

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127802	SITE 13 TW-2	Water	02/05/2014 14:10	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	02/15/2014 23:16	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2050	50.0	5.55	ug/L
108-88-3	Toluene	1010	50.0	6.09	ug/L
100-41-4	Ethylbenzene	3340	50.0	5.45	ug/L
1330-20-7	Xylene (total)	7900	150	8.94	ug/L
91-20-3	Naphthalene	847	250	8.81	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	29.7J	50.0	3.89	ug/L
107-06-2	1,2-Dichloroethane	5.81U	50.0	5.81	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2500	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	2500	2450	ug/L	98	77 - 127
2037-26-5	Toluene d8	2500	2430	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2540	ug/L	102	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	02/15/2014 23:16	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	12.0U	250	12.0	ug/L
75-65-0	t-Butanol (TBA)	14.5U	500	14.5	ug/L
108-20-3	diisopropyl Ether (DIPE)	180J	250	11.8	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	11.7U	250	11.7	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	1880U	5000	1880	ug/L
64-17-5	Ethanol	6250U	50000	6250	ug/L
75-85-4	tert-amyl alcohol (TAA)	919J	1000	50.7	ug/L
762-75-4	tert-butyl formate (TBF)	24.3U	2500	24.3	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2500	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	2500	2450	ug/L	98	77 - 127
2037-26-5	Toluene d8	2500	2430	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2540	ug/L	102	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127803	SITE 13 SB-2 (0-2)	Solid	02/05/2014 14:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2500	02/15/2014 16:33	CEK	525611

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	25400	8690	88.1	ug/Kg
108-88-3	Toluene	6950J	8690	186	ug/Kg
100-41-4	Ethylbenzene	199000	8690	318	ug/Kg
1330-20-7	Xylene (total)	414000	17400	429	ug/Kg
91-20-3	Naphthalene	95700	8690	674	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	78500	74400	ug/Kg	95	62 - 127
1868-53-7	Dibromofluoromethane	78500	81800	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	78500	71800	ug/Kg	91	71 - 132
17060-07-0	1,2-Dichloroethane-d4	78500	96200	ug/Kg	123	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127804	SITE 15 TW-1	Water	02/05/2014 14:30	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 23:22	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	39.0	1.00	0.111	ug/L
108-88-3	Toluene	17.9	1.00	0.122	ug/L
100-41-4	Ethylbenzene	35.8	1.00	0.109	ug/L
1330-20-7	Xylene (total)	43.4	3.00	0.179	ug/L
91-20-3	Naphthalene	21.4	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.845J	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	50	48.7	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	47.1	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	54.9	ug/L	110	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 23:22	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	3.14J	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	42.7	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	50	48.7	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	47.1	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	54.9	ug/L	110	71 - 127

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 13:36	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	0.406U	11.1	0.406	ug/L
208-96-8	Acenaphthylene	0.410U	11.1	0.410	ug/L
120-12-7	Anthracene	0.239U	11.1	0.239	ug/L
56-55-3	Benzo(a)anthracene	0.273U	11.1	0.273	ug/L
50-32-8	Benzo(a)pyrene	0.189U	11.1	0.189	ug/L
205-99-2	Benzo(b)fluoranthene	0.206U	11.1	0.206	ug/L
191-24-2	Benzo(g,h,i)perylene	0.220U	11.1	0.220	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127804	SITE 15 TW-1	Water	02/05/2014 14:30	02/12/2014 09:50

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 13:36	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
207-08-9	Benzo(k)fluoranthene	0.306U	11.1	0.306	ug/L
218-01-9	Chrysene	0.143U	11.1	0.143	ug/L
53-70-3	Dibenz(a,h)anthracene	0.238U	11.1	0.238	ug/L
206-44-0	Fluoranthene	0.261U	11.1	0.261	ug/L
86-73-7	Fluorene	0.398U	11.1	0.398	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.177U	11.1	0.177	ug/L
91-20-3	Naphthalene	32.5	11.1	0.518	ug/L
85-01-8	Phenanthrene	0.210U	11.1	0.210	ug/L
129-00-0	Pyrene	0.451U	11.1	0.451	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	55.6	46	ug/L	83	40 - 110
321-60-8	2-Fluorobiphenyl	55.6	47.7	ug/L	86	50 - 110
1718-51-0	Terphenyl-d14	55.6	49.9	ug/L	90	50 - 135

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127805	SITE 15 SB-1 (6-8)	Solid	02/05/2014 14:45	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/16/2014 04:47	CEK	525628

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.034U	3.35	0.034	ug/Kg
108-88-3	Toluene	0.072U	3.35	0.072	ug/Kg
100-41-4	Ethylbenzene	0.123U	3.35	0.123	ug/Kg
1330-20-7	Xylene (total)	0.165U	6.70	0.165	ug/Kg
91-20-3	Naphthalene	0.260U	3.35	0.260	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	27.4	30	ug/Kg	109	62 - 127
1868-53-7	Dibromofluoromethane	27.4	29.6	ug/Kg	108	65 - 130
2037-26-5	Toluene d8	27.4	29.3	ug/Kg	107	71 - 132
17060-07-0	1,2-Dichloroethane-d4	27.4	31.4	ug/Kg	114	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127806	SITE 12 TW-1	Water	02/05/2014 15:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			250	02/15/2014 23:39	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	24400	250	27.8	ug/L
108-88-3	Toluene	24900	250	30.5	ug/L
100-41-4	Ethylbenzene	2520	250	27.3	ug/L
1330-20-7	Xylene (total)	11400	750	44.7	ug/L
91-20-3	Naphthalene	1450	1250	44.1	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	19.4U	250	19.4	ug/L
107-06-2	1,2-Dichloroethane	574	250	29.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	12500	12700	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	12500	11900	ug/L	95	77 - 127
2037-26-5	Toluene d8	12500	12500	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	12500	12000	ug/L	96	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			250	02/15/2014 23:39	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	60.0U	1250	60.0	ug/L
75-65-0	t-Butanol (TBA)	72.5U	2500	72.5	ug/L
108-20-3	diisopropyl Ether (DIPE)	1110J	1250	59.0	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	58.5U	1250	58.5	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	9400U	25000	9400	ug/L
64-17-5	Ethanol	31200U	250000	31200	ug/L
75-85-4	tert-amyl alcohol (TAA)	12700	5000	253	ug/L
762-75-4	tert-butyl formate (TBF)	122U	12500	122	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	12500	12700	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	12500	11900	ug/L	95	77 - 127
2037-26-5	Toluene d8	12500	12500	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	12500	12000	ug/L	96	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127807	SITE 12 TW-2	Water	02/05/2014 15:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			250	02/16/2014 00:02	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	24100	250	27.8	ug/L
108-88-3	Toluene	26400	250	30.5	ug/L
100-41-4	Ethylbenzene	2450	250	27.3	ug/L
1330-20-7	Xylene (total)	10700	750	44.7	ug/L
91-20-3	Naphthalene	1160J	1250	44.1	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	19.4U	250	19.4	ug/L
107-06-2	1,2-Dichloroethane	673	250	29.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	12500	12300	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	12500	12400	ug/L	99	77 - 127
2037-26-5	Toluene d8	12500	12200	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	12500	12300	ug/L	98	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			250	02/16/2014 00:02	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	60.0U	1250	60.0	ug/L
75-65-0	t-Butanol (TBA)	72.5U	2500	72.5	ug/L
108-20-3	diisopropyl Ether (DIPE)	1830	1250	59.0	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	58.5U	1250	58.5	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	9400U	25000	9400	ug/L
64-17-5	Ethanol	31200U	250000	31200	ug/L
75-85-4	tert-amyl alcohol (TAA)	15700	5000	253	ug/L
762-75-4	tert-butyl formate (TBF)	122U	12500	122	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	12500	12300	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	12500	12400	ug/L	99	77 - 127
2037-26-5	Toluene d8	12500	12200	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	12500	12300	ug/L	98	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127808	SITE 12 SB-1 (2-4)	Solid	02/05/2014 15:36	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	02/17/2014 15:17	KRH	525712

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1390	258	2.61	ug/Kg
108-88-3	Toluene	464	258	5.52	ug/Kg
100-41-4	Ethylbenzene	2260	258	9.43	ug/Kg
1330-20-7	Xylene (total)	5550	515	12.7	ug/Kg
91-20-3	Naphthalene	1410	258	20.0	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2050	1950	ug/Kg	95	62 - 127
1868-53-7	Dibromofluoromethane	2050	2020	ug/Kg	98	65 - 130
2037-26-5	Toluene d8	2050	2040	ug/Kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2050	2200	ug/Kg	107	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127809	SITE 8 TW-4	Water	02/07/2014 12:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	02/16/2014 00:25	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	49.4	5.00	0.555	ug/L
108-88-3	Toluene	3.62J	5.00	0.609	ug/L
100-41-4	Ethylbenzene	18.7	5.00	0.545	ug/L
1330-20-7	Xylene (total)	19.0	15.0	0.894	ug/L
91-20-3	Naphthalene	18.7J	25.0	0.881	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	477	5.00	0.389	ug/L
107-06-2	1,2-Dichloroethane	0.581U	5.00	0.581	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	252	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	250	249	ug/L	100	77 - 127
2037-26-5	Toluene d8	250	241	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	247	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	02/16/2014 00:25	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	37.0	25.0	1.20	ug/L
75-65-0	t-Butanol (TBA)	38.2J	50.0	1.45	ug/L
108-20-3	diisopropyl Ether (DIPE)	6.61J	25.0	1.18	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.17U	25.0	1.17	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	625U	5000	625	ug/L
75-85-4	tert-amyl alcohol (TAA)	68.1J	100	5.07	ug/L
762-75-4	tert-butyl formate (TBF)	2.43U	250	2.43	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	252	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	250	249	ug/L	100	77 - 127
2037-26-5	Toluene d8	250	241	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	247	ug/L	99	71 - 127

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 13:52	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	0.619U	16.9	0.619	ug/L
208-96-8	Acenaphthylene	0.625U	16.9	0.625	ug/L
120-12-7	Anthracene	0.364U	16.9	0.364	ug/L
56-55-3	Benzo(a)anthracene	0.417U	16.9	0.417	ug/L
50-32-8	Benzo(a)pyrene	0.288U	16.9	0.288	ug/L
205-99-2	Benzo(b)fluoranthene	0.314U	16.9	0.314	ug/L
191-24-2	Benzo(g,h,i)perylene	0.336U	16.9	0.336	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127809	SITE 8 TW-4	Water	02/07/2014 12:00	02/12/2014 09:50

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 13:52	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
207-08-9	Benzo(k)fluoranthene	0.466U	16.9	0.466	ug/L
218-01-9	Chrysene	0.219U	16.9	0.219	ug/L
53-70-3	Dibenz(a,h)anthracene	0.363U	16.9	0.363	ug/L
206-44-0	Fluoranthene	0.398U	16.9	0.398	ug/L
86-73-7	Fluorene	1.30J	16.9	0.607	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.269U	16.9	0.269	ug/L
91-20-3	Naphthalene	24.3	16.9	0.790	ug/L
85-01-8	Phenanthrene	0.320U	16.9	0.320	ug/L
129-00-0	Pyrene	0.688U	16.9	0.688	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	84.7	53	ug/L	63	40 - 110
321-60-8	2-Fluorobiphenyl	84.7	50.4	ug/L	59	50 - 110
1718-51-0	Terphenyl-d14	84.7	36.6	ug/L	43*	50 - 135

