1	08/05/21 16:13	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	9.19 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	66	ug/kg	
71-43-2	Benzene	ND	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)	ND	17	4.8	ug/kg	
75-15-0	Carbon Disulfide	ND	3.3	0.66	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.3	0.68	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	ND	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	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	0.76	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	ND	3.3	0.92	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	ND	3.3	0.66	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	0.66	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> A2-33 (5')	
<b>Lab Sample ID:</b> FA87682-14	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 82.0
<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	3.3	1.3	ug/kg	
108-87-2	Methylcyclohexane	ND	3.3	1.1	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	8.6	13	7.3	ug/kg	JB
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	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	ND	3.3	0.66	ug/kg	
75-69-4	Trichlorofluoromethane <sup>a</sup>	ND	3.3	1.3	ug/kg	
75-01-4	Vinyl Chloride	ND	3.3	0.66	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	107%		75-124%
17060-07-0	1,2-Dichloroethane-D4	109%		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 high, sample was ND.

(b) Suspected laboratory contaminant. Associated CCV and BS recovery outside control limits high.

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

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

## Report of Analysis

<b>Client Sample ID:</b> A2-34 (3')		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87682-15		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 92.9
<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	F0102153.D	1	08/05/21 16:38	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	10.1 g	5.0 ml
Run #2		

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	97.7	110	53	ug/kg	J
71-43-2	Benzene	ND	2.7	0.65	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.53	ug/kg	
75-25-2	Bromoform	ND	2.7	0.53	ug/kg	
78-93-3	2-Butanone (MEK)	16.4	13	3.9	ug/kg	
75-15-0	Carbon Disulfide	ND	2.7	0.53	ug/kg	
56-23-5	Carbon Tetrachloride	ND	2.7	0.54	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.53	ug/kg	
75-00-3	Chloroethane <sup>a</sup>	ND	2.7	1.1	ug/kg	
67-66-3	Chloroform	ND	2.7	0.71	ug/kg	
110-82-7	Cyclohexane	ND	2.7	0.67	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.53	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.7	1.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	2.7	0.53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	2.7	1.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.53	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.7	0.53	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.7	0.61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	0.95	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	0.53	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.7	0.53	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.7	0.74	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.7	0.53	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.53	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.53	ug/kg	
100-41-4	Ethylbenzene	ND	2.7	0.53	ug/kg	
76-13-1	Freon 113	ND	2.7	0.70	ug/kg	
591-78-6	2-Hexanone	ND	13	4.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.7	0.53	ug/kg	
79-20-9	Methyl Acetate	ND	13	4.8	ug/kg	
74-83-9	Methyl Bromide	ND	2.7	1.1	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>	A2-34 (3')	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87682-15	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	92.9
<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	2.7	1.1	ug/kg	
108-87-2	Methylcyclohexane	ND	2.7	0.91	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	ND	11	5.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	4.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	0.53	ug/kg	
100-42-5	Styrene	ND	2.7	0.53	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.53	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.7	0.68	ug/kg	
108-88-3	Toluene	ND	11	5.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2.7	0.53	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.53	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.53	ug/kg	
79-01-6	Trichloroethylene	ND	2.7	0.53	ug/kg	
75-69-4	Trichlorofluoromethane <sup>a</sup>	ND	2.7	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	2.7	0.53	ug/kg	
1330-20-7	Xylene (total)	ND	8.0	1.1	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	112%		72-135%
2037-26-5	Toluene-D8	98%		75-126%
460-00-4	4-Bromofluorobenzene	109%		71-133%

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

(b) Associated CCV and BS recovery outside 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> A2-34 (5')		
<b>Lab Sample ID:</b> FA87682-16		<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D		<b>Percent Solids:</b> 81.5
<b>Project:</b> Brenntag; Charleston, SC		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0102154.D	1	08/05/21 17:03	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	8.56 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	0.87	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	0.73	ug/kg	
108-90-7	Chlorobenzene	ND	3.6	0.72	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	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	0.82	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.6	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.6	0.72	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

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>	A2-34 (5')	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87682-16	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	81.5
<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	3.6	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	3.6	1.2	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	9.9	14	7.9	ug/kg	JB
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	107%		75-124%
17060-07-0	1,2-Dichloroethane-D4	112%		72-135%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

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

(b) Suspected laboratory contaminant. Associated CCV and BS recovery outside control limits high.

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

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

## Report of Analysis

<b>Client Sample ID:</b> A2-35 (3')		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87682-17		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.7
<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	F0102155.D	1	08/05/21 17:28	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	8.27 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	65	ug/kg	
71-43-2	Benzene	ND	3.2	0.79	ug/kg	
75-27-4	Bromodichloromethane	ND	3.2	0.65	ug/kg	
75-25-2	Bromoform	ND	3.2	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	4.7	ug/kg	
75-15-0	Carbon Disulfide	ND	3.2	0.65	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.2	0.66	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	0.65	ug/kg	
75-00-3	Chloroethane <sup>a</sup>	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	0.81	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	0.65	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	0.65	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.2	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.2	0.65	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.65	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	0.65	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.2	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	38.8	3.2	0.89	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	2.0	3.2	0.65	ug/kg	J
78-87-5	1,2-Dichloropropane	ND	3.2	0.65	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	0.65	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	0.65	ug/kg	
100-41-4	Ethylbenzene	ND	3.2	0.65	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	0.65	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>	A2-35 (3')	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87682-17	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	93.7
<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	1.4	3.2	1.1	ug/kg	J
75-09-2	Methylene Chloride <sup>b</sup>	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	0.65	ug/kg	
100-42-5	Styrene	ND	3.2	0.65	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	0.65	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.2	0.83	ug/kg	
108-88-3	Toluene	ND	13	6.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	0.65	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.2	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	0.65	ug/kg	
79-01-6	Trichloroethylene	23.2	3.2	0.65	ug/kg	
75-69-4	Trichlorofluoromethane <sup>a</sup>	ND	3.2	1.3	ug/kg	
75-01-4	Vinyl Chloride	ND	3.2	0.65	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	108%		75-124%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%
2037-26-5	Toluene-D8	104%		75-126%
460-00-4	4-Bromofluorobenzene	125%		71-133%

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

(b) Associated CCV and BS recovery outside 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> A2-35 (5')		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87682-18		<b>Date Received:</b> 07/30/21
<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	F0102156.D	1	08/05/21 17:52	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	7.88 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 <sup>a</sup>	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

RL = Reporting Limit

E = Indicates value exceeds calibration 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> A2-35 (5')	
<b>Lab Sample ID:</b> FA87682-18	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 07/30/21
<b>Method:</b> SW846 8260D	<b>Percent Solids:</b> 82.0
<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	3.9	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	3.9	1.3	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	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	107%		75-124%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	95%		71-133%

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

(b) Associated CCV and BS recovery outside 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> A2-36 (3')		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87682-19		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 94.2
<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	F0102157.D	1	08/05/21 18:16	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	8.57 g	5.0 ml
Run #2		

## VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	120	62	ug/kg	
71-43-2	Benzene	ND	3.1	0.76	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.62	ug/kg	
75-25-2	Bromoform	ND	3.1	0.62	ug/kg	
78-93-3	2-Butanone (MEK)	ND	15	4.5	ug/kg	
75-15-0	Carbon Disulfide	ND	3.1	0.62	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.1	0.63	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.62	ug/kg	
75-00-3	Chloroethane <sup>a</sup>	ND	3.1	1.2	ug/kg	
67-66-3	Chloroform	ND	3.1	0.82	ug/kg	
110-82-7	Cyclohexane	ND	3.1	0.77	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.62	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	3.1	0.62	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.1	1.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.1	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.1	0.62	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3.1	0.71	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.1	1.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.1	0.62	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.1	0.62	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.1	0.85	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.1	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.1	0.62	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.62	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.62	ug/kg	
100-41-4	Ethylbenzene	ND	3.1	0.62	ug/kg	
76-13-1	Freon 113	ND	3.1	0.82	ug/kg	
591-78-6	2-Hexanone	ND	15	4.6	ug/kg	
98-82-8	Isopropylbenzene	ND	3.1	0.62	ug/kg	
79-20-9	Methyl Acetate	ND	15	5.5	ug/kg	
74-83-9	Methyl Bromide	ND	3.1	1.2	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>	A2-36 (3')	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87682-19	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.2
<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	3.1	1.2	ug/kg	
108-87-2	Methylcyclohexane	ND	3.1	1.1	ug/kg	
75-09-2	Methylene Chloride <sup>b</sup>	ND	12	6.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	15	4.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3.1	0.62	ug/kg	
100-42-5	Styrene	ND	3.1	0.62	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.62	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.1	0.79	ug/kg	
108-88-3	Toluene	ND	12	6.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	0.62	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.62	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.62	ug/kg	
79-01-6	Trichloroethylene	ND	3.1	0.62	ug/kg	
75-69-4	Trichlorofluoromethane <sup>a</sup>	ND	3.1	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	3.1	0.62	ug/kg	
1330-20-7	Xylene (total)	ND	9.3	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		75-124%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%