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127810	SITE 8 SB-3 (2-4)	Solid	02/07/2014 12:05	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1000	02/15/2014 16:54	CEK	525611

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	941J	3160	32.1	ug/Kg
108-88-3	Toluene	67.7U	3160	67.7	ug/Kg
100-41-4	Ethylbenzene	40400	3160	116	ug/Kg
1330-20-7	Xylene (total)	58300	6330	156	ug/Kg
91-20-3	Naphthalene	17600	3160	245	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	27200	26400	ug/Kg	97	62 - 127
1868-53-7	Dibromofluoromethane	27200	29000	ug/Kg	107	65 - 130
2037-26-5	Toluene d8	27200	25600	ug/Kg	94	71 - 132
17060-07-0	1,2-Dichloroethane-d4	27200	29700	ug/Kg	109	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127811	SITE 19 TW-1	Water	02/06/2014 09:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 19:54	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.5	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	48.3	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	47.2	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 19:54	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.5	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	48.3	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	47.2	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127812	SITE 19 TW-2	Water	02/06/2014 09:15	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 20:17	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 20:17	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127813	SITE 19 SB-2 (2-4)	Solid	02/06/2014 09:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/16/2014 05:10	CEK	525628

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.030U	2.92	0.030	ug/Kg
108-88-3	Toluene	0.062U	2.92	0.062	ug/Kg
100-41-4	Ethylbenzene	0.107U	2.92	0.107	ug/Kg
1330-20-7	Xylene (total)	0.144U	5.83	0.144	ug/Kg
91-20-3	Naphthalene	0.226U	2.92	0.226	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	25	26.6	ug/Kg	107	62 - 127
1868-53-7	Dibromofluoromethane	25	27.1	ug/Kg	109	65 - 130
2037-26-5	Toluene d8	25	26.5	ug/Kg	106	71 - 132
17060-07-0	1,2-Dichloroethane-d4	25	27.6	ug/Kg	111	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127814	SITE 18 SB-2 (6-8)	Solid	02/06/2014 10:15	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	02/15/2014 17:17	CEK	525611

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	20.2J	162	1.64	ug/Kg
108-88-3	Toluene	3.46U	162	3.46	ug/Kg
100-41-4	Ethylbenzene	76.6J	162	5.92	ug/Kg
1330-20-7	Xylene (total)	45.9J	323	7.99	ug/Kg
91-20-3	Naphthalene	299	162	12.5	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1350	1320	ug/Kg	98	62 - 127
1868-53-7	Dibromofluoromethane	1350	1410	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	1350	1250	ug/Kg	92	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1350	1440	ug/Kg	106	62 - 125

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/15/2014 02:30	525568	EPA 3550C	1	02/17/2014 12:36	KCB	525676

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	12.1U	394	12.1	ug/Kg
208-96-8	Acenaphthylene	8.07U	394	8.07	ug/Kg
120-12-7	Anthracene	8.12U	394	8.12	ug/Kg
56-55-3	Benzo(a)anthracene	7.36U	394	7.36	ug/Kg
50-32-8	Benzo(a)pyrene	4.95U	394	4.95	ug/Kg
205-99-2	Benzo(b)fluoranthene	7.79U	394	7.79	ug/Kg
191-24-2	Benzo(g,h,i)perylene	5.96U	394	5.96	ug/Kg
207-08-9	Benzo(k)fluoranthene	6.10U	394	6.10	ug/Kg
218-01-9	Chrysene	8.55U	394	8.55	ug/Kg
53-70-3	Dibenz(a,h)anthracene	5.67U	394	5.67	ug/Kg
206-44-0	Fluoranthene	6.42U	394	6.42	ug/Kg
86-73-7	Fluorene	7.11U	394	7.11	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	9.50U	394	9.50	ug/Kg
91-20-3	Naphthalene	134J	394	12.3	ug/Kg
85-01-8	Phenanthrene	9.06U	394	9.06	ug/Kg
129-00-0	Pyrene	5.53U	394	5.53	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1270	ug/Kg	76	35 - 100
321-60-8	2-Fluorobiphenyl	1670	1290	ug/Kg	77	45 - 105
1718-51-0	Terphenyl-d14	1670	1510	ug/Kg	91	30 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127815	SITE 18 TW-1	Water	02/06/2014 09:40	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 20:40	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.352J	1.00	0.109	ug/L
1330-20-7	Xylene (total)	1.28J	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49.3	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 20:40	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49.3	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127816	SITE 18 TW-2	Water	02/06/2014 09:50	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 21:03	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.414J	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	51.7	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 21:03	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	51.7	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.1	ug/L	100	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127817	SITE 14 TW-1	Water	02/06/2014 11:15	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 21:26	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.2	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	48.4	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 21:26	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.2	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	48.4	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127818	SITE 14 TW-2	Water	02/06/2014 11:30	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 21:49	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 21:49	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127819	SITE 14 TW-3	Water	02/06/2014 11:45	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 22:12	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	48.1	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/14/2014 22:12	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.6	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	48.1	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.9	ug/L	98	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127820	SITE 14 SB-2 (2-4)	Solid	02/06/2014 12:30	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/16/2014 04:02	CEK	525628

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.038U	3.77	0.038	ug/Kg
108-88-3	Toluene	0.081U	3.77	0.081	ug/Kg
100-41-4	Ethylbenzene	0.138U	3.77	0.138	ug/Kg
1330-20-7	Xylene (total)	0.186U	7.53	0.186	ug/Kg
91-20-3	Naphthalene	0.292U	3.77	0.292	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	30.2	32.5	ug/Kg	108	62 - 127
1868-53-7	Dibromofluoromethane	30.2	33.2	ug/Kg	110	65 - 130
2037-26-5	Toluene d8	30.2	32.3	ug/Kg	107	71 - 132
17060-07-0	1,2-Dichloroethane-d4	30.2	34	ug/Kg	113	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127821	SITE 9 TW-1	Water	02/07/2014 14:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	02/14/2014 22:35	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	420	5.00	0.555	ug/L
108-88-3	Toluene	5.78	5.00	0.609	ug/L
100-41-4	Ethylbenzene	67.8	5.00	0.545	ug/L
1330-20-7	Xylene (total)	35.4	15.0	0.894	ug/L
91-20-3	Naphthalene	299	25.0	0.881	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	257	5.00	0.389	ug/L
107-06-2	1,2-Dichloroethane	0.581U	5.00	0.581	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	240	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	250	247	ug/L	99	77 - 127
2037-26-5	Toluene d8	250	245	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	242	ug/L	97	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	02/14/2014 22:35	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	6.88J	25.0	1.20	ug/L
75-65-0	t-Butanol (TBA)	1.45U	50.0	1.45	ug/L
108-20-3	diisopropyl Ether (DIPE)	1.18U	25.0	1.18	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.17U	25.0	1.17	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	625U	5000	625	ug/L
75-85-4	tert-amyl alcohol (TAA)	47.4J	100	5.07	ug/L
762-75-4	tert-butyl formate (TBF)	2.43U	250	2.43	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	240	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	250	247	ug/L	99	77 - 127
2037-26-5	Toluene d8	250	245	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	242	ug/L	97	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127822	SITE 9 TW-2	Water	02/07/2014 14:15	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	02/14/2014 22:59	CEK	525585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	6.83	2.00	0.222	ug/L
108-88-3	Toluene	3.38	2.00	0.244	ug/L
100-41-4	Ethylbenzene	4.90	2.00	0.218	ug/L
1330-20-7	Xylene (total)	4.90J	6.00	0.358	ug/L
91-20-3	Naphthalene	73.5	10.0	0.352	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	385	2.00	0.155	ug/L
107-06-2	1,2-Dichloroethane	0.232U	2.00	0.232	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	98.8	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	98.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	99.3	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	02/14/2014 22:59	CEK	525584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	9.44J	10.0	0.480	ug/L
75-65-0	t-Butanol (TBA)	41.1	20.0	0.580	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.967J	10.0	0.472	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.468U	10.0	0.468	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	250U	2000	250	ug/L
75-85-4	tert-amyl alcohol (TAA)	38.1J	40.0	2.03	ug/L
762-75-4	tert-butyl formate (TBF)	0.974U	100	0.974	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	98.8	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	98.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	99.3	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127823	SITE 9 SB-1 (0-2)	Solid	02/07/2014 14:35	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	02/15/2014 17:38	CEK	525611

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	11.5J	159	1.61	ug/Kg
108-88-3	Toluene	3.41U	159	3.41	ug/Kg
100-41-4	Ethylbenzene	189	159	5.83	ug/Kg
1330-20-7	Xylene (total)	7.86U	318	7.86	ug/Kg
91-20-3	Naphthalene	464	159	12.3	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1350	1330	ug/Kg	99	62 - 127
1868-53-7	Dibromofluoromethane	1350	1380	ug/Kg	102	65 - 130
2037-26-5	Toluene d8	1350	1250	ug/Kg	93	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1350	1410	ug/Kg	105	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127824	SITE 22 TW-1	Water	02/05/2014 11:35	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	02/16/2014 00:48	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	13.4J	20.0	2.22	ug/L
108-88-3	Toluene	1280	20.0	2.44	ug/L
100-41-4	Ethylbenzene	828	20.0	2.18	ug/L
1330-20-7	Xylene (total)	4260	60.0	3.58	ug/L
91-20-3	Naphthalene	152	100	3.52	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1.55U	20.0	1.55	ug/L
107-06-2	1,2-Dichloroethane	2.32U	20.0	2.32	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	976	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	1000	956	ug/L	96	77 - 127
2037-26-5	Toluene d8	1000	964	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	986	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	02/16/2014 00:48	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	4.80U	100	4.80	ug/L
75-65-0	t-Butanol (TBA)	5.80U	200	5.80	ug/L
108-20-3	diisopropyl Ether (DIPE)	4.72U	100	4.72	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	4.68U	100	4.68	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	752U	2000	752	ug/L
64-17-5	Ethanol	2500U	20000	2500	ug/L
75-85-4	tert-amyl alcohol (TAA)	20.3U	400	20.3	ug/L
762-75-4	tert-butyl formate (TBF)	9.74U	1000	9.74	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	976	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	1000	956	ug/L	96	77 - 127
2037-26-5	Toluene d8	1000	964	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	986	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127825	SITE 22 TW-2	Water	02/05/2014 12:15	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	02/16/2014 01:11	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2840	100	11.1	ug/L
108-88-3	Toluene	9280	100	12.2	ug/L
100-41-4	Ethylbenzene	1150	100	10.9	ug/L
1330-20-7	Xylene (total)	4410	300	17.9	ug/L
91-20-3	Naphthalene	383J	500	17.6	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	7.77U	100	7.77	ug/L
107-06-2	1,2-Dichloroethane	11.6U	100	11.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5030	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	5000	4870	ug/L	97	77 - 127
2037-26-5	Toluene d8	5000	5180	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	5160	ug/L	103	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	02/16/2014 01:11	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	24.0U	500	24.0	ug/L
75-65-0	t-Butanol (TBA)	29.0U	1000	29.0	ug/L
108-20-3	diisopropyl Ether (DIPE)	77.0J	500	23.6	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	23.4U	500	23.4	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	3760U	10000	3760	ug/L
64-17-5	Ethanol	12500U	100000	12500	ug/L
75-85-4	tert-amyl alcohol (TAA)	3130	2000	101	ug/L
762-75-4	tert-butyl formate (TBF)	48.7U	5000	48.7	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5030	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	5000	4870	ug/L	97	77 - 127
2037-26-5	Toluene d8	5000	5180	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	5160	ug/L	103	71 - 127