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

(b) Associated CCV and BS recovery outside 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> A2-36 (5')		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87682-20		<b>Date Received:</b> 07/30/21
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.8
<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	F0102158.D	1	08/05/21 18:40	SP	n/a	n/a	VF3653
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	9.22 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	65	ug/kg	J
71-43-2	Benzene	ND	3.3	0.80	ug/kg	
75-27-4	Bromodichloromethane	ND	3.3	0.65	ug/kg	
75-25-2	Bromoform	ND	3.3	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	8.6	16	4.8	ug/kg	J
75-15-0	Carbon Disulfide	ND	3.3	0.65	ug/kg	
56-23-5	Carbon Tetrachloride	ND	3.3	0.67	ug/kg	
108-90-7	Chlorobenzene	ND	3.3	0.65	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	0.65	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	0.65	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	3.3	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3.3	0.65	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3.3	0.65	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	0.65	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.3	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.3	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.3	0.65	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.3	0.65	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.3	0.65	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.3	0.65	ug/kg	
100-41-4	Ethylbenzene	ND	3.3	0.65	ug/kg	
76-13-1	Freon 113	ND	3.3	0.86	ug/kg	
591-78-6	2-Hexanone	ND	16	4.9	ug/kg	
98-82-8	Isopropylbenzene	ND	3.3	0.65	ug/kg	
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>	A2-36 (5')	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87682-20	<b>Date Received:</b>	07/30/21
<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
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>b</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	0.65	ug/kg	
100-42-5	Styrene	ND	3.3	0.65	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	0.65	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.3	0.84	ug/kg	
108-88-3	Toluene	ND	13	6.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	0.65	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.3	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.3	0.65	ug/kg	
79-01-6	Trichloroethylene	ND	3.3	0.65	ug/kg	
75-69-4	Trichlorofluoromethane <sup>a</sup>	ND	3.3	1.3	ug/kg	
75-01-4	Vinyl Chloride	ND	3.3	0.65	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		75-124%
17060-07-0	1,2-Dichloroethane-D4	115%		72-135%
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	96%		71-133%

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

(b) Associated CCV and BS recovery outside 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> TRIP BLANK-01		
<b>Lab Sample ID:</b> FA87682-21		<b>Date Sampled:</b> 07/28/21
<b>Matrix:</b> AQ - Trip Blank Soil		<b>Date Received:</b> 07/30/21
<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>	I70292.D	1	08/11/21 13:30	SO	n/a	n/a	VI2279
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	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 <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>	TRIP BLANK-01	<b>Date Sampled:</b>	07/28/21
<b>Lab Sample ID:</b>	FA87682-21	<b>Date Received:</b>	07/30/21
<b>Matrix:</b>	AQ - Trip Blank Soil	<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	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		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.

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



<b>Send Results to:</b>	Contact & Company Name: <b>CHARLES WILSON ARCADIS</b>		Telephone: <b>706-828-4421</b>		Preservative: <b>F</b>															
	Address: <b>1450 Greene St Ste 220</b>		Fax:		Filtered (✓)															
	City State Zip: <b>Atlanta GA 30901</b>		E-mail Address: <b>Charles.Wilson@Arcadis.com</b>		# of Containers: <b>4</b>		Container Information: <b>9</b>													
Project Name/Location (City, State): <b>Brentley Charles Wilson</b>		Project #: <b>30099989 T=5</b>		<b>PARAMETER ANALYSIS &amp; METHOD</b>																
Sampler's Printed Name: <b>Charles Wilson</b>		Sampler's Signature: <i>CB</i>		<div style="border: 1px solid black; padding: 5px; display: inline-block; transform: rotate(-45deg); font-size: 12px;">                 8280 VOL SOILKIT MEQH             </div>																
Sample ID		Collection																		Type (✓)
	Date	Time	Comp	Grab																
1	A2-27 (3')	7/28/11	1330	X	SO	4														
2	A2-27 (5')	7/28/11	1335	X	SO	4														
3	A2-28 (3')	7/28/11	1405	X	SO	4														
4	A2-28 (5')	7/28/11	1410	X	SO	4														
5	A2-29 (3')	7/28/11	1505	X	SO	4														
6	A2-29 (5')	7/28/11	1510	X	SO	4														
7	A2-30 (3')	7/28/11	1600	X	SO	4														
8	A2-30 (5')	7/28/11	1605	X	SO	4														
9	A2-31 (3')	7/28/11	1635	X	SO	4														
10	A2-31 (5')	7/28/11	1640	X	SO	4														
11	A2-32 (3')	7/28/11	1725	X	SO	4														
12	A2-32 (5')	7/28/11	1730	X	SO	4														
13	A2-33 (3')	7/29/11	0825	X	SO	4														
14	A2-33 (5')	7/29/11	0830	X	SO	4														
Special Instructions/Comments: <span style="float: right;"><input type="checkbox"/> Special QA/QC Instructions(✓):</span>																				
<b>Laboratory Information and Receipt</b> Lab Name: <b>SGS</b> <input checked="" type="checkbox"/> Cooler packed with ice (✓) Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact Specify Turnaround Requirements: Shipping Tracking #:				<b>Relinquished By</b> Printed Name: <b>Charles Wilson</b> Signature: <i>CB</i> Firm: <b>ARCADIS</b> Date/Time: <b>7/29/11 1130</b>				<b>Received By</b> Printed Name: Signature: Firm/Courier: Date/Time:				<b>Relinquished By</b> Printed Name: Signature: Firm/Courier: Date/Time:				<b>Laboratory Received By</b> Printed Name: <b>Carlos G Delgado</b> Signature: <i>Carlos G Delgado</i> Firm: <b>SGS</b> Date/Time: <b>7/30/11 930</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: **MeQH**  
 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: **SOILKIT**  
 10. Other:

**Matrix Key:**  
 SO - Soil  
 W - Water  
 T - Tissue  
 SE - Sediment  
 SL - Sludge  
 A - Air  
 NL - NAPL/Oil  
 SW - Sample Wipe  
 Other:

**REMARKS**

INITIAL ASSESSMENT LABEL VERIFICATION *SP*

Send Results to:	Contact & Company Name: <i>CHARLES ANDERSON ARCADIS</i>		Telephone: <i>706-929-4421</i>		Preservative: <i>F</i>							<b>Keys</b> <b>Preservation Key:</b> A. H <sub>2</sub> SO <sub>4</sub> B. HCL C. HNO <sub>3</sub> D. NaOH E. None F. Other: <i>MeOH</i> G. Other: _____ H. Other: _____ <b>Matrix Key:</b> SO - Soil W - Water T - Tissue <b>Container Information Key:</b> 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Erlenmeyer 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: <i>SOL KIT</i> 10. Other: _____ <b>SE - Sediment</b> <b>SL - Sludge</b> <b>SW - Sample Wipe</b> <b>NL - NAPL/Oil</b> <b>SW - Sample Wipe</b> Other: _____
	Address: <i>1450 Greene St Ste 200</i>		Fax:		Filtered (✓):							
	City: <i>Atlanta</i> State: <i>GA</i> Zip: <i>30301</i>		E-mail Address: <i>Charles.Anderson@Arcadis.com</i>		# of Containers: <i>4</i>							
Project Name/Location (City, State): <i>Brenton Charleston S.C.</i>		Project #: <i>30099999 T&amp;S</i>		<b>PARAMETER ANALYSIS &amp; METHOD</b>								
Sampler's Printed Name: <i>Bryan Mayeux</i>		Sampler's Signature: <i>[Signature]</i>		<i>8260 VOC SOL KIT MeOH</i>								
Sample ID		Collection										Type (✓)
		Date	Time	Comp	Grab							
15	<i>A2-34 (3')</i>	<i>7/29/11</i>	<i>0855</i>	<i>X</i>	<i>SO</i>	<i>4</i>						
16	<i>A2-34 (5')</i>	<i>7/29/11</i>	<i>0900</i>	<i>X</i>	<i>SO</i>	<i>4</i>						
17	<i>A2-35 (3')</i>	<i>7/29/11</i>	<i>0940</i>	<i>X</i>	<i>SO</i>	<i>4</i>						
18	<i>A2-35 (5')</i>	<i>7/29/11</i>	<i>0945</i>	<i>X</i>	<i>SO</i>	<i>4</i>						
19	<i>A2-36 (3')</i>	<i>7/29/11</i>	<i>1020</i>	<i>X</i>	<i>SO</i>	<i>4</i>						
20	<i>A2-36 (5')</i>	<i>7/29/11</i>	<i>1025</i>	<i>X</i>	<i>SO</i>	<i>4</i>						
21	<i>TRIP BLANK -01</i>	<i>-</i>	<i>-</i>	<i>X</i>	<i>W</i>	<i>2</i>				<i>Trip Blank</i>		
INITIAL ASSESSMENT _____ SHEL VERIFICATION _____												
Special Instructions/Comments:					<input type="checkbox"/> Special QA/QC Instructions (✓):							

20730826 Co/CAR Form 08.27.2015 *48-18* Distribution: **WHITE** - Laboratory returns with results **YELLOW** - Lab copy **PINK** - Retained by Arcadis

## SGS Sample Receipt Summary

Job Number: FA87682

Client: ARCADIS

Project: 30088889

Date / Time Received: 7/30/2021 9:30:00 AM

Delivery Method: FED EX

Airbill #s:

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.8);

Cooler Temps (Corrected) °C: Cooler 1: (5.0);

**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 FROZEN@ 7/30/2021 1130

SM001  
Rev. Date 05/24/17

Technician: CARLOSD

Date: 7/30/2021 9:30:00 AM

Reviewer:

Date:

FA87682: Chain of Custody

Page 3 of 3

4.1  
4

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: FA87729

Sampling Dates: 07/29/21 - 07/30/21

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: **73**



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

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Test results relate only to samples analyzed.