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 15:47	HCP	525527

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	0.435U	11.9	0.435	ug/L
208-96-8	Acenaphthylene	0.439U	11.9	0.439	ug/L
120-12-7	Anthracene	0.256U	11.9	0.256	ug/L
56-55-3	Benzo(a)anthracene	0.293U	11.9	0.293	ug/L
50-32-8	Benzo(a)pyrene	0.202U	11.9	0.202	ug/L
205-99-2	Benzo(b)fluoranthene	0.220U	11.9	0.220	ug/L
191-24-2	Benzo(g,h,i)perylene	0.236U	11.9	0.236	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127825	SITE 22 TW-2	Water	02/05/2014 12:15	02/12/2014 09:50

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 15:47	HCP	525527

CAS#	Parameter	Result	RDL	MDL	Units
207-08-9	Benzo(k)fluoranthene	0.327U	11.9	0.327	ug/L
218-01-9	Chrysene	0.154U	11.9	0.154	ug/L
53-70-3	Dibenz(a,h)anthracene	0.255U	11.9	0.255	ug/L
206-44-0	Fluoranthene	0.280U	11.9	0.280	ug/L
86-73-7	Fluorene	0.426U	11.9	0.426	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.189U	11.9	0.189	ug/L
85-01-8	Phenanthrene	0.225U	11.9	0.225	ug/L
129-00-0	Pyrene	0.483U	11.9	0.483	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	59.5	50	ug/L	84	40 - 110
321-60-8	2-Fluorobiphenyl	59.5	40.1	ug/L	67	50 - 110
1718-51-0	Terphenyl-d14	59.5	40.2	ug/L	68	50 - 135

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	2	02/14/2014 16:53	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	250	23.8	1.11	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	59.5	42.3	ug/L	71	40 - 110
321-60-8	2-Fluorobiphenyl	59.5	41.3	ug/L	69	50 - 110
1718-51-0	Terphenyl-d14	59.5	39.6	ug/L	67	50 - 135

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127826	SITE 20 TW-2	Water	02/05/2014 17:00	02/12/2014 09:50

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 16:03	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	0.406U	11.1	0.406	ug/L
208-96-8	Acenaphthylene	0.410U	11.1	0.410	ug/L
120-12-7	Anthracene	0.239U	11.1	0.239	ug/L
56-55-3	Benzo(a)anthracene	0.273U	11.1	0.273	ug/L
50-32-8	Benzo(a)pyrene	0.189U	11.1	0.189	ug/L
205-99-2	Benzo(b)fluoranthene	0.206U	11.1	0.206	ug/L
191-24-2	Benzo(g,h,i)perylene	0.220U	11.1	0.220	ug/L
207-08-9	Benzo(k)fluoranthene	0.306U	11.1	0.306	ug/L
218-01-9	Chrysene	0.143U	11.1	0.143	ug/L
53-70-3	Dibenz(a,h)anthracene	0.238U	11.1	0.238	ug/L
206-44-0	Fluoranthene	0.261U	11.1	0.261	ug/L
86-73-7	Fluorene	0.526J	11.1	0.398	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.177U	11.1	0.177	ug/L
91-20-3	Naphthalene	106	11.1	0.518	ug/L
85-01-8	Phenanthrene	0.345J	11.1	0.210	ug/L
129-00-0	Pyrene	0.451U	11.1	0.451	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	55.6	45.5	ug/L	82	40 - 110
321-60-8	2-Fluorobiphenyl	55.6	44.5	ug/L	80	50 - 110
1718-51-0	Terphenyl-d14	55.6	47.8	ug/L	86	50 - 135

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127827	SITE 21 TW-4	Water	02/05/2014 16:00	02/12/2014 09:50

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 16:20	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	0.406U	11.1	0.406	ug/L
208-96-8	Acenaphthylene	0.410U	11.1	0.410	ug/L
120-12-7	Anthracene	0.239U	11.1	0.239	ug/L
56-55-3	Benzo(a)anthracene	0.273U	11.1	0.273	ug/L
50-32-8	Benzo(a)pyrene	0.189U	11.1	0.189	ug/L
205-99-2	Benzo(b)fluoranthene	0.206U	11.1	0.206	ug/L
191-24-2	Benzo(g,h,i)perylene	0.220U	11.1	0.220	ug/L
207-08-9	Benzo(k)fluoranthene	0.306U	11.1	0.306	ug/L
218-01-9	Chrysene	0.143U	11.1	0.143	ug/L
53-70-3	Dibenz(a,h)anthracene	0.238U	11.1	0.238	ug/L
206-44-0	Fluoranthene	0.261U	11.1	0.261	ug/L
86-73-7	Fluorene	0.398U	11.1	0.398	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.177U	11.1	0.177	ug/L
91-20-3	Naphthalene	0.518U	11.1	0.518	ug/L
85-01-8	Phenanthrene	0.210U	11.1	0.210	ug/L
129-00-0	Pyrene	0.451U	11.1	0.451	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	55.6	43	ug/L	77	40 - 110
321-60-8	2-Fluorobiphenyl	55.6	43.9	ug/L	79	50 - 110
1718-51-0	Terphenyl-d14	55.6	47.8	ug/L	86	50 - 135

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127828	SITE 23 TW-1	Water	02/05/2014 13:05	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 13:21	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	4.12	1.00	0.111	ug/L
108-88-3	Toluene	11.3	1.00	0.122	ug/L
100-41-4	Ethylbenzene	1.57	1.00	0.109	ug/L
1330-20-7	Xylene (total)	5.29	3.00	0.179	ug/L
91-20-3	Naphthalene	3.57J	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	48.6	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 13:21	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	48.6	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127829	SITE 11 TW-1	Water	02/07/2014 09:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 13:44	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	11.3	1.00	0.111	ug/L
108-88-3	Toluene	17.1	1.00	0.122	ug/L
100-41-4	Ethylbenzene	5.28	1.00	0.109	ug/L
1330-20-7	Xylene (total)	18.3	3.00	0.179	ug/L
91-20-3	Naphthalene	4.71J	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.7	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49.8	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 13:44	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.7	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49.8	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127830	SITE 11 TW-2	Water	02/07/2014 08:50	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 14:07	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1.42	1.00	0.111	ug/L
108-88-3	Toluene	2.99	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	7.24	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	48.3	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 14:07	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	48.3	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.4	ug/L	95	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127831	SITE 11 SB-1 (0-2)	Solid	02/07/2014 09:10	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/16/2014 04:25	CEK	525628

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.036U	3.59	0.036	ug/Kg
108-88-3	Toluene	0.077U	3.59	0.077	ug/Kg
100-41-4	Ethylbenzene	0.131U	3.59	0.131	ug/Kg
1330-20-7	Xylene (total)	0.177U	7.17	0.177	ug/Kg
91-20-3	Naphthalene	0.278U	3.59	0.278	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	31.3	31.7	ug/Kg	101	62 - 127
1868-53-7	Dibromofluoromethane	31.3	35.1	ug/Kg	112	65 - 130
2037-26-5	Toluene d8	31.3	33.5	ug/Kg	107	71 - 132
17060-07-0	1,2-Dichloroethane-d4	31.3	35.5	ug/Kg	114	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127832	SITE 10 TW-1	Water	02/07/2014 10:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	02/15/2014 18:16	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	213	5.00	0.555	ug/L
108-88-3	Toluene	44.0	5.00	0.609	ug/L
100-41-4	Ethylbenzene	659	5.00	0.545	ug/L
1330-20-7	Xylene (total)	777	15.0	0.894	ug/L
91-20-3	Naphthalene	109	25.0	0.881	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	118	5.00	0.389	ug/L
107-06-2	1,2-Dichloroethane	0.581U	5.00	0.581	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	255	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	250	242	ug/L	97	77 - 127
2037-26-5	Toluene d8	250	256	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	242	ug/L	97	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	02/15/2014 18:16	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.20U	25.0	1.20	ug/L
75-65-0	t-Butanol (TBA)	1.45U	50.0	1.45	ug/L
108-20-3	diisopropyl Ether (DIPE)	1.18U	25.0	1.18	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.17U	25.0	1.17	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	625U	5000	625	ug/L
75-85-4	tert-amyl alcohol (TAA)	62.0J	100	5.07	ug/L
762-75-4	tert-butyl formate (TBF)	2.43U	250	2.43	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	255	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	250	242	ug/L	97	77 - 127
2037-26-5	Toluene d8	250	256	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	242	ug/L	97	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127833	SITE 10 TW-2	Water	02/07/2014 10:45	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	02/15/2014 18:40	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	37.7	10.0	1.11	ug/L
108-88-3	Toluene	20.8	10.0	1.22	ug/L
100-41-4	Ethylbenzene	1140	10.0	1.09	ug/L
1330-20-7	Xylene (total)	1880	30.0	1.79	ug/L
91-20-3	Naphthalene	560	50.0	1.76	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.777U	10.0	0.777	ug/L
107-06-2	1,2-Dichloroethane	1.16U	10.0	1.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	495	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	500	479	ug/L	96	77 - 127
2037-26-5	Toluene d8	500	479	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	489	ug/L	98	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	02/15/2014 18:40	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.40U	50.0	2.40	ug/L
75-65-0	t-Butanol (TBA)	2.90U	100	2.90	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.36U	50.0	2.36	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	2.34U	50.0	2.34	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	376U	1000	376	ug/L
64-17-5	Ethanol	1250U	10000	1250	ug/L
75-85-4	tert-amyl alcohol (TAA)	10.1U	200	10.1	ug/L
762-75-4	tert-butyl formate (TBF)	4.87U	500	4.87	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	495	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	500	479	ug/L	96	77 - 127
2037-26-5	Toluene d8	500	479	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	489	ug/L	98	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127834	SITE 10 TW-3	Water	02/07/2014 11:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	02/15/2014 19:03	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	20.0	2.00	0.222	ug/L
108-88-3	Toluene	3.17	2.00	0.244	ug/L
100-41-4	Ethylbenzene	234	2.00	0.218	ug/L
1330-20-7	Xylene (total)	26.4	6.00	0.358	ug/L
91-20-3	Naphthalene	136	10.0	0.352	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	10.1	2.00	0.155	ug/L
107-06-2	1,2-Dichloroethane	0.232U	2.00	0.232	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	97.7	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	100	99.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	100	102	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	107	ug/L	107	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	02/15/2014 19:03	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.480U	10.0	0.480	ug/L
75-65-0	t-Butanol (TBA)	0.580U	20.0	0.580	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.472U	10.0	0.472	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.468U	10.0	0.468	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	250U	2000	250	ug/L
75-85-4	tert-amyl alcohol (TAA)	2.03U	40.0	2.03	ug/L
762-75-4	tert-butyl formate (TBF)	0.974U	100	0.974	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	97.7	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	100	99.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	100	102	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	107	ug/L	107	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127835	SITE 10 SB-1 (0-2)	Solid	02/07/2014 11:05	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	02/15/2014 18:01	CEK	525611