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## Sample Summary

ARCADIS Geraghty & Miller

**Job No:** FA87729

Brenntag; Charleston, SC  
 Project No: SC000204.0011.00001

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

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

FA87729-1	07/29/21	17:30	CL	07/31/21	AQ	Ground Water	A2-27 (7-10)
FA87729-2	07/29/21	17:50	CL	07/31/21	AQ	Ground Water	A2-27 (17-20)
FA87729-3	07/30/21	08:55	CL	07/31/21	AQ	Ground Water	A2-28 (7-10)
FA87729-4	07/30/21	09:10	CL	07/31/21	AQ	Ground Water	A2-28 (17-20)
FA87729-5	07/30/21	09:40	CL	07/31/21	AQ	Ground Water	A2-29 (7-10)
FA87729-6	07/30/21	10:00	CL	07/31/21	AQ	Ground Water	A2-29 (17-20)
FA87729-7	07/30/21	10:20	CL	07/31/21	AQ	Ground Water	A2-30 (7-10)
FA87729-8	07/30/21	10:40	CL	07/31/21	AQ	Ground Water	A2-30 (17-20)
FA87729-9	07/30/21	11:05	CL	07/31/21	AQ	Ground Water	A2-31 (7-10)
FA87729-10	07/30/21	11:25	CL	07/31/21	AQ	Ground Water	A2-31 (17-20)
FA87729-11	07/29/21	15:00	CL	07/31/21	AQ	Ground Water	A2-32 (7-10)
FA87729-12	07/29/21	15:20	CL	07/31/21	AQ	Ground Water	A2-32 (17-20)



## Sample Summary

(continued)

ARCADIS Geraghty & Miller

**Job No:** FA87729

Brenntag; Charleston, SC

Project No: SC000204.0011.00001

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA87729-13	07/29/21	15:45 CL	07/31/21	AQ	Ground Water	A2-33 (7-10)
FA87729-14	07/29/21	16:00 CL	07/31/21	AQ	Ground Water	A2-33 (17-20)
FA87729-15	07/29/21	16:20 CL	07/31/21	AQ	Ground Water	A2-34 (7-10)
FA87729-16	07/29/21	16:40 CL	07/31/21	AQ	Ground Water	A2-34 (17-20)
FA87729-17	07/29/21	14:15 CL	07/31/21	AQ	Ground Water	A2-35 (7-10)
FA87729-18	07/29/21	14:40 CL	07/31/21	AQ	Ground Water	A2-35 (17-20)
FA87729-19	07/29/21	13:55 CL	07/31/21	AQ	Ground Water	A2-36 (7-10)
FA87729-20	07/29/21	13:55 CL	07/31/21	AQ	Ground Water	A2-36 (17-20)
FA87729-21	07/29/21	00:00 CL	07/31/21	AQ	Trip Blank Water	TRIP BLANK

## Summary of Hits

**Job Number:** FA87729  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 07/29/21 thru 07/30/21

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

**FA87729-1**      **A2-27 (7-10)**

No hits reported in this sample.

**FA87729-2**      **A2-27 (17-20)**

No hits reported in this sample.

**FA87729-3**      **A2-28 (7-10)**

cis-1,2-Dichloroethylene <sup>a</sup>	3970	500	140	ug/l	SW846 8260D
Trichloroethylene <sup>a</sup>	27200	500	170	ug/l	SW846 8260D

**FA87729-4**      **A2-28 (17-20)**

cis-1,2-Dichloroethylene <sup>a</sup>	540 J	1000	280	ug/l	SW846 8260D
Trichloroethylene <sup>a</sup>	63200	1000	350	ug/l	SW846 8260D

**FA87729-5**      **A2-29 (7-10)**

No hits reported in this sample.

**FA87729-6**      **A2-29 (17-20)**

1,1-Dichloroethylene	4.0	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene	23.7	1.0	0.28	ug/l	SW846 8260D
Trichloroethylene	55.9	1.0	0.35	ug/l	SW846 8260D

**FA87729-7**      **A2-30 (7-10)**

cis-1,2-Dichloroethylene	13.6	1.0	0.28	ug/l	SW846 8260D
trans-1,2-Dichloroethylene	1.4	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene	1.6	1.0	0.35	ug/l	SW846 8260D
Vinyl Chloride	0.58 J	1.0	0.41	ug/l	SW846 8260D

**FA87729-8**      **A2-30 (17-20)**

Trichloroethylene	0.58 J	1.0	0.35	ug/l	SW846 8260D
-------------------	--------	-----	------	------	-------------

**FA87729-9**      **A2-31 (7-10)**

No hits reported in this sample.



## Summary of Hits

**Job Number:** FA87729  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 07/29/21 thru 07/30/21

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

**FA87729-10**      **A2-31 (17-20)**

1,1-Dichloroethylene	1.8	1.0	0.32	ug/l	SW846 8260D
cis-1,2-Dichloroethylene <sup>a</sup>	142	20	5.5	ug/l	SW846 8260D
trans-1,2-Dichloroethylene	1.9	1.0	0.22	ug/l	SW846 8260D
Trichloroethylene <sup>a</sup>	431	20	6.9	ug/l	SW846 8260D
Vinyl Chloride	3.5	1.0	0.41	ug/l	SW846 8260D

**FA87729-11**      **A2-32 (7-10)**

No hits reported in this sample.

**FA87729-12**      **A2-32 (17-20)**

No hits reported in this sample.

**FA87729-13**      **A2-33 (7-10)**

No hits reported in this sample.

**FA87729-14**      **A2-33 (17-20)**

No hits reported in this sample.

**FA87729-15**      **A2-34 (7-10)**

No hits reported in this sample.

**FA87729-16**      **A2-34 (17-20)**

No hits reported in this sample.

**FA87729-17**      **A2-35 (7-10)**

Trichloroethylene	0.68 J	1.0	0.35	ug/l	SW846 8260D
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**FA87729-18**      **A2-35 (17-20)**

No hits reported in this sample.

**FA87729-19**      **A2-36 (7-10)**

Trichloroethylene	0.52 J	1.0	0.35	ug/l	SW846 8260D
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## Summary of Hits

**Job Number:** FA87729  
**Account:** ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC  
**Collected:** 07/29/21 thru 07/30/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**FA87729-20**    **A2-36 (17-20)**

No hits reported in this sample.

**FA87729-21**    **TRIP BLANK**

No hits reported in this sample.

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

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> A2-27 (7-10)		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87729-1		<b>Date Received:</b> 07/31/21
<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	P80645.D	1	08/12/21 14:29	SO	n/a	n/a	VP3283
Run #2 <sup>a</sup>	P80676.D	1	08/13/21 15:10	SO	n/a	n/a	VP3284

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	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane <sup>b</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>b</sup>	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 <sup>b</sup>	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>c</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 <sup>b</sup>	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>d</sup>	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> A2-27 (7-10)	
<b>Lab Sample ID:</b> FA87729-1	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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 <sup>e</sup>	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>f</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	96%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	101%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	102%	100%	83-118%

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

(b) Associated BS recovery outside control limits low.

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

(d) Associated CCV outside of control limits low.

(e) Result is from Run# 2

(f) Associated Initial Calibration outside control limits (%RSD > 15%).