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	38.0J	196	1.99	ug/Kg
108-88-3	Toluene	25.8J	196	4.20	ug/Kg
100-41-4	Ethylbenzene	981	196	7.19	ug/Kg
1330-20-7	Xylene (total)	414	393	9.70	ug/Kg
91-20-3	Naphthalene	1620	196	15.2	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1570	1560	ug/Kg	99	62 - 127
1868-53-7	Dibromofluoromethane	1570	1640	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	1570	1440	ug/Kg	91	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1570	1770	ug/Kg	112	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127836	SITE 8 TW-2	Water	02/07/2014 11:30	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	02/15/2014 15:34	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	43.5	2.00	0.222	ug/L
108-88-3	Toluene	19.3	2.00	0.244	ug/L
100-41-4	Ethylbenzene	71.9	2.00	0.218	ug/L
1330-20-7	Xylene (total)	87.0	6.00	0.358	ug/L
91-20-3	Naphthalene	44.8	10.0	0.352	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	2.75	2.00	0.155	ug/L
107-06-2	1,2-Dichloroethane	0.232U	2.00	0.232	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	97.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	100	99.5	ug/L	100	77 - 127
2037-26-5	Toluene d8	100	96	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	95.9	ug/L	96	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	02/15/2014 15:34	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.480U	10.0	0.480	ug/L
75-65-0	t-Butanol (TBA)	198	20.0	0.580	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.472U	10.0	0.472	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.468U	10.0	0.468	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	250U	2000	250	ug/L
75-85-4	tert-amyl alcohol (TAA)	521	40.0	2.03	ug/L
762-75-4	tert-butyl formate (TBF)	0.974U	100	0.974	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	97.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	100	99.5	ug/L	100	77 - 127
2037-26-5	Toluene d8	100	96	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	95.9	ug/L	96	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127837	SITE 8 TW-1	Water	02/07/2014 11:45	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 15:57	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	41.7	1.00	0.111	ug/L
108-88-3	Toluene	2.23	1.00	0.122	ug/L
100-41-4	Ethylbenzene	13.4	1.00	0.109	ug/L
1330-20-7	Xylene (total)	17.8	3.00	0.179	ug/L
91-20-3	Naphthalene	5.10	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 15:57	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	81.8	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127838	SITE 8 TW-3	Water	02/07/2014 11:55	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 16:20	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	26.0	1.00	0.111	ug/L
108-88-3	Toluene	5.75	1.00	0.122	ug/L
100-41-4	Ethylbenzene	81.1	1.00	0.109	ug/L
1330-20-7	Xylene (total)	88.9	3.00	0.179	ug/L
91-20-3	Naphthalene	25.0	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	2.35	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	48.5	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	51.3	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 16:20	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	46.8	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.6	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	48.5	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	51.3	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127839	SITE 23 TW-2	Water	02/05/2014 13:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 16:43	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	50.3	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 16:43	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	48.9	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	50.3	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127840	SITE 7 TW-1	Water	02/07/2014 15:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	02/16/2014 01:35	CLH	525627

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	12.9J	25.0	2.78	ug/L
108-88-3	Toluene	31.9	25.0	3.05	ug/L
100-41-4	Ethylbenzene	950	25.0	2.73	ug/L
1330-20-7	Xylene (total)	3740	75.0	4.47	ug/L
91-20-3	Naphthalene	639	125	4.41	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	1.94U	25.0	1.94	ug/L
107-06-2	1,2-Dichloroethane	2.90U	25.0	2.90	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1240	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	1250	1220	ug/L	98	77 - 127
2037-26-5	Toluene d8	1250	1260	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1170	ug/L	94	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	02/16/2014 01:35	CLH	525626

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	6.00U	125	6.00	ug/L
75-65-0	t-Butanol (TBA)	7.25U	250	7.25	ug/L
108-20-3	diisopropyl Ether (DIPE)	5.90U	125	5.90	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.85U	125	5.85	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	940U	2500	940	ug/L
64-17-5	Ethanol	3120U	25000	3120	ug/L
75-85-4	tert-amyl alcohol (TAA)	25.3U	500	25.3	ug/L
762-75-4	tert-butyl formate (TBF)	12.2U	1250	12.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1240	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	1250	1220	ug/L	98	77 - 127
2037-26-5	Toluene d8	1250	1260	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1170	ug/L	94	71 - 127

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 17:10	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
83-32-9	Acenaphthene	0.935J	10.0	0.365	ug/L
208-96-8	Acenaphthylene	0.369U	10.0	0.369	ug/L
120-12-7	Anthracene	0.215U	10.0	0.215	ug/L
56-55-3	Benzo(a)anthracene	0.246U	10.0	0.246	ug/L
50-32-8	Benzo(a)pyrene	0.170U	10.0	0.170	ug/L
205-99-2	Benzo(b)fluoranthene	0.185U	10.0	0.185	ug/L
191-24-2	Benzo(g,h,i)perylene	0.198U	10.0	0.198	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127840	SITE 7 TW-1	Water	02/07/2014 15:00	02/12/2014 09:50

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	1	02/14/2014 17:10	KCB	525527

CAS#	Parameter	Result	RDL	MDL	Units
207-08-9	Benzo(k)fluoranthene	0.275U	10.0	0.275	ug/L
218-01-9	Chrysene	0.129U	10.0	0.129	ug/L
53-70-3	Dibenz(a,h)anthracene	0.214U	10.0	0.214	ug/L
206-44-0	Fluoranthene	0.235U	10.0	0.235	ug/L
86-73-7	Fluorene	0.700J	10.0	0.358	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.159U	10.0	0.159	ug/L
85-01-8	Phenanthrene	0.189U	10.0	0.189	ug/L
129-00-0	Pyrene	0.406U	10.0	0.406	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	39.1	ug/L	78	40 - 110
321-60-8	2-Fluorobiphenyl	50	40.4	ug/L	81	50 - 110
1718-51-0	Terphenyl-d14	50	39.6	ug/L	79	50 - 135

EPA 8270D

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/12/2014 17:00	525429	EPA 3510C	5	02/17/2014 12:53	KCB	525676

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	596	50.0	2.33	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	50	43.6	ug/L	87	40 - 110
321-60-8	2-Fluorobiphenyl	50	45	ug/L	90	50 - 110
1718-51-0	Terphenyl-d14	50	46.2	ug/L	92	50 - 135

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127841	SITE 7 TW-2	Water	02/07/2014 15:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	02/15/2014 19:27	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	11.6	10.0	1.11	ug/L
108-88-3	Toluene	139	10.0	1.22	ug/L
100-41-4	Ethylbenzene	1570	10.0	1.09	ug/L
1330-20-7	Xylene (total)	3150	30.0	1.79	ug/L
91-20-3	Naphthalene	533	50.0	1.76	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.777U	10.0	0.777	ug/L
107-06-2	1,2-Dichloroethane	1.16U	10.0	1.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	500	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	500	488	ug/L	98	77 - 127
2037-26-5	Toluene d8	500	501	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	511	ug/L	102	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	02/15/2014 19:27	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.40U	50.0	2.40	ug/L
75-65-0	t-Butanol (TBA)	2.90U	100	2.90	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.36U	50.0	2.36	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	2.34U	50.0	2.34	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	376U	1000	376	ug/L
64-17-5	Ethanol	1250U	10000	1250	ug/L
75-85-4	tert-amyl alcohol (TAA)	10.1U	200	10.1	ug/L
762-75-4	tert-butyl formate (TBF)	4.87U	500	4.87	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	500	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	500	488	ug/L	98	77 - 127
2037-26-5	Toluene d8	500	501	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	511	ug/L	102	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127842	SITE 7 SB-1 (0-2)	Solid	02/07/2014 15:30	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5000	02/18/2014 18:15	JCK	525783

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	146U	14400	146	ug/Kg
108-88-3	Toluene	109000	14400	307	ug/Kg
100-41-4	Ethylbenzene	170000	14400	526	ug/Kg
1330-20-7	Xylene (total)	899000	28700	710	ug/Kg
91-20-3	Naphthalene	66500	14400	1110	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	126000	123000	ug/Kg	97	62 - 127
1868-53-7	Dibromofluoromethane	126000	125000	ug/Kg	99	65 - 130
2037-26-5	Toluene d8	126000	126000	ug/Kg	100	71 - 132
17060-07-0	1,2-Dichloroethane-d4	126000	140000	ug/Kg	111	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127843	SITE 6 TW-1	Water	02/07/2014 16:10	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 17:06	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.963J	1.00	0.111	ug/L
108-88-3	Toluene	0.631J	1.00	0.122	ug/L
100-41-4	Ethylbenzene	4.31	1.00	0.109	ug/L
1330-20-7	Xylene (total)	7.56	3.00	0.179	ug/L
91-20-3	Naphthalene	3.91J	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	50.9	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.3	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 17:06	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	50.9	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.3	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127844	SITE 6 TW-2	Water	02/07/2014 16:20	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 17:30	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.871J	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	6.61	1.00	0.109	ug/L
1330-20-7	Xylene (total)	20.9	3.00	0.179	ug/L
91-20-3	Naphthalene	5.76	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	48.6	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 17:30	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	48.6	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127845	SITE 6 SB-2 (0-2)	Solid	02/07/2014 17:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/16/2014 05:32	CEK	525628

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.034U	3.33	0.034	ug/Kg
108-88-3	Toluene	0.071U	3.33	0.071	ug/Kg
100-41-4	Ethylbenzene	2.91J	3.33	0.122	ug/Kg
1330-20-7	Xylene (total)	14.7	6.66	0.165	ug/Kg
91-20-3	Naphthalene	0.258U	3.33	0.258	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	29.4	29.6	ug/Kg	101	62 - 127
1868-53-7	Dibromofluoromethane	29.4	33.1	ug/Kg	112	65 - 130
2037-26-5	Toluene d8	29.4	29.4	ug/Kg	100	71 - 132
17060-07-0	1,2-Dichloroethane-d4	29.4	34.6	ug/Kg	118	62 - 125

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21402127847	TRIP BLANK	Water	02/07/2014 00:00	02/12/2014 09:50

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 17:53	LBH	525604

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.111U	1.00	0.111	ug/L
108-88-3	Toluene	0.122U	1.00	0.122	ug/L
100-41-4	Ethylbenzene	0.109U	1.00	0.109	ug/L
1330-20-7	Xylene (total)	0.179U	3.00	0.179	ug/L
91-20-3	Naphthalene	0.176U	5.00	0.176	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	1.00	0.078	ug/L
107-06-2	1,2-Dichloroethane	0.116U	1.00	0.116	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	48.2	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/15/2014 17:53	LBH	525603

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	0.240U	5.00	0.240	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.236U	5.00	0.236	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	5.00	0.234	ug/L
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	125U	1000	125	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.01U	20.0	1.01	ug/L
762-75-4	tert-butyl formate (TBF)	0.487U	50.0	0.487	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	48.2	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	71 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 525585 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB525585 1283866 Method Blank 02/14/2014 19:30 Water		LCS525585 1283867 LCS 02/14/2014 17:59 Water		LCSD525585 1283868 LCSD 02/14/2014 18:22 Water			
EPA 8260B		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	52.0	104	71 - 129	49.6	99	5	30
100-41-4	Ethylbenzene	0.109U	0.109	50.0	56.8	114	74 - 126	53.1	106	7	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	52.7	105	71 - 125	49.7	99	6	30
1330-20-7	Xylene (total)	0.179U	0.179	150	162	108	74 - 127	158	105	3	30
91-20-3	Naphthalene	0.176U	0.176	50.0	57.9	116	57 - 138	55.3	111	5	35
71-43-2	Benzene	0.111U	0.111	50.0	50.6	101	70 - 129	52.0	104	3	20
108-88-3	Toluene	0.122U	0.122	50.0	52.6	105	72 - 120	51.1	102	3	20
Surrogate											
460-00-4	4-Bromofluorobenzene	50.1	100	50	50.7	101	78 - 130	52.2	104		
1868-53-7	Dibromofluoromethane	47.6	95	50	50	100	77 - 127	49.5	99		
2037-26-5	Toluene d8	49.9	100	50	48.9	98	76 - 134	48.9	98		
17060-07-0	1,2-Dichloroethane-d4	48.1	96	50	49.9	100	71 - 127	50.9	102		

Analytical Batch 525604 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB525604 1283923 Method Blank 02/15/2014 11:43 Water		LCS525604 1283924 LCS 02/15/2014 09:33 Water		LCSD525604 1283925 LCSD 02/15/2014 12:34 Water			
EPA 8260B		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	53.9	108	71 - 129	48.4	97	11	30
100-41-4	Ethylbenzene	0.109U	0.109	50.0	58.2	116	74 - 126	54.1	108	7	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	52.3	105	71 - 125	46.9	94	11	30
1330-20-7	Xylene (total)	0.179U	0.179	150	172	115	74 - 127	156	104	10	30
91-20-3	Naphthalene	0.176U	0.176	50.0	56.7	113	57 - 138	48.8	98	15	35
71-43-2	Benzene	0.111U	0.111	50.0	54.7	109	70 - 129	50.8	102	7	20
108-88-3	Toluene	0.122U	0.122	50.0	55.0	110	72 - 120	49.8	100	10	20
Surrogate											
460-00-4	4-Bromofluorobenzene	49.6	99	50	50.6	101	78 - 130	51	102		
1868-53-7	Dibromofluoromethane	49.9	100	50	50.2	100	77 - 127	50	100		
2037-26-5	Toluene d8	48.3	97	50	49.9	100	76 - 134	48.5	97		
17060-07-0	1,2-Dichloroethane-d4	50	100	50	49.8	100	71 - 127	48.7	97		

GC/MS Volatiles Quality Control Summary

Analytical Batch 525611 Prep Batch N/A		Client ID MB525611 GCAL ID 1284056 Sample Type Method Blank Analytical Date 02/15/2014 14:17 Matrix Solid			LCS525611 1284057 LCS 02/15/2014 12:29 Solid			LCSD525611 1284058 LCSD 02/15/2014 12:52 Solid			
EPA 8260B		Units	ug/Kg	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
100-41-4	Ethylbenzene	9.15U	9.15	2500	2600	104	74 - 130	2350	94	10	30
1634-04-4	tert-Butyl methyl ether (MTBE)	3.05U	3.05	2500	2520	101	69 - 126	2600	104	3	30
1330-20-7	Xylene (total)	12.4U	12.4	7500	7700	103	71 - 129	6940	93	10	30
91-20-3	Naphthalene	19.4U	19.4	2500	2140	86	54 - 132	2090	84	2	35
71-43-2	Benzene	2.54U	2.54	2500	2710	108	73 - 128	2810	112	4	20
108-88-3	Toluene	5.35U	5.35	2500	2470	99	74 - 121	2380	95	4	20
Surrogate											
460-00-4	4-Bromofluorobenzene	2370	95	2500	2450	98	62 - 127	2390	96		
1868-53-7	Dibromofluoromethane	2580	103	2500	2690	108	65 - 130	2720	109		
2037-26-5	Toluene d8	2280	91	2500	2370	95	71 - 132	2310	92		
17060-07-0	1,2-Dichloroethane-d4	2580	103	2500	2500	100	62 - 125	2680	107		

Analytical Batch 525627 Prep Batch N/A		Client ID MB525627 GCAL ID 1284137 Sample Type Method Blank Analytical Date 02/15/2014 22:53 Matrix Water			LCS525627 1284138 LCS 02/15/2014 21:19 Water			LCSD525627 1284139 LCSD 02/15/2014 21:44 Water			
EPA 8260B		Units	ug/L	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
107-06-2	1,2-Dichloroethane	0.116U	0.116	50.0	51.8	104	71 - 129	50.6	101	2	30
100-41-4	Ethylbenzene	0.109U	0.109	50.0	58.8	118	74 - 126	54.2	108	8	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.078U	0.078	50.0	53.5	107	71 - 125	50.2	100	6	30
1330-20-7	Xylene (total)	0.179U	0.179	150	175	117	74 - 127	161	107	8	30
91-20-3	Naphthalene	0.176U	0.176	50.0	48.3	97	57 - 138	46.2	92	4	35
71-43-2	Benzene	0.111U	0.111	50.0	58.3	117	70 - 129	54.2	108	7	20
108-88-3	Toluene	0.122U	0.122	50.0	56.3	113	72 - 120	53.0	106	6	20
Surrogate											
460-00-4	4-Bromofluorobenzene	48.3	97	50	51.4	103	78 - 130	50.7	101		
1868-53-7	Dibromofluoromethane	48.8	98	50	49.9	100	77 - 127	50.1	100		
2037-26-5	Toluene d8	47.8	96	50	50.4	101	76 - 134	48.9	98		
17060-07-0	1,2-Dichloroethane-d4	48.1	96	50	48.3	97	71 - 127	48.7	97		

GC/MS Volatiles Quality Control Summary

Analytical Batch 525628 Prep Batch N/A		Client ID MB525628 GCAL ID 1284140 Sample Type Method Blank Analytical Date 02/15/2014 23:33 Matrix Solid			LCS 525628 1284141 LCS 02/15/2014 22:27 Solid			LCSD 525628 1284142 LCSD 02/15/2014 22:49 Solid			
EPA 8260B		Units Result	ug/Kg RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
100-41-4	Ethylbenzene	0.183U	0.183	50.0	45.5	91	74 - 130	46.5	93	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.061U	0.061	50.0	48.0	96	69 - 126	50.6	101	5	30
1330-20-7	Xylene (total)	0.247U	0.247	150	142	95	71 - 129	146	97	3	30
91-20-3	Naphthalene	1.36J	0.388	50.0	45.5	91	54 - 132	48.4	97	6	35
71-43-2	Benzene	0.051U	0.051	50.0	45.2	90	73 - 128	46.3	93	2	20
108-88-3	Toluene	0.107U	0.107	50.0	44.3	89	74 - 121	45.5	91	3	20
Surrogate											
460-00-4	4-Bromofluorobenzene	53.6	107	50	51.1	102	62 - 127	50.4	101		
1868-53-7	Dibromofluoromethane	52.5	105	50	50.9	102	65 - 130	51.4	103		
2037-26-5	Toluene d8	53.6	107	50	50.2	100	71 - 132	50.6	101		
17060-07-0	1,2-Dichloroethane-d4	53.5	107	50	50.8	102	62 - 125	51.4	103		

Analytical Batch 525712 Prep Batch N/A		Client ID MB525712 GCAL ID 1284456 Sample Type Method Blank Analytical Date 02/17/2014 13:26 Matrix Solid			LCS 525712 1284457 LCS 02/17/2014 06:58 Solid			LCSD 525712 1284458 LCSD 02/17/2014 07:17 Solid			
EPA 8260B		Units Result	ug/Kg RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
100-41-4	Ethylbenzene	9.15U	9.15	2500	2720	109	74 - 130	2530	101	7	30
1634-04-4	tert-Butyl methyl ether (MTBE)	3.05U	3.05	2500	2740	110	69 - 126	2720	109	1	30
1330-20-7	Xylene (total)	12.4U	12.4	7500	8000	107	71 - 129	7350	98	8	30
91-20-3	Naphthalene	19.4U	19.4	2500	2860	114	54 - 132	2720	109	5	35
71-43-2	Benzene	2.54U	2.54	2500	2660	106	73 - 128	2540	102	5	20
108-88-3	Toluene	5.35U	5.35	2500	2570	103	74 - 121	2400	96	7	20
Surrogate											
460-00-4	4-Bromofluorobenzene	2390	96	2500	2440	98	62 - 127	2430	97		
1868-53-7	Dibromofluoromethane	2470	99	2500	2560	102	65 - 130	2550	102		
2037-26-5	Toluene d8	2540	102	2500	2450	98	71 - 132	2420	97		
17060-07-0	1,2-Dichloroethane-d4	2460	98	2500	2510	100	62 - 125	2590	104		

GC/MS Volatiles Quality Control Summary

Analytical Batch 525783 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	MB525783 1284762 Method Blank 02/18/2014 10:50 Solid		LCS525783 1284763 LCS 02/18/2014 07:19 Solid			LCSD525783 1284764 LCSD 02/18/2014 07:39 Solid				
EPA 8260B			Units	ug/Kg	Spike	Result	% R	Control	Result	% R	RPD	RPD
			Result	RDL	Added			Limits % R				Limit
100-41-4	Ethylbenzene		9.15U	9.15	2500	2720	109	74 - 130	2490	100	9	30
1634-04-4	tert-Butyl methyl ether (MTBE)		3.05U	3.05	2500	2700	108	69 - 126	2780	111	3	30
1330-20-7	Xylene (total)		12.4U	12.4	7500	7990	107	71 - 129	7290	97	9	30
91-20-3	Naphthalene		19.4U	19.4	2500	2660	106	54 - 132	2710	108	2	35
71-43-2	Benzene		2.54U	2.54	2500	2660	106	73 - 128	2560	102	4	20
108-88-3	Toluene		5.35U	5.35	2500	2570	103	74 - 121	2370	95	8	20
Surrogate												
460-00-4	4-Bromofluorobenzene		2390	96	2500	2510	100	62 - 127	2390	96		
1868-53-7	Dibromofluoromethane		2530	101	2500	2590	104	65 - 130	2630	105		
2037-26-5	Toluene d8		2450	98	2500	2460	98	71 - 132	2460	98		
17060-07-0	1,2-Dichloroethane-d4		2580	103	2500	2480	99	62 - 125	2590	104		