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration 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> A2-27 (17-20)		<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87729-2		<b>Date Received:</b> 07/31/21
<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>d</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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

- (a) Associated BS recovery outside control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.
- (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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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> A2-28 (7-10)	
<b>Lab Sample ID:</b> FA87729-3	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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>	P80687.D	500	08/13/21 19:35	SO	n/a	n/a	VP3284
Run #2	P80647.D	5000	08/12/21 15:17	SO	n/a	n/a	VP3283

	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 <sup>b</sup>	130000	50000	ug/l	
71-43-2	Benzene	ND <sup>b</sup>	5000	1600	ug/l	
75-27-4	Bromodichloromethane <sup>c</sup>	ND <sup>b</sup>	5000	1200	ug/l	
75-25-2	Bromoform <sup>c</sup>	ND <sup>b</sup>	5000	2000	ug/l	
78-93-3	2-Butanone (MEK)	ND <sup>b</sup>	25000	10000	ug/l	
75-15-0	Carbon Disulfide <sup>c</sup>	ND <sup>b</sup>	10000	2700	ug/l	
56-23-5	Carbon Tetrachloride	ND <sup>b</sup>	5000	1800	ug/l	
108-90-7	Chlorobenzene	ND <sup>b</sup>	5000	1000	ug/l	
75-00-3	Chloroethane <sup>d</sup>	ND <sup>b</sup>	10000	3300	ug/l	
67-66-3	Chloroform	ND <sup>b</sup>	5000	1500	ug/l	
110-82-7	Cyclohexane	ND <sup>b</sup>	5000	2000	ug/l	
124-48-1	Dibromochloromethane <sup>c</sup>	ND <sup>b</sup>	5000	1400	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND <sup>b</sup>	25000	5200	ug/l	
106-93-4	1,2-Dibromoethane	ND <sup>b</sup>	10000	1400	ug/l	
75-71-8	Dichlorodifluoromethane	ND <sup>b</sup>	10000	2500	ug/l	
95-50-1	1,2-Dichlorobenzene	ND <sup>b</sup>	5000	1600	ug/l	
541-73-1	1,3-Dichlorobenzene	ND <sup>b</sup>	5000	1100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND <sup>b</sup>	5000	1300	ug/l	
75-34-3	1,1-Dichloroethane	ND <sup>b</sup>	5000	1700	ug/l	
107-06-2	1,2-Dichloroethane	ND <sup>b</sup>	5000	1600	ug/l	
75-35-4	1,1-Dichloroethylene	ND <sup>b</sup>	5000	1600	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3970	500	140	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND <sup>b</sup>	5000	1100	ug/l	
78-87-5	1,2-Dichloropropane	ND <sup>b</sup>	5000	2100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND <sup>b</sup>	5000	1500	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND <sup>b</sup>	5000	1100	ug/l	
100-41-4	Ethylbenzene	ND <sup>b</sup>	5000	1800	ug/l	
76-13-1	Freon 113	ND <sup>b</sup>	5000	2400	ug/l	
591-78-6	2-Hexanone	ND <sup>b</sup>	50000	10000	ug/l	
98-82-8	Isopropylbenzene	ND <sup>b</sup>	5000	1100	ug/l	
79-20-9	Methyl Acetate	ND <sup>b</sup>	100000	25000	ug/l	
74-83-9	Methyl Bromide <sup>e</sup>	ND <sup>b</sup>	25000	10000	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> A2-28 (7-10)		<b>Date Sampled:</b> 07/30/21
<b>Lab Sample ID:</b> FA87729-3		<b>Date Received:</b> 07/31/21
<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 <sup>b</sup>	10000	2500	ug/l	
108-87-2	Methylcyclohexane	ND <sup>b</sup>	5000	2200	ug/l	
75-09-2	Methylene Chloride	ND <sup>b</sup>	25000	10000	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND <sup>b</sup>	25000	5000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND <sup>b</sup>	5000	1100	ug/l	
100-42-5	Styrene	ND <sup>b</sup>	5000	1100	ug/l	
79-34-5	1,1,1,2-Tetrachloroethane	ND <sup>b</sup>	5000	1500	ug/l	
127-18-4	Tetrachloroethylene	ND <sup>b</sup>	5000	1100	ug/l	
108-88-3	Toluene	ND <sup>b</sup>	5000	1500	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND <sup>b</sup>	10000	2500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND <sup>b</sup>	5000	1200	ug/l	
79-00-5	1,1,2-Trichloroethane	ND <sup>b</sup>	5000	2300	ug/l	
79-01-6	Trichloroethylene	27200	500	170	ug/l	
75-69-4	Trichlorofluoromethane <sup>f</sup>	ND <sup>b</sup>	10000	2500	ug/l	
75-01-4	Vinyl Chloride	ND <sup>b</sup>	5000	2000	ug/l	
1330-20-7	Xylene (total)	ND <sup>b</sup>	15000	3600	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	79-125%
2037-26-5	Toluene-D8	103%	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	83-118%

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

(b) Result is from Run# 2

(c) Associated BS recovery outside control limits low.

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

(e) Associated CCV outside of control limits low.

(f) Associated Initial Calibration outside control limits (%RSD > 15%).

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration 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> A2-28 (17-20)		
<b>Lab Sample ID:</b> FA87729-4		<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 07/31/21
<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>	P80688.D	1000	08/13/21 19:58	SO	n/a	n/a	VP3284
Run #2	P80648.D	2000	08/12/21 15:41	SO	n/a	n/a	VP3283

	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 <sup>b</sup>	50000	20000	ug/l	
71-43-2	Benzene	ND <sup>b</sup>	2000	620	ug/l	
75-27-4	Bromodichloromethane <sup>c</sup>	ND <sup>b</sup>	2000	480	ug/l	
75-25-2	Bromoform <sup>c</sup>	ND <sup>b</sup>	2000	810	ug/l	
78-93-3	2-Butanone (MEK)	ND <sup>b</sup>	10000	4000	ug/l	
75-15-0	Carbon Disulfide <sup>c</sup>	ND <sup>b</sup>	4000	1100	ug/l	
56-23-5	Carbon Tetrachloride	ND <sup>b</sup>	2000	710	ug/l	
108-90-7	Chlorobenzene	ND <sup>b</sup>	2000	400	ug/l	
75-00-3	Chloroethane <sup>d</sup>	ND <sup>b</sup>	4000	1300	ug/l	
67-66-3	Chloroform	ND <sup>b</sup>	2000	600	ug/l	
110-82-7	Cyclohexane	ND <sup>b</sup>	2000	780	ug/l	
124-48-1	Dibromochloromethane <sup>c</sup>	ND <sup>b</sup>	2000	550	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND <sup>b</sup>	10000	2100	ug/l	
106-93-4	1,2-Dibromoethane	ND <sup>b</sup>	4000	550	ug/l	
75-71-8	Dichlorodifluoromethane	ND <sup>b</sup>	4000	1000	ug/l	
95-50-1	1,2-Dichlorobenzene	ND <sup>b</sup>	2000	650	ug/l	
541-73-1	1,3-Dichlorobenzene	ND <sup>b</sup>	2000	430	ug/l	
106-46-7	1,4-Dichlorobenzene	ND <sup>b</sup>	2000	510	ug/l	
75-34-3	1,1-Dichloroethane	ND <sup>b</sup>	2000	680	ug/l	
107-06-2	1,2-Dichloroethane	ND <sup>b</sup>	2000	620	ug/l	
75-35-4	1,1-Dichloroethylene	ND <sup>b</sup>	2000	640	ug/l	
156-59-2	cis-1,2-Dichloroethylene	540	1000	280	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND <sup>b</sup>	2000	440	ug/l	
78-87-5	1,2-Dichloropropane	ND <sup>b</sup>	2000	850	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND <sup>b</sup>	2000	580	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND <sup>b</sup>	2000	430	ug/l	
100-41-4	Ethylbenzene	ND <sup>b</sup>	2000	710	ug/l	
76-13-1	Freon 113	ND <sup>b</sup>	2000	960	ug/l	
591-78-6	2-Hexanone	ND <sup>b</sup>	20000	4000	ug/l	
98-82-8	Isopropylbenzene	ND <sup>b</sup>	2000	440	ug/l	
79-20-9	Methyl Acetate	ND <sup>b</sup>	40000	10000	ug/l	
74-83-9	Methyl Bromide <sup>e</sup>	ND <sup>b</sup>	10000	4000	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> A2-28 (17-20)	
<b>Lab Sample ID:</b> FA87729-4	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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 <sup>b</sup>	4000	1000	ug/l	
108-87-2	Methylcyclohexane	ND <sup>b</sup>	2000	870	ug/l	
75-09-2	Methylene Chloride	ND <sup>b</sup>	10000	4000	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND <sup>b</sup>	10000	2000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND <sup>b</sup>	2000	460	ug/l	
100-42-5	Styrene	ND <sup>b</sup>	2000	440	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND <sup>b</sup>	2000	600	ug/l	
127-18-4	Tetrachloroethylene	ND <sup>b</sup>	2000	430	ug/l	
108-88-3	Toluene	ND <sup>b</sup>	2000	600	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND <sup>b</sup>	4000	1000	ug/l	
71-55-6	1,1,1-Trichloroethane	ND <sup>b</sup>	2000	500	ug/l	
79-00-5	1,1,2-Trichloroethane	ND <sup>b</sup>	2000	930	ug/l	
79-01-6	Trichloroethylene	63200	1000	350	ug/l	
75-69-4	Trichlorofluoromethane <sup>f</sup>	ND <sup>b</sup>	4000	1000	ug/l	
75-01-4	Vinyl Chloride	ND <sup>b</sup>	2000	820	ug/l	
1330-20-7	Xylene (total)	ND <sup>b</sup>	6000	1400	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	79-125%
2037-26-5	Toluene-D8	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	83-118%

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

(b) Result is from Run# 2

(c) Associated BS recovery outside control limits low.

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

(e) Associated CCV outside of control limits low.