GC/MS Volatiles Quality Control Summary

Analytical Batch 525584 Prep Batch N/A		Client ID MB525584 GCAL ID 1283863 Sample Type Method Blank Analytical Date 02/14/2014 19:30 Matrix Water			LCS 525584 1283864 LCS 02/14/2014 17:59 Water			LCSD 525584 1283865 LCSD 02/14/2014 18:22 Water			
EPA 8260B		Units	ug/L	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
994-05-8	t-amyl methyl ether (TAME)	0.240U	0.240	50.0	51.9	104	50 - 150	50.6	101	3	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	52.5	105	50 - 150	51.9	104	1	50
108-20-3	diisopropyl Ether (DIPE)	0.236U	0.236	50.0	52.5	105	50 - 150	51.4	103	2	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	0.234	50.0	51.0	102	50 - 150	49.4	99	3	50
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2310	91	50 - 150	2400	94	4	50
64-17-5	Ethanol	125U	125	25200	23400	93	50 - 150	25400	101	8	50
75-85-4	tert-amyl alcohol (TAA)	1.01U	1.01	200	206	103	50 - 150	202	101	2	50
762-75-4	tert-butyl formate (TBF)	0.487U	0.487	50.0	48.8	98	50 - 150	46.9	94	4	50
Surrogate											
460-00-4	4-Bromofluorobenzene	50.1	100	50	50.7	101	78 - 130	52.2	104		
1868-53-7	Dibromofluoromethane	47.6	95	50	50	100	77 - 127	49.5	99		
2037-26-5	Toluene d8	49.9	100	50	48.9	98	76 - 134	48.9	98		
17060-07-0	1,2-Dichloroethane-d4	48.1	96	50	49.9	100	71 - 127	50.9	102		

Analytical Batch 525603 Prep Batch N/A		Client ID MB525603 GCAL ID 1283920 Sample Type Method Blank Analytical Date 02/15/2014 11:43 Matrix Water			LCS 525603 1283921 LCS 02/15/2014 09:33 Water			LCSD 525603 1283922 LCSD 02/15/2014 12:34 Water			
EPA 8260B		Units	ug/L	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
994-05-8	t-amyl methyl ether (TAME)	0.240U	0.240	50.0	48.9	98	50 - 150	50.0	100	2	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	49.3	99	50 - 150	60.3	121	20	50
108-20-3	diisopropyl Ether (DIPE)	0.236U	0.236	50.0	50.8	102	50 - 150	50.7	101	0	50
637-92-3	Ethyl tert-butyl ether (ETBE)	0.234U	0.234	50.0	50.8	102	50 - 150	49.3	99	3	50
624-95-3	Ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2350	92	50 - 150	2640	104	12	50
64-17-5	Ethanol	125U	125	25200	25300	100	50 - 150	28100	112	10	50
75-85-4	tert-amyl alcohol (TAA)	1.01U	1.01	200	182	91	50 - 150	239	120	27	50
762-75-4	tert-butyl formate (TBF)	0.487U	0.487	50.0	46.0	92	50 - 150	50.2	100	9	50
Surrogate											
460-00-4	4-Bromofluorobenzene	49.6	99	50	50.6	101	78 - 130	51	102		
1868-53-7	Dibromofluoromethane	49.9	100	50	50.2	100	77 - 127	50	100		

GC/MS Volatiles Quality Control Summary

Analytical Batch 525603 Prep Batch N/A		Client ID MB525603 GCAL ID 1283920 Sample Type Method Blank Analytical Date 02/15/2014 11:43 Matrix Water		LCS 525603 1283921 LCS 02/15/2014 09:33 Water			LCSD 525603 1283922 LCSD 02/15/2014 12:34 Water				
EPA 8260B		Units	ug/L	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
2037-26-5	Toluene d8	48.3	97	50	49.9	100	76 - 134	48.5	97		
17060-07-0	1,2-Dichloroethane-d4	50	100	50	49.8	100	71 - 127	48.7	97		

Analytical Batch 525626 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB525626 1284134 Method Blank 02/15/2014 22:53 Water		LCS525626 1284135 LCS 02/15/2014 21:19 Water			LCSD525626 1284136 LCSD 02/15/2014 21:44 Water				
EPA 8260B				Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
994-05-8	t-amyl methyl ether (TAME)			0.240U	0.240	50.0	55.8	112	50 - 150	47.7	95	16	50
75-65-0	t-Butanol (TBA)			0.290U	0.290	50.0	57.2	114	50 - 150	49.1	98	15	50
108-20-3	diisopropyl Ether (DIPE)			0.236U	0.236	50.0	55.9	112	50 - 150	48.0	96	15	50
637-92-3	Ethyl tert-butyl ether (ETBE)			0.234U	0.234	50.0	54.6	109	50 - 150	47.2	94	15	50
624-95-3	Ethyl tert-butanol (ETBA)			37.6U	37.6	2550	2350	92	50 - 150	2150	84	9	50
64-17-5	Ethanol			125U	125	25200	24200	96	50 - 150	23700	94	2	50
75-85-4	tert-amyl alcohol (TAA)			1.01U	1.01	200	199	100	50 - 150	178	89	11	50
762-75-4	tert-butyl formate (TBF)			0.487U	0.487	50.0	49.5	99	50 - 150	43.3	87	13	50
Surrogate													
460-00-4	4-Bromofluorobenzene			48.3	97	50	51.4	103	78 - 130	50.7	101		
1868-53-7	Dibromofluoromethane			48.8	98	50	49.9	100	77 - 127	50.1	100		
2037-26-5	Toluene d8			47.8	96	50	50.4	101	76 - 134	48.9	98		
17060-07-0	1,2-Dichloroethane-d4			48.1	96	50	48.3	97	71 - 127	48.7	97		

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch 525527 Prep Batch 525429 Prep Method EPA 3510C		Client ID MB525429 GCAL ID 1283035 Sample Type Method Blank Prep Date 02/12/2014 17:00 Analytical Date 02/14/2014 12:46 Matrix Water			LCS525429 1283036 LCS 02/12/2014 17:00 02/14/2014 13:02 Water			LCSD525429 1283037 LCSD 02/12/2014 17:00 02/14/2014 13:19 Water			
EPA 8270D		Units	ug/L	Spike	Result	% R	Control	Result	% R	RPD	RPD
		Result	RDL	Added			Limits % R				Limit
208-96-8	Acenaphthylene	0.369U	0.369	50.0	39.7	79	55 - 120	38.8	78	2	30
120-12-7	Anthracene	0.215U	0.215	50.0	40.7	81	58 - 120	42.1	84	3	30
56-55-3	Benzo(a)anthracene	0.246U	0.246	50.0	41.6	83	56 - 120	42.3	85	2	30
205-99-2	Benzo(b)fluoranthene	0.185U	0.185	50.0	44.3	89	55 - 120	45.0	90	2	30
207-08-9	Benzo(k)fluoranthene	0.275U	0.275	50.0	44.8	90	49 - 121	45.8	92	2	30
191-24-2	Benzo(g,h,i)perylene	0.198U	0.198	50.0	33.3	67	44 - 132	36.9	74	10	30
50-32-8	Benzo(a)pyrene	0.170U	0.170	50.0	41.0	82	56 - 120	41.9	84	2	30
218-01-9	Chrysene	0.129U	0.129	50.0	40.7	81	58 - 120	43.4	87	6	30
53-70-3	Dibenz(a,h)anthracene	0.214U	0.214	50.0	35.5	71	50 - 138	36.4	73	3	30
206-44-0	Fluoranthene	0.235U	0.235	50.0	44.3	89	55 - 120	44.2	88	0	30
86-73-7	Fluorene	0.358U	0.358	50.0	42.6	85	54 - 120	40.8	82	4	30
193-39-5	Indeno(1,2,3-cd)pyrene	0.159U	0.159	50.0	27.1	54	43 - 133	32.6	65	18	30
91-20-3	Naphthalene	0.466U	0.466	50.0	36.2	72	44 - 120	38.4	77	6	30
85-01-8	Phenanthrene	0.189U	0.189	50.0	42.1	84	58 - 120	41.8	84	1	30
83-32-9	Acenaphthene	0.365U	0.365	50.0	39.6	79	52 - 120	39.3	79	1	30
129-00-0	Pyrene	0.406U	0.406	50.0	40.6	81	54 - 120	41.7	83	3	30
Surrogate											
4165-60-0	Nitrobenzene-d5	39.8	80	50	37.8	76	40 - 110	39.7	79		
321-60-8	2-Fluorobiphenyl	37.9	76	50	39.6	79	50 - 110	38.3	77		
1718-51-0	Terphenyl-d14	45.5	91	50	41.7	83	50 - 135	41.9	84		

Analytical Batch 525676 Prep Batch 525568 Prep Method EPA 3550C	Client ID MB525568 GCAL ID 1283704 Sample Type Method Blank Prep Date 02/15/2014 02:30 Analytical Date 02/17/2014 09:35 Matrix Solid	LCS525568 1283705 LCS 02/15/2014 02:30 02/17/2014 09:52 Solid			LCSD525568 1283706 LCSD 02/15/2014 02:30 02/17/2014 10:08 Solid						
EPA 8270D		Units Result	ug/Kg RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
208-96-8	Acenaphthylene	6.75U	6.75	1670	1410	85	53 - 120	1330	80	6	30
120-12-7	Anthracene	6.79U	6.79	1670	1490	89	52 - 120	1370	82	8	30

GC/MS Semi-Volatiles Quality Control Summary

Analytical Batch 525676 Prep Batch 525568 Prep Method EPA 3550C		Client ID MB525568 GCAL ID 1283704 Sample Type Method Blank Prep Date 02/15/2014 02:30 Analytical Date 02/17/2014 09:35 Matrix Solid	LCS525568 1283705 LCS 02/15/2014 02:30 02/17/2014 09:52 Solid					LCSD525568 1283706 LCSD 02/15/2014 02:30 02/17/2014 10:08 Solid			
EPA 8270D		Units Result	ug/Kg RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
56-55-3	Benzo(a)anthracene	6.16U	6.16	1670	1500	90	48 - 120	1330	80	12	30
205-99-2	Benzo(b)fluoranthene	6.52U	6.52	1670	1620	97	31 - 130	1520	91	6	30
207-08-9	Benzo(k)fluoranthene	5.10U	5.10	1670	1720	103	36 - 122	1620	97	6	30
191-24-2	Benzo(g,h,i)perylene	4.99U	4.99	1670	1210	73	29 - 134	1060	64	13	30
50-32-8	Benzo(a)pyrene	4.14U	4.14	1670	1500	90	44 - 120	1370	82	9	30
218-01-9	Chrysene	7.15U	7.15	1670	1540	92	51 - 120	1340	80	14	30
53-70-3	Dibenz(a,h)anthracene	4.74U	4.74	1670	1250	75	27 - 129	1120	67	11	30
206-44-0	Fluoranthene	5.37U	5.37	1670	1500	90	39 - 120	1410	85	6	30
86-73-7	Fluorene	5.95U	5.95	1670	1550	93	48 - 120	1400	84	10	30
193-39-5	Indeno(1,2,3-cd)pyrene	7.95U	7.95	1670	1110	67	43 - 132	1050	63	6	30
91-57-6	2-Methylnaphthalene	4.76U	4.76	1670	1610	97	43 - 120	1470	88	9	30
91-20-3	Naphthalene	10.3U	10.3	1670	1430	86	48 - 120	1310	79	9	30
85-01-8	Phenanthrene	7.58U	7.58	1670	1480	89	53 - 120	1370	82	8	30
90-12-0	1-Methylnaphthalene	6.10U	6.10	1670	1560	94	37 - 120	1420	85	9	30
106-46-7	1,4-Dichlorobenzene	8.82U	8.82	1670	1430	86	42 - 120	1300	78	10	30
621-64-7	n-Nitrosodi-n-propylamine	14.4U	14.4	1670	1420	85	46 - 120	1270	76	11	30
120-82-1	1,2,4-Trichlorobenzene	10.5U	10.5	1670	1560	94	46 - 120	1390	83	12	30
83-32-9	Acenaphthene	10.1U	10.1	1670	1490	89	50 - 120	1370	82	8	30
121-14-2	2,4-Dinitrotoluene	6.72U	6.72	1670	1680	101	45 - 120	1570	94	7	30
129-00-0	Pyrene	4.63U	4.63	1670	1640	98	38 - 136	1500	90	9	30
Surrogate											
4165-60-0	Nitrobenzene-d5	1200	72	1670	1400	84	35 - 100	1290	77		
321-60-8	2-Fluorobiphenyl	1310	79	1670	1470	88	45 - 105	1330	80		
1718-51-0	Terphenyl-d14	1490	89	1670	1750	105	30 - 125	1560	94		

Access Analytical - Chain of Custody Record

Project Work Order #

Sales Order #

PO #

Access Quote #

Laboratory ID:

GCAL

Company Name:

Terracon

Report To:

Regan Norris

Address:

521 Clarkson Rd

City:

Columbus

State:

SC

Zip:

29229

Phone:

803-741-8000

Fax:

Email:

rnnorris

Project ID:

Pamlico R/W

Sampled By:

RWW (Regan Norris)

Preservative:
(*see codes)

1 5 0

Container Type:
(*see codes)

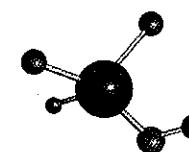
6 4 4

REQUESTED LAB ANALYSIS:

BTEX-NAP-MIBZ-1,2-DCA-CX4

BTEX-NAP

PAHS

ACCESS
ANALYTICAL, INC.7478 Carlisle Street
Irmo, SC 29063Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

Preservative Codes (place corresponding # in block above analysis field)
 0 = None, 1 = HCl, 2 = HNO₃, 3 = H₂SO₄, 4 = NaOH, 5 = Na₂S₂O₈,
 6 = Method 5035 sat. w. NaHSO₄, 7 = CH₃COOH, 8 = NaOH/ZnOAC, 9 = H₂PO₄

Matrix Codes (place corresponding code in matrix column)
 GW = ground water, WW = waste water, DW = drinking water, S = soil,
 SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other
 (specify in comments section)

Program Area Codes CWA = Clean Water Act (for wastewaters), SDWA =
 Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous
 Wastes (for soils, ground waters and waste samples)

Container Type G = Glass, P = Plastic

NOTES / COMMENTS

(if sample is a composite please use space below to note start/finish times & dates)

Sample ID/Description	Date Collected	Time Collected	Type (lab codes)	Matrix (lab codes)	Program Area (lab codes)	TOTAL # of samples
Site 17 TW-1	2-6-14	9:00	G	GW	SHW	2
Site 17 TW-2		9:15	G	GW	SHW	2
Site 17 SB-2 (2-4)		9:20	G	S	SHW	4
Site 18 SB-2 (6-8)		10:15	G	S	SHW	
Site 18 TW-1		9:40	G	GW	SHW	2
Site 18 TW-2		9:50	G	GW	SHW	2
Site 14 TW-1		11:15	G	GW	SHW	2
Site 14 TW-2		11:30	G	GW	SHW	2
Site 14 TW-3		11:45	G	GW	SHW	2
Site 14 SB-2 (2-4)		12:30	G	S	SHW	4

Client ID: 4565 - Access Analytical

SDG: 214021278

Due Date: 02/19/14



Turnaround Time:

☒ Standard☐ RUSH*

*Date Required:

(For rush work, results
emailed/faxed by end of busi-
ness day on date required)

Project Location:

☒ SC☐ NC☐ Other

(specify)

Relinquished By

Received By

Date

(mm-dd-yy)

Time

(24HR)

Samples Rec'd

on/acc

Sample Temp. Upon

Receipt (°C)

2/10/14

1600

☒ Y ☐ N

____ (°C) ____ (N/A)

2/10/14

1700

☐ Y ☐ N

____ (°C) ____ (N/A)

2/12/14

9:50

☒ Y ☐ N

28 (°C) 824 (N/A)

See Reverse for Terms and Conditions

Access Analytical - Chain of Custody Record

Project Work Order #

Sales Order #

PO #

Access Quote #

Laboratory ID: GCAL

Company Name:

Terracon Consultants

Report To:

Regan W. Harris

Address:

521 Clemson Rd

City:

Columbia

State:

SC

Zip:

29221

Phone:

803-741-9000

Fax:

803-741-9900

Email:

rwharris@terracon.com

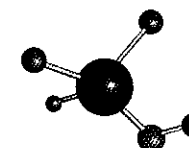
Project ID:

Paplico Hwy / R/W Widening

Sampled By:

Regan HarrisPreservative:
(*see codes)1 5 0Container Type:
(*see codes)4 4 4

REQUESTED LAB ANALYSIS:

STEEL, METAL, WIRE, 1/2" x 1/4" x 1/8"BTEX, NaphPAHSACCESS
ANALYTICAL, INC.7478 Carlisle Street
Irmo, SC 29063Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field):
0 = None, 1 = HCL, 2 = HNO₃, 3 = H₂SO₄, 4 = NaOH, 5 = Na₂S₂O₈,
6 = Method 5035 sat. w/ NaHSO₄ & CH₃OH, 7 = NaOH/ZnOAC, 8 = H₃PO₄.*Matrix Codes (place corresponding code in matrix column):
GW = ground water, WW = waste water, DW = drinking water, S = soil,
SL = sludge, A = air, IW = industrial waste, WO = waste oil, OT = other
(specify in comments section)*Program Area Codes: CWA = Clean Water Act (for wastewaters), SDWA =
Safe Drinking Water Act (for drinking waters), SHW = Solid and Hazardous
Wastes (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

NOTES / COMMENTS

(if sample is a composite please use space below to note start/finish times & dates)

Sample ID/Description	Date Collected	Time Collected	Type (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	% of container analyzed	Container Collected	Container Analyzed	Per Container	Per Sample	Analysis
Site 9 TW-1	2-7-14	1400	G	GW	SHW	2						2
Site 9 TW-2	2-7-14	1415	G	GW	SHW	2						2
Site 8 RW												
Site 8 RW												
Site 9 SB-1 (0-2)	2-7-14	1435	G	S	SHW	4						4
Site 22 TW-1	2-5-14	1135		GW		2						2
Site 22 TW-2		1215		GW		3						2
Site 20 TW-2		1700		GW		1						1
Site 21 TW-4		1600		GW		1						1
Site 23 TW-1		1305		GW		2						2

Client ID: 4565 - Access Analytical

SDG: 214021278

Due Date: 02/19/14



Turnaround Time:

☒ Standard
☐ RUSH*

*Date Required: _____

(For rush work, results
emailed/faxed by end of busi-
ness day on date required)

Project Location:

☒ SC☐ NC☐ Other

(specify) _____

Relinquished By

Received By

Date (mm/dd/yy)

Time (24HR)

Samples Rec'd on Ice

Sample Temp. Upon Receipt (°C)

<u>[Signature]</u>	<u>[Signature]</u>	2/10/14	1600	Y N	(°C)	(N/A)
<u>[Signature]</u>	<u>[Signature]</u>	2/10/14	1700	Y N	(°C)	(N/A)
<u>[Signature]</u>	<u>[Signature]</u>	2/11/14 2/12/14	9:50	Y N	23 (°C)	524 (N/A)
<u>[Signature]</u>	<u>[Signature]</u>	2/12/14		Y N	(°C)	(N/A)



SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 214021278			CHECKLIST			YES	NO	NA
Client 4565 - Access Analytical	Transport Method FEDEX		Were all samples received using proper thermal preservation?			☒	☐	☐
			When used, were all custody seals intact?			☒	☐	☐
			Were all samples received in proper containers?			☒	☐	☐
Profile Number 78454	Received By Brown, Aaron D.		Were all samples received using proper chemical preservation?			☒	☐	☐
			Was preservative added to any container at the lab?			☐	☒	☐
			Were all containers received in good condition?			☒	☐	☐
Line Item(s) 1 - Soils PAH/BTEX/Naphthalene 2 - Water BTEX//Naph/MTBE/1,2- DCA/PAH	Receive Date(s) 02/12/14		Were all VOA vials received with no head space?			☒	☐	☐
			Do all sample labels match the Chain of Custody?			☒	☐	☐
			Did the Chain of Custody list the sampling technician?			☒	☐	☐
			Was the COC maintained i.e. all signatures, dates and time of receipt included?			☒	☐	☐
COOLERS			DISCREPANCIES			LAB PRESERVATIONS		
Airbill	Thermometer ID: E24	Temp(°C)	None			None		
5035 7503 9678		2.3						
NOTES								



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment



**B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274**

JAN 30 2015

Re: Site-Specific Work Plan Directive

Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon), 4925
Pamplico Highway, Florence, SC
UST Permit #03423
Release No. 1 reported February 26, 2002
Monitoring Well Installation and Groundwater Sampling Report received May 14, 2009
Florence County

Dear Sir or Madam:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report. The report indicates the presence of chemicals of concern in the groundwater.

To determine what risk the referenced release may pose to the environment and public health and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0 is necessary. This scope of work must be conducted in accordance with the UST QAPP and in compliance with all applicable regulations. Monitoring wells MW-1 through MW-22, DW-1, and DW-2 associated with the release must be purged and sampled. In addition, surface water from the ditch running parallel to Pamplico Highway in the vicinity of monitoring well MW-13 should be sampled.

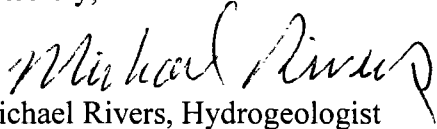
Laboratory analyses should be performed for BTEX, naphthalene, MtBE, 1,2-DCA, the 8 oxygenates, and EDB. A copy of the QAPP Revision 2.0 for the UST Division is available at: http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Your contractor must complete and submit the Site-Specific Work Plan and associated Cost Agreement for the aforementioned scope of work to the UST Division within thirty (30) days of the date of this letter. The Site-Specific Work Plan form may be found at <http://www.scdhec.gov/library/D-0653.pdf>. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that new SUPERB rates became effective May 15, 2014 and that technical and financial pre-approval from the Agency must be issued before work begins.

B. W. Stokes Oil Company, Inc.
Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon); UST Permit
#03423
Page 2

On all correspondence regarding this site, please reference **UST Permit #03423**. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Michael Rivers". The signature is fluid and cursive, with the first name "Michael" and last name "Rivers" clearly legible.

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Davis & Brown, P.O. Box 15038, Quinby, SC 29506
Technical File

MR/SSWP01 27.15

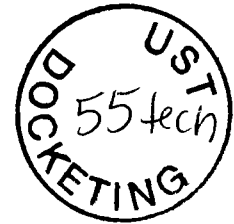


W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

MR EDWARD KUHN
CONTRACT PROGRAM FOR PHILLIPS 66
C/O CRA INC
1338 HUNDRED OAKS DR
SUITE A
CHARLOTTE NC 28217

JAN 30 2015



Re: **Site Specific Work Plan Request**
Circle K #2705137, 8500 Two Notch Road, Columbia, SC
UST Permit # 10924
Release reported March 17, 1999
Monitoring report received May 21, 2013
Richland County

Dear Mr. Kuhn:

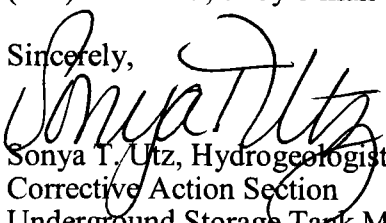
The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Cardno as your contractor. The next appropriate scope of work at the site is a comprehensive groundwater sampling event.