(f) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-29 (7-10)	
<b>Lab Sample ID:</b> FA87729-5	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80649.D	1	08/12/21 16:05	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</sup>	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> A2-29 (7-10)	
<b>Lab Sample ID:</b> FA87729-5	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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 <sup>d</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	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-29 (17-20)	
<b>Lab Sample ID:</b> FA87729-6	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80650.D	1	08/12/21 16:29	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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	4.0	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	23.7	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>c</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> A2-29 (17-20)	
<b>Lab Sample ID:</b> FA87729-6	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	55.9	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane <sup>d</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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-30 (7-10)	
<b>Lab Sample ID:</b> FA87729-7	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80651.D	1	08/12/21 16:54	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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	13.6	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.4	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>c</sup>	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> A2-30 (7-10)	
<b>Lab Sample ID:</b> FA87729-7	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	1.6	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane <sup>d</sup>	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.58	1.0	0.41	ug/l	J
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	96%		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	100%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-30 (17-20)	
<b>Lab Sample ID:</b> FA87729-8	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	5E30097.D	1	08/13/21 17:09	CV	n/a	n/a	V5E1378
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 <sup>b</sup>	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 <sup>b</sup>	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  
 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> A2-30 (17-20)	
<b>Lab Sample ID:</b> FA87729-8	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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 <sup>b</sup>	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	0.58	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	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated CCV outside of control limits low.

(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> A2-31 (7-10)	<b>Date Sampled:</b> 07/30/21
<b>Lab Sample ID:</b> FA87729-9	<b>Date Received:</b> 07/31/21
<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	5E30098.D	1	08/13/21 17:32	CV	n/a	n/a	V5E1378
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 <sup>b</sup>	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 <sup>b</sup>	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

RL = Reporting Limit

E = Indicates value exceeds calibration 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> A2-31 (7-10)	
<b>Lab Sample ID:</b> FA87729-9	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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 <sup>b</sup>	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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated CCV outside of control limits low.

(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> A2-31 (17-20)	
<b>Lab Sample ID:</b> FA87729-10	<b>Date Sampled:</b> 07/30/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	5E30099.D	1	08/13/21 17:55	CV	n/a	n/a	V5E1378
Run #2 <sup>a</sup>	5E30176.D	20	08/17/21 15:30	LV	n/a	n/a	V5E1381

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 <sup>c</sup>	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 <sup>c</sup>	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	1.8	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	142 <sup>d</sup>	20	5.5	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.9	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

RL = Reporting Limit

E = Indicates value exceeds calibration 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>	A2-31 (17-20)	<b>Date Sampled:</b>	07/30/21
<b>Lab Sample ID:</b>	FA87729-10	<b>Date Received:</b>	07/31/21
<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 <sup>c</sup>	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	431 <sup>d</sup>	20	6.9	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	3.5	1.0	0.41	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	113%	79-125%
2037-26-5	Toluene-D8	99%	105%	85-112%
460-00-4	4-Bromofluorobenzene	109%	112%	83-118%

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

(b) Associated CCV outside of control limits low.

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

(d) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> A2-32 (7-10)	
<b>Lab Sample ID:</b> FA87729-11	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80652.D	1	08/12/21 17:18	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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>	A2-32 (7-10)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-11	<b>Date Received:</b>	07/31/21
<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>d</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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

- (a) Associated BS recovery outside control limits low.  
(b) Associated CCV outside of control limits high, sample was ND.  
(c) Associated CCV outside of control limits low.  
(d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-32 (17-20)	
<b>Lab Sample ID:</b> FA87729-12	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80653.D	1	08/12/21 17:42	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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>	A2-32 (17-20)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-12	<b>Date Received:</b>	07/31/21
<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>d</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	96%		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%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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

E = Indicates value exceeds calibration range

## Report of Analysis

<b>Client Sample ID:</b> A2-33 (7-10)	
<b>Lab Sample ID:</b> FA87729-13	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80654.D	1	08/12/21 18:06	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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>	A2-33 (7-10)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-13	<b>Date Received:</b>	07/31/21
<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>d</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	95%		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	99%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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

3.14  
3

<b>Client Sample ID:</b>	A2-33 (17-20)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-14	<b>Date Received:</b>	07/31/21
<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	P80655.D	1	08/12/21 18:30	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</sup>	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>	A2-33 (17-20)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-14	<b>Date Received:</b>	07/31/21
<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>d</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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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

E = Indicates value exceeds calibration range

# Report of Analysis

<b>Client Sample ID:</b> A2-34 (7-10)	
<b>Lab Sample ID:</b> FA87729-15	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80656.D	1	08/12/21 18:54	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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>	A2-34 (7-10)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-15	<b>Date Received:</b>	07/31/21
<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>d</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	94%		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	100%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-34 (17-20)	
<b>Lab Sample ID:</b> FA87729-16	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80657.D	1	08/12/21 19:18	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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> A2-34 (17-20)	
<b>Lab Sample ID:</b> FA87729-16	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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 <sup>d</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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

- (a) Associated BS recovery outside control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.
- (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-35 (7-10)	
<b>Lab Sample ID:</b> FA87729-17	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80658.D	1	08/12/21 19:42	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</sup>	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>	A2-35 (7-10)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-17	<b>Date Received:</b>	07/31/21
<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	0.68	1.0	0.35	ug/l	J
75-69-4	Trichlorofluoromethane <sup>d</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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-35 (17-20)	
<b>Lab Sample ID:</b> FA87729-18	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80659.D	1	08/12/21 20:06	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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>	A2-35 (17-20)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-18	<b>Date Received:</b>	07/31/21
<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>d</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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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

E = Indicates value exceeds calibration range

# Report of Analysis

<b>Client Sample ID:</b> A2-36 (7-10)	
<b>Lab Sample ID:</b> FA87729-19	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	P80660.D	1	08/12/21 20:30	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</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> A2-36 (7-10)	
<b>Lab Sample ID:</b> FA87729-19	<b>Date Sampled:</b> 07/29/21
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 07/31/21
<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	0.52	1.0	0.35	ug/l	J
75-69-4	Trichlorofluoromethane <sup>d</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	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

- (a) Associated BS recovery outside control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.
- (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> A2-36 (17-20)	<b>Date Sampled:</b> 07/29/21
<b>Lab Sample ID:</b> FA87729-20	<b>Date Received:</b> 07/31/21
<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	P80661.D	1	08/12/21 20:54	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</sup>	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>	A2-36 (17-20)	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-20	<b>Date Received:</b>	07/31/21
<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>d</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	95%		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	100%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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> 07/29/21
<b>Lab Sample ID:</b> FA87729-21		<b>Date Received:</b> 07/31/21
<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 #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80642.D	1	08/12/21 13:17	SO	n/a	n/a	VP3283
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 <sup>a</sup>	ND	1.0	0.24	ug/l	
75-25-2	Bromoform <sup>a</sup>	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 <sup>a</sup>	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>b</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 <sup>a</sup>	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>c</sup>	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>	TRIP BLANK	<b>Date Sampled:</b>	07/29/21
<b>Lab Sample ID:</b>	FA87729-21	<b>Date Received:</b>	07/31/21
<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	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>d</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	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

- (a) Associated BS recovery outside control limits low.  
 (b) Associated CCV outside of control limits high, sample was ND.  
 (c) Associated CCV outside of control limits low.  
 (d) Associated Initial Calibration outside control limits (%RSD > 15%).

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

Send Results to:	Contact & Company Name: <b>ARCADIS</b>	Telephone: <b>706-929-4421</b>	Preservative: <b>B</b>
	Address: <b>1450 Green St SE</b>	Fax: _____	Filtered (✓): _____
	City: <b>AUGUSTA GA</b>	State: <b>GA</b>	# of Containers: <b>3</b>
	Zip: <b>30901</b>	E-mail Address: <b>Charles.Lewis@Arcadis.com</b>	Container Information: <b>1</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	PARAMETER ANALYSIS & METHOD	REMARKS
	Date	Time	Comp	Grab			
1 A2-27 (7-10)	7/29/11	1730	X	W	X	8200 VOC 40 ml vial PEL 400	
2 A2-27 (17-20)	7/29/11	1750	X	W	X		
3 A2-28 (7-10)	7/30/11	0855	X	W	X		
4 A2-28 (17-20)	7/30/11	0910	X	W	X		
5 A2-29 (7-10)	7/30/11	0940	X	W	X		
6 A2-29 (17-20)	7/30/11	1000	X	W	X		
7 A2-30 (7-10)	7/30/11	1020	X	W	X		
8 A2-30 (17-20)	7/30/11	1040	X	W	X		
9 A2-31 (7-10)	7/30/11	1105	X	W	X		
10 A2-31 (17-20)	7/30/11	1125	X	W	X		
11 A2-32 (7-10)	7/29/11	1500	X	W	X		
12 A2-32 (17-20)	7/29/11	1520	X	W	X		
13 A2-33 (7-10)	7/29/11	1545	X	W	X		
14 A2-33 (17-20)	7/29/11	1600	X	W	X		

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions (✓): \_\_\_\_\_

INITIAL ASSESSMENT  
LABEL VERIFICATION \_\_\_\_\_

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: <b>SGS</b>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <b>Charles Lewis</b> Signature: <i>CS Lewis</i>	Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	Printed Name: <b>Carlos G Delgado</b> Signature: <i>Carlos G Delgado</i>
Specify Turnaround Requirements:	Sample Receipt: _____	Firm: <b>ARCADIS</b>	Firm/Courier: _____	Firm/Courier: _____	Firm: <b>SGS</b>
Shipping Tracking #:	Condition/Cooler Temp: <b>1.2/10</b>	Date/Time: <b>7/30/11 1300</b>	Date/Time: _____	Date/Time: _____	Date/Time: <b>7/31/11 1130</b>

20730826 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: <b>CHARLES Lawson Arcadis</b>	Telephone: <b>706-928-4421</b>	Preservative: <b>B</b>							<b>Keys</b> <b>Preservation Key:</b> 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: _____ <b>Matrix Key:</b> SO - Soil W - Water T - Tissue SE - Sediment SL - Sludge A - Air NL - NAPL/Oil SW - Sample Wipe Other: _____
	Address: <b>1450 Greene St 56220</b>	Fax: _____	# of Containers: <b>3</b>							
City: <b>Augusta</b>	State: <b>GA</b>	Zip: <b>30901</b>	<b>PARAMETER ANALYSIS &amp; METHOD</b>							
E-mail Address: <b>Charles.Lawson@Arcadis.com</b>	Project #: <b>30099999 T-5</b>	Sampler's Printed Name: <b>Charles Lawson</b>								
Project Name/Location (City, State): <b>Brentley Chamberly, SC</b>	Sampler's Signature: <b>CB Jam</b>									
Sample ID	Collection		Type (✓)		Matrix	REMARKS				
	Date	Time	Comp	Grab						
15 A2-34 (7-10)	7/29/21	1620		X	W					
16 A2-34 (17-20)	7/29/21	1640		X	W					
17 A2-35 (7-10)	7/29/21	1415		X	W					
18 A2-35 (17-20)	7/29/21	1440		X	W					
19 A2-36 (7-10)	7/29/21	1335		X	W					
20 A2-36 (17-20)	7/29/21	1355		X	W					
21 TRIP BLANK -01	-	-		-	W					

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions(✓): \_\_\_\_\_

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: <b>SGS</b>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <b>Charles Lawson</b> Signature: <i>Charles Lawson</i>	Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	Printed Name: <b>Carlos G. Delgado</b> Signature: <i>Carlos G. Delgado</i>
Specify Turnaround Requirements:	Sample Receipt:	Firm: <b>Arcadis</b>	Firm/Courier: _____	Firm/Courier: _____	Firm: <b>SGS</b>
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: <b>7/30/21 1300</b>	Date/Time: _____	Date/Time: _____	Date/Time: <b>7-31-21 1130</b>

20730826 CoC AR Form 08.27.2016      Distribution:      WHITE - Laboratory returns with results      YELLOW - Lab copy      PINK - Retained by Arcadis



## SGS Sample Receipt Summary

Job Number: FA87729

Client: ARCADIS

Project: 30088889 T=5

Date / Time Received: 7/31/2021 11:30:00 AM

Delivery Method: FED EX

Airbill #'s: 506145085385

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.4);

**Cooler Information**

Y or N

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

**Trip Blank Information**

Y or N

N/A

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

**Sample Information**

Y or N

N/A

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

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #'s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) \_\_\_\_\_  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments SAMPLES #11, #12, #14, #20 #21 HAVE ALL VIALS CONTAINING HEADSPACE.

IDS FOR THESE SAMPLES:  
 SAMPLE #11 ID: "A2-32 (7-10)"  
 SAMPLE #12 ID: "A2-32 (17-20)"  
 SAMPLE #14 ID: "A2-33 (17-20)"  
 SAMPLE #20 ID: "A2-32 (17-20)"

SM001  
 Rev. Date 05/24/17

Technician: CARLOSD

Date: 7/31/2021 11:30:00 A

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

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

FA87729: 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:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3283-MB	P80641.D	1	08/12/21	SO	n/a	n/a	VP3283

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-2, FA87729-3, FA87729-4, FA87729-5, FA87729-6, FA87729-7, FA87729-11, FA87729-12, FA87729-13, FA87729-14, FA87729-15, FA87729-16, FA87729-17, FA87729-18, FA87729-19, FA87729-20, FA87729-21

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
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:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3283-MB	P80641.D	1	08/12/21	SO	n/a	n/a	VP3283

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-2, FA87729-3, FA87729-4, FA87729-5, FA87729-6, FA87729-7, FA87729-11, FA87729-12, FA87729-13, FA87729-14, FA87729-15, FA87729-16, FA87729-17, FA87729-18, FA87729-19, FA87729-20, FA87729-21

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	103% 79-125%
2037-26-5	Toluene-D8	101% 85-112%
460-00-4	4-Bromofluorobenzene	101% 83-118%

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## Method Blank Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1378-MB	5E30083.D	1	08/13/21	CV	n/a	n/a	V5E1378

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-8, FA87729-9, FA87729-10

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:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1378-MB	5E30083.D	1	08/13/21	CV	n/a	n/a	V5E1378

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-8, FA87729-9, FA87729-10

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	95%	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	106%	83-118%

## Method Blank Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3284-MB	P80670.D	1	08/13/21	SO	n/a	n/a	VP3284

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-3, FA87729-4

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

## Method Blank Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1381-MB	5E30167.D	1	08/17/21	LV	n/a	n/a	V5E1381

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-10

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	109%	83-118%



# Blank Spike Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3283-BS	P80639.D	1	08/12/21	SO	n/a	n/a	VP3283

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-2, FA87729-3, FA87729-4, FA87729-5, FA87729-6, FA87729-7, FA87729-11, FA87729-12, FA87729-13, FA87729-14, FA87729-15, FA87729-16, FA87729-17, FA87729-18, FA87729-19, FA87729-20, FA87729-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	105	84	50-147
71-43-2	Benzene	25	23.2	93	81-122
75-27-4	Bromodichloromethane	25	17.7	71*	79-123
75-25-2	Bromoform	25	15.7	63*	66-123
78-93-3	2-Butanone (MEK)	125	104	83	56-143
75-15-0	Carbon Disulfide	25	15.3	61*	66-148
56-23-5	Carbon Tetrachloride	25	19.9	80	76-136
108-90-7	Chlorobenzene	25	22.1	88	82-124
75-00-3	Chloroethane	25	27.7	111	62-144
67-66-3	Chloroform	25	21.0	84	80-124
110-82-7	Cyclohexane	25	19.0	76	73-138
124-48-1	Dibromochloromethane	25	17.1	68*	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	17.4	70	64-123
106-93-4	1,2-Dibromoethane	25	20.2	81	75-120
75-71-8	Dichlorodifluoromethane	25	17.1	68	42-167
95-50-1	1,2-Dichlorobenzene	25	22.1	88	82-124
541-73-1	1,3-Dichlorobenzene	25	22.3	89	84-125
106-46-7	1,4-Dichlorobenzene	25	22.3	89	78-120
75-34-3	1,1-Dichloroethane	25	23.2	93	81-122
107-06-2	1,2-Dichloroethane	25	21.6	86	75-125
75-35-4	1,1-Dichloroethylene	25	26.0	104	78-137
156-59-2	cis-1,2-Dichloroethylene	25	21.5	86	78-120
156-60-5	trans-1,2-Dichloroethylene	25	22.3	89	76-127
78-87-5	1,2-Dichloropropane	25	21.3	85	76-124
10061-01-5	cis-1,3-Dichloropropene	25	18.9	76	75-118
10061-02-6	trans-1,3-Dichloropropene	25	20.5	82	80-120
100-41-4	Ethylbenzene	25	21.7	87	81-121
76-13-1	Freon 113	25	21.1	84	72-134
591-78-6	2-Hexanone	125	118	94	61-129
98-82-8	Isopropylbenzene	25	21.8	87	83-132
79-20-9	Methyl Acetate	125	106	85	65-126
74-83-9	Methyl Bromide	25	16.7	67	59-143
74-87-3	Methyl Chloride	25	18.5	74	50-159
108-87-2	Methylcyclohexane	25	20.4	82	76-129
75-09-2	Methylene Chloride	25	18.1	72	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	108	86	66-122

\* = Outside of Control Limits.

5.2.1  
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# Blank Spike Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3283-BS	P80639.D	1	08/12/21	SO	n/a	n/a	VP3283

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-2, FA87729-3, FA87729-4, FA87729-5, FA87729-6, FA87729-7, FA87729-11, FA87729-12, FA87729-13, FA87729-14, FA87729-15, FA87729-16, FA87729-17, FA87729-18, FA87729-19, FA87729-20, FA87729-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	25	18.6	74	72-117
100-42-5	Styrene	25	20.6	82	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	20.3	81	72-120
127-18-4	Tetrachloroethylene	25	22.0	88	76-135
108-88-3	Toluene	25	20.6	82	80-120
120-82-1	1,2,4-Trichlorobenzene	25	20.5	82	73-129
71-55-6	1,1,1-Trichloroethane	25	21.5	86	75-130
79-00-5	1,1,2-Trichloroethane	25	20.7	83	76-119
79-01-6	Trichloroethylene	25	21.2	85	81-126
75-69-4	Trichlorofluoromethane	25	26.7	107	71-156
75-01-4	Vinyl Chloride	25	22.0	88	69-159
1330-20-7	Xylene (total)	75	65.5	87	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	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:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3284-BS	P80667.D	1	08/13/21	SO	n/a	n/a	VP3284

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-3, FA87729-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	23.1	92	78-120
127-18-4	Tetrachloroethylene	25	23.2	93	76-135
79-01-6	Trichloroethylene	25	22.5	90	81-126

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

\* = Outside of Control Limits.

5.2.2  
5

# Blank Spike Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1378-BS	5E30093.D	1	08/13/21	CV	n/a	n/a	V5E1378

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-8, FA87729-9, FA87729-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	85.2	68	50-147
71-43-2	Benzene	25	25.8	103	81-122
75-27-4	Bromodichloromethane	25	24.8	99	79-123
75-25-2	Bromoform	25	22.2	89	66-123
78-93-3	2-Butanone (MEK)	125	101	81	56-143
75-15-0	Carbon Disulfide	25	21.0	84	66-148
56-23-5	Carbon Tetrachloride	25	26.3	105	76-136
108-90-7	Chlorobenzene	25	24.6	98	82-124
75-00-3	Chloroethane	25	19.4	78	62-144
67-66-3	Chloroform	25	24.3	97	80-124
110-82-7	Cyclohexane	25	27.3	109	73-138
124-48-1	Dibromochloromethane	25	23.0	92	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.9	80	64-123
106-93-4	1,2-Dibromoethane	25	23.7	95	75-120
75-71-8	Dichlorodifluoromethane	25	18.6	74	42-167
95-50-1	1,2-Dichlorobenzene	25	24.6	98	82-124
541-73-1	1,3-Dichlorobenzene	25	25.6	102	84-125
106-46-7	1,4-Dichlorobenzene	25	24.2	97	78-120
75-34-3	1,1-Dichloroethane	25	27.0	108	81-122
107-06-2	1,2-Dichloroethane	25	24.4	98	75-125
75-35-4	1,1-Dichloroethylene	25	27.3	109	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.2	105	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.8	107	76-127
78-87-5	1,2-Dichloropropane	25	26.2	105	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.9	112	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.3	101	80-120
100-41-4	Ethylbenzene	25	25.7	103	81-121
76-13-1	Freon 113	25	23.6	94	72-134
591-78-6	2-Hexanone	125	91.6	73	61-129
98-82-8	Isopropylbenzene	25	27.3	109	83-132
79-20-9	Methyl Acetate	125	86.4	69	65-126
74-83-9	Methyl Bromide	25	19.7	79	59-143
74-87-3	Methyl Chloride	25	21.4	86	50-159
108-87-2	Methylcyclohexane	25	29.6	118	76-129
75-09-2	Methylene Chloride	25	22.7	91	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	106	85	66-122

\* = Outside of Control Limits.

5.2.3  
5

# Blank Spike Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1378-BS	5E30093.D	1	08/13/21	CV	n/a	n/a	V5E1378

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-8, FA87729-9, FA87729-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	25	22.0	88	72-117
100-42-5	Styrene	25	25.2	101	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	21.4	86	72-120
127-18-4	Tetrachloroethylene	25	25.9	104	76-135
108-88-3	Toluene	25	25.1	100	80-120
120-82-1	1,2,4-Trichlorobenzene	25	23.6	94	73-129
71-55-6	1,1,1-Trichloroethane	25	25.1	100	75-130
79-00-5	1,1,2-Trichloroethane	25	23.9	96	76-119
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-69-4	Trichlorofluoromethane	25	23.8	95	71-156
75-01-4	Vinyl Chloride	25	21.2	85	69-159
1330-20-7	Xylene (total)	75	80.4	107	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	101%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E1381-BS	5E30168.D	1	08/17/21	LV	n/a	n/a	V5E1381

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	25.7	103	78-120
79-01-6	Trichloroethylene	25	25.5	102	81-126

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

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87717-10MS	P80662.D	50	08/12/21	SO	n/a	n/a	VP3283
FA87717-10MSD	P80663.D	50	08/12/21	SO	n/a	n/a	VP3283
FA87717-10	P80643.D	50	08/12/21	SO	n/a	n/a	VP3283

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-2, FA87729-3, FA87729-4, FA87729-5, FA87729-6, FA87729-7, FA87729-11, FA87729-12, FA87729-13, FA87729-14, FA87729-15, FA87729-16, FA87729-17, FA87729-18, FA87729-19, FA87729-20, FA87729-21

CAS No.	Compound	FA87717-10 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
		ug/l	Q								
67-64-1	Acetone	ND	6250	5510	88	6250	5510	88	0	50-147/21	
71-43-2	Benzene	ND	1250	1240	99	1250	1260	101	2	81-122/14	
75-27-4	Bromodichloromethane	ND	1250	941	75*	1250	992	79	5	79-123/19	
75-25-2	Bromoform	ND	1250	780	62*	1250	807	65*	3	66-123/21	
78-93-3	2-Butanone (MEK)	ND	6250	5740	92	6250	5730	92	0	56-143/18	
75-15-0	Carbon Disulfide	ND	1250	751	60*	1250	808	65*	7	66-148/23	
56-23-5	Carbon Tetrachloride	ND	1250	1040	83	1250	1060	85	2	76-136/23	
108-90-7	Chlorobenzene	ND	1250	1180	94	1250	1180	94	0	82-124/14	
75-00-3	Chloroethane	ND	1250	1740	139	1250	1580	126	10	62-144/20	
67-66-3	Chloroform	ND	1250	1140	91	1250	1140	91	0	80-124/15	
110-82-7	Cyclohexane	ND	1250	977	78	1250	1020	82	4	73-138/18	
124-48-1	Dibromochloromethane	ND	1250	899	72*	1250	926	74*	3	78-122/19	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1250	886	71	1250	931	74	5	64-123/18	
106-93-4	1,2-Dibromoethane	ND	1250	1050	84	1250	1070	86	2	75-120/13	
75-71-8	Dichlorodifluoromethane	ND	1250	789	63	1250	806	64	2	42-167/19	
95-50-1	1,2-Dichlorobenzene	ND	1250	1180	94	1250	1200	96	2	82-124/14	
541-73-1	1,3-Dichlorobenzene	ND	1250	1220	98	1250	1220	98	0	84-125/14	
106-46-7	1,4-Dichlorobenzene	ND	1250	1180	94	1250	1180	94	0	78-120/15	
75-34-3	1,1-Dichloroethane	ND	1250	1230	98	1250	1250	100	2	81-122/15	
107-06-2	1,2-Dichloroethane	ND	1250	1130	90	1250	1160	93	3	75-125/14	
75-35-4	1,1-Dichloroethylene	ND	1250	1480	118	1250	1490	119	1	78-137/18	
156-59-2	cis-1,2-Dichloroethylene	ND	1250	1130	90	1250	1190	95	5	78-120/15	
156-60-5	trans-1,2-Dichloroethylene	ND	1250	1150	92	1250	1180	94	3	76-127/17	
78-87-5	1,2-Dichloropropane	ND	1250	1150	92	1250	1160	93	1	76-124/14	
10061-01-5	cis-1,3-Dichloropropene	ND	1250	965	77	1250	977	78	1	75-118/23	
10061-02-6	trans-1,3-Dichloropropene	ND	1250	1020	82	1250	1060	85	4	80-120/22	
100-41-4	Ethylbenzene	1710	1250	3270	125*	1250	3260	124*	0	81-121/14	
76-13-1	Freon 113	ND	1250	1150	92	1250	1160	93	1	72-134/20	
591-78-6	2-Hexanone	ND	6250	6550	105	6250	6540	105	0	61-129/18	
98-82-8	Isopropylbenzene	45.8	J	1250	1200	92	1250	1220	94	2	83-132/15
79-20-9	Methyl Acetate	ND	6250	5870	94	6250	5920	95	1	65-126/18	
74-83-9	Methyl Bromide	ND	1250	839	67	1250	978	78	15	59-143/19	
74-87-3	Methyl Chloride	ND	1250	909	73	1250	929	74	2	50-159/19	
108-87-2	Methylcyclohexane	ND	1250	1020	82	1250	1040	83	2	76-129/17	
75-09-2	Methylene Chloride	ND	1250	1040	83	1250	1040	83	0	69-135/16	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6250	5870	94	6250	5900	94	1	66-122/16	

\* = Outside of Control Limits.

5.3.1  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87717-10MS	P80662.D	50	08/12/21	SO	n/a	n/a	VP3283
FA87717-10MSD	P80663.D	50	08/12/21	SO	n/a	n/a	VP3283
FA87717-10	P80643.D	50	08/12/21	SO	n/a	n/a	VP3283

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-2, FA87729-3, FA87729-4, FA87729-5, FA87729-6, FA87729-7, FA87729-11, FA87729-12, FA87729-13, FA87729-14, FA87729-15, FA87729-16, FA87729-17, FA87729-18, FA87729-19, FA87729-20, FA87729-21

CAS No.	Compound	FA87717-10 Spike		MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q ug/l	ug/l	%	ug/l	ug/l	%		Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND	1250	976	78	1250	1010	81	3	72-117/14
100-42-5	Styrene	ND	1250	1060	85	1250	1090	87	3	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1250	1140	91	1250	1120	90	2	72-120/14
127-18-4	Tetrachloroethylene	ND	1250	1170	94	1250	1180	94	1	76-135/16
108-88-3	Toluene	ND	1250	1090	87	1250	1100	88	1	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND	1250	1050	84	1250	1080	86	3	73-129/20
71-55-6	1,1,1-Trichloroethane	ND	1250	1130	90	1250	1160	93	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND	1250	1100	88	1250	1160	93	5	76-119/14
79-01-6	Trichloroethylene	ND	1250	1100	88	1250	1140	91	4	81-126/15
75-69-4	Trichlorofluoromethane	ND	1250	1650	132	1250	1620	130	2	71-156/21
75-01-4	Vinyl Chloride	ND	1250	1030	82	1250	1060	85	3	69-159/18
1330-20-7	Xylene (total)	3840	3750	7490	97	3750	7500	98	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA87717-10	Limits
1868-53-7	Dibromofluoromethane	98%	100%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	104%	104%	79-125%
2037-26-5	Toluene-D8	99%	99%	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	99%	102%	83-118%

\* = Outside of Control Limits.

5.3.1  
5



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87784-1MS	5E30094.D	1	08/13/21	CV	n/a	n/a	V5E1378
FA87784-1MSD	5E30095.D	1	08/13/21	CV	n/a	n/a	V5E1378
FA87784-1	5E30088.D	1	08/13/21	CV	n/a	n/a	V5E1378

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-8, FA87729-9, FA87729-10

CAS No.	Compound	FA87784-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	125	86.6	69	125	58.8	47*	38*	50-147/21
71-43-2	Benzene	ND	25	26.2	105	25	23.9	96	9	81-122/14
75-27-4	Bromodichloromethane	ND	25	25.2	101	25	22.4	90	12	79-123/19
75-25-2	Bromoform	ND	25	22.0	88	25	19.7	79	11	66-123/21
78-93-3	2-Butanone (MEK)	ND	125	99.0	79	125	70.1	56	34*	56-143/18
75-15-0	Carbon Disulfide	ND	25	19.1	76	25	17.8	71	7	66-148/23
56-23-5	Carbon Tetrachloride	ND	25	27.7	111	25	26.0	104	6	76-136/23
108-90-7	Chlorobenzene	ND	25	25.3	101	25	23.1	92	9	82-124/14
75-00-3	Chloroethane	ND	25	20.5	82	25	21.7	87	6	62-144/20
67-66-3	Chloroform	ND	25	24.6	98	25	22.2	89	10	80-124/15
110-82-7	Cyclohexane	ND	25	27.9	112	25	26.0	104	7	73-138/18
124-48-1	Dibromochloromethane	ND	25	23.1	92	25	20.9	84	10	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	19.9	80	25	18.0	72	10	64-123/18
106-93-4	1,2-Dibromoethane	ND	25	24.1	96	25	21.9	88	10	75-120/13
75-71-8	Dichlorodifluoromethane	ND	25	19.4	78	25	19.3	77	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND	25	25.8	103	25	23.5	94	9	82-124/14
541-73-1	1,3-Dichlorobenzene	ND	25	26.6	106	25	24.3	97	9	84-125/14
106-46-7	1,4-Dichlorobenzene	ND	25	25.0	100	25	22.8	91	9	78-120/15
75-34-3	1,1-Dichloroethane	ND	25	27.2	109	25	24.9	100	9	81-122/15
107-06-2	1,2-Dichloroethane	ND	25	24.3	97	25	20.7	83	16*	75-125/14
75-35-4	1,1-Dichloroethylene	ND	25	28.5	114	25	26.4	106	8	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND	25	27.0	108	25	24.9	100	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND	25	27.3	109	25	24.9	100	9	76-127/17
78-87-5	1,2-Dichloropropane	ND	25	26.7	107	25	23.5	94	13	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND	25	28.4	114	25	26.4	106	7	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND	25	24.3	97	25	22.2	89	9	80-120/22
100-41-4	Ethylbenzene	ND	25	25.9	104	25	23.8	95	8	81-121/14
76-13-1	Freon 113	ND	25	25.5	102	25	23.8	95	7	72-134/20
591-78-6	2-Hexanone	ND	125	96.1	77	125	98.7	79	3	61-129/18
98-82-8	Isopropylbenzene	ND	25	28.4	114	25	25.8	103	10	83-132/15
79-20-9	Methyl Acetate	ND	125	92.4	74	125	71.0	57*	26*	65-126/18
74-83-9	Methyl Bromide	ND	25	19.9	80	25	20.9	84	5	59-143/19
74-87-3	Methyl Chloride	ND	25	21.6	86	25	20.4	82	6	50-159/19
108-87-2	Methylcyclohexane	ND	25	30.4	122	25	28.2	113	8	76-129/17
75-09-2	Methylene Chloride	ND	25	22.6	90	25	20.7	83	9	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	125	102	82	125	99.3	79	3	66-122/16

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87784-1MS	5E30094.D	1	08/13/21	CV	n/a	n/a	V5E1378
FA87784-1MSD	5E30095.D	1	08/13/21	CV	n/a	n/a	V5E1378
FA87784-1	5E30088.D	1	08/13/21	CV	n/a	n/a	V5E1378

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-8, FA87729-9, FA87729-10

CAS No.	Compound	FA87784-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND	25	23.0	92	25	20.5	82	11	72-117/14
100-42-5	Styrene	ND	25	25.7	103	25	23.4	94	9	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	21.5	86	25	19.0	76	12	72-120/14
127-18-4	Tetrachloroethylene	ND	25	25.8	103	25	24.4	98	6	76-135/16
108-88-3	Toluene	ND	25	25.3	101	25	23.3	93	8	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND	25	26.3	105	25	23.8	95	10	73-129/20
71-55-6	1,1,1-Trichloroethane	ND	25	26.5	106	25	24.7	99	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND	25	24.1	96	25	22.0	88	9	76-119/14
79-01-6	Trichloroethylene	ND	25	26.1	104	25	24.5	98	6	81-126/15
75-69-4	Trichlorofluoromethane	ND	25	25.7	103	25	26.0	104	1	71-156/21
75-01-4	Vinyl Chloride	ND	25	22.4	90	25	22.6	90	1	69-159/18
1330-20-7	Xylene (total)	ND	75	82.2	110	75	74.8	100	9	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA87784-1	Limits
1868-53-7	Dibromofluoromethane	98%	96%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	93%	107%	79-125%
2037-26-5	Toluene-D8	100%	101%	105%	85-112%
460-00-4	4-Bromofluorobenzene	102%	103%	108%	83-118%

\* = Outside of Control Limits.

5.3.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87820-2MS	P80689.D	1	08/13/21	SO	n/a	n/a	VP3284
FA87820-2MSD	P80690.D	1	08/13/21	SO	n/a	n/a	VP3284
FA87820-2	P80678.D	1	08/13/21	SO	n/a	n/a	VP3284

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-1, FA87729-3, FA87729-4

CAS No.	Compound	FA87820-2 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND	25	23.1	92	25	24.7	99	7	78-120/15
127-18-4	Tetrachloroethylene	ND	25	22.0	88	25	22.4	90	2	76-135/16
79-01-6	Trichloroethylene	ND	25	23.0	92	25	23.4	94	2	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA87820-2	Limits
1868-53-7	Dibromofluoromethane	99%	100%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	106%	104%	79-125%
2037-26-5	Toluene-D8	98%	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	101%	83-118%

\* = Outside of Control Limits.

5.3.3  
5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA87729  
**Account:** ARCGMSCA ARCADIS Geraghty & Miller  
**Project:** Brenntag; Charleston, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87901-1MS	5E30189.D	1	08/17/21	LV	n/a	n/a	V5E1381
FA87901-1MSD	5E30190.D	1	08/17/21	LV	n/a	n/a	V5E1381
FA87901-1	5E30177.D	1	08/17/21	LV	n/a	n/a	V5E1381

The QC reported here applies to the following samples:

Method: SW846 8260D

FA87729-10

CAS No.	Compound	FA87901-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND	25	25.8	103	25	26.2	105	2	78-120/15
79-01-6	Trichloroethylene	ND	25	26.2	105	25	25.4	102	3	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA87901-1	Limits
1868-53-7	Dibromofluoromethane	96%	99%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	113%	79-125%
2037-26-5	Toluene-D8	100%	101%	105%	85-112%
460-00-4	4-Bromofluorobenzene	105%	105%	112%	83-118%

\* = Outside of Control Limits.

5.3.4  
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