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) revision 2.0 and must be conducted in compliance with all applicable regulations. Groundwater samples should be collected from all monitoring wells and recovery wells associated with the release and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, and the 8 oxygenates. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks. A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf

Please have your contractor complete and submit the Site Specific Work Plan and Cost Agreement within thirty (30) days of the date of this letter. The Site Specific Work Plan form can be found at <http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST>. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial preapproval from the Agency must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #10924. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0634, by fax at (803) 898-0673, or by e-mail at utzst@dhc.sc.gov.

Sincerely,


Sonya T. Utz, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Cardno, 400 Northeast Dr., Unit Q, Columbia, SC 29203-5182
Technical File



Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: MICHAEL RIVERS (SCDHEC Project Manager)
From: JODY RICKS (Contractor Project Manager)
Contractor: DAVIS & BROWN/NACC UST Contractor Certification Number: 79

Facility Name: O. H. MEGGS UST Permit #: 03423

Facility Address: 4925 PAMPLICO HWY FLORENCE SC

Responsible Party: B W STOKES OIL COMPANY Phone: 843-669-6818

RP Address: PO BOX 274 FLORENCE SC 29503

Property Owner (if different): _____

Property Owner Address: _____

Current Use of Property: CLOSED CONVENIENCE STORE

Scope of Work (Please check all that apply)

- | | | | |
|---------------------------------|---|--|------------------------------|
| ☐ IGWA | ☐ Tier II | ☒ Groundwater Sampling | ☐ GAC |
| ☐ Tier I | ☐ Monitoring Well Installation | ☐ Other _____ | |

Analyses (Please check all that apply)

Groundwater/Surface Water:

- | | | | |
|--|--|--------------------------------------|---|
| ☒ BTEXNMDCA (8260B) | ☐ Lead | ☐ BOD | ☐ Methane |
| ☒ Oxygenates (8260B) | ☐ 8 RCRA Metals | ☐ Nitrate | ☐ Ethanol |
| ☒ EDB (8011) | ☐ TPH | ☐ Sulfate | ☐ Dissolved Iron |
| ☐ PAH (8270D) | ☐ pH | ☐ Other _____ | |

Soil:

- | | | | |
|--------------------------------|--|--|-------------------------------------|
| ☐ BTEXN | ☐ 8 RCRA Metals | ☐ TPH-DRO (3550B/8015B) | ☐ Grain Size |
| ☐ PAH | ☐ Oil & Grease (9071) | ☐ TPH-GRO (5030B/8015B) | ☐ TOC |

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ Water Supply Wells	_____ Air	1 _____ Field Blank
24 _____ Monitoring Wells	1 _____ Surface Water	1 _____ Duplicate	1 _____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point

of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point

of deep wells: _____ Estimated Footage: _____ feet per point

of recovery wells: _____ Estimated Footage: _____ feet per point

Monitoring Well development method (consistent with SOP): _____

Comments, if warranted:

UST Permit #: 03423 Facility Name: O. H. MEGGS

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 10 Field Work Completion: 12
Report Submittal: 30 # of Copies Provided to Property Owners: 1

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: Tons Purge Water: 90 Gallons
Drilling Fluids: Gallons Free-Phase Product: Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

YES Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

____ Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.

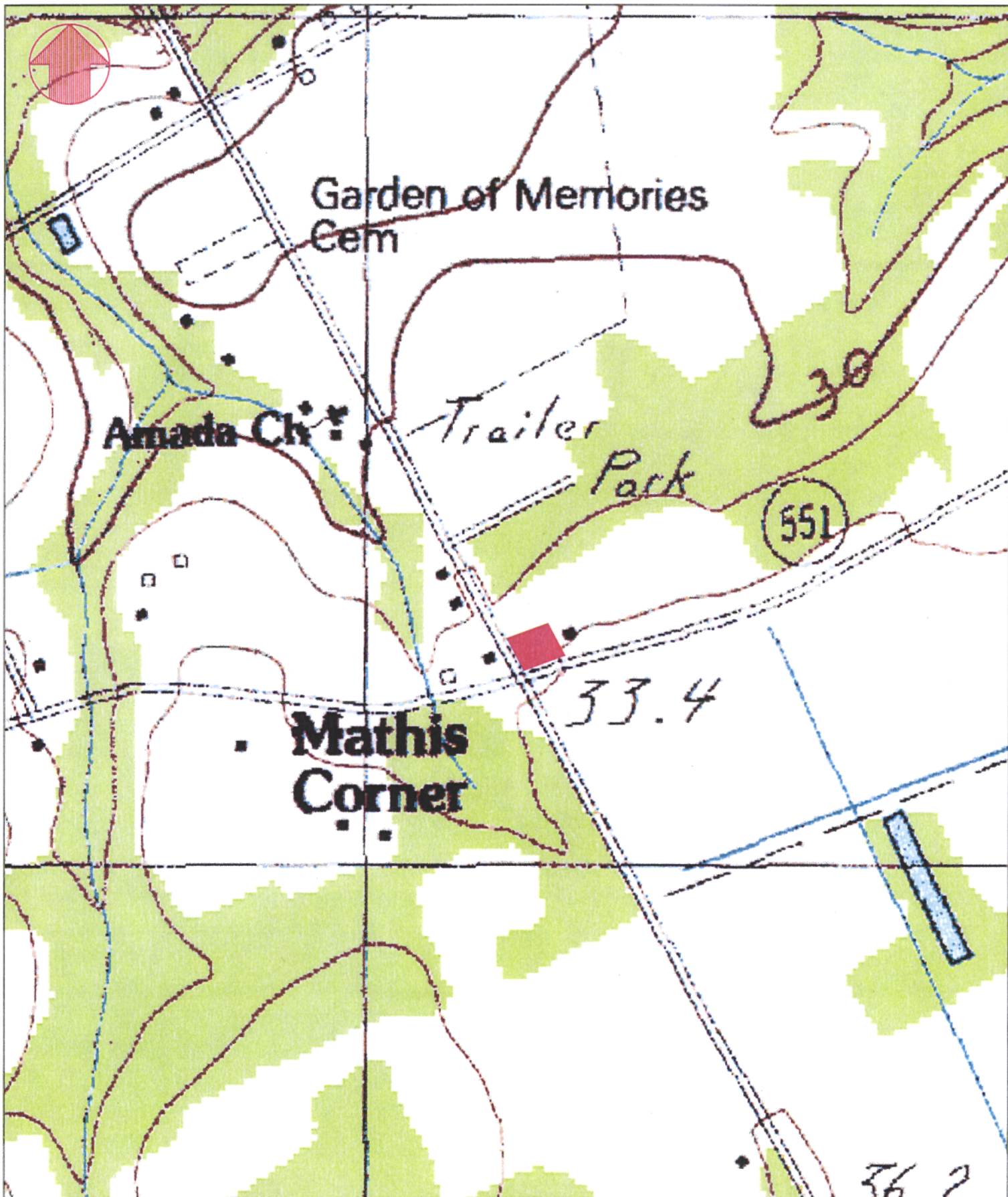
Name of Well Driller: _____
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



DAVIS & BROWN

ENGINEERING • ENVIRONMENTAL • O&M SERVICES
www.NACCCDB.com
ph: (843)665-6746 fax: (843)629-1444

O. H. MEGGS EXXON

UST# 03423

USGS TOPO MAP

250 0 250 500



SCALE

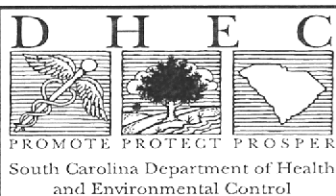
EVERGREEN QUAD.



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 ENGINEERING • ENVIRONMENTAL • O&M SERVICES
 www.NACCDB.com
 ph: (843)665-6746 fax: (843)629-1444

O. H. MEGGS EXXON
 4925 PAMPLICO HWY.
 FLORENCE SC
 SITE BASE MAP UST# 03423

30 0 30 60
 SCALE
 02\27\14



ASSESSMENT COMPONENT COST AGREEMENT

SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
May 15, 2014

Facility Name: O H MEGGS

UST Permit #: 03423

Cost Agreement #: _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map		each	\$70.00	\$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
2. A1. Receptor Survey *		each	\$551.00	\$0.00
3. Survey (500 ft x 500 ft)				
A1. Comprehensive Survey		each	\$1,040.00	\$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	\$1,300.00	\$0.00
2B. > 10 meters below grade		each	\$2,310.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00	\$0.00
4. Mob/Demob				
A1. Equipment	1	each	\$1,020.00	\$0.00
B1. Personnel		each	\$423.00	\$423.00
C1. Adverse Terrain Vehicle		each	\$500.00	\$0.00
5. A1. Soil Borings (hand auger)*		foot	\$5.00	\$0.00
6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)*				
AA. Standard		per foot	\$15.00	\$0.00
C1. Fractured Rock		per foot	\$20.20	\$0.00
7. A1. Soil Leachability Model		each	\$60.00	\$0.00
8. Abandonment (per foot)*				
A1. 2" diameter or less		per foot	\$3.10	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$4.50	\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00	\$0.00
9. Well Installation (per foot)*				
A1. Water Table (hand augered)		per foot	\$10.60	\$0.00
B1. Water Table (drill rig)		per foot	\$38.00	\$0.00
CC. Telescoping		per foot	\$50.00	\$0.00
DD. Rock Drilling		per foot	\$58.00	\$0.00
E1. 2" Rock Coring		per foot	\$30.90	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40	\$0.00
HH. Recovery Well (4" diameter)		per foot	\$45.00	\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00	\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00	\$0.00
K. Re-develop Existing Well		per foot	\$11.00	\$0.00
10. Groundwater Sample Collection / Gauge Depth to Water or Product *				
A1. Groundwater Purge	24	per well/rec	\$60.00	\$1,440.00
B1. Air or Vapors		per rec	\$12.00	\$0.00
C1. Water Supply	1	per well/rec	\$22.00	\$22.00
D1. Groundwater No Purge or Dup	1	per well/rec	\$28.00	\$28.00
E1. Gauge Well only		per well	\$7.00	\$0.00
F1. Sample Below Product		per well	\$12.00	\$0.00
G1. Passive Diffusion Bag		each	\$26.00	\$0.00
H1. Field Blank	1	each	\$24.60	\$24.60

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth	28	per sample	\$122.00		\$3,416.00
AA1. Lead, Filtered		per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011	27	per sample	\$45.20		\$1,220.40
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
II. pH		per sample	\$5.20		\$0.00
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1. Total Organic Carbon		per sample	\$30.60		\$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00		\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	90	gallon	\$0.56		\$50.40
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		ton	\$60.00		\$0.00
D1. Drilling fluids		gallon	\$0.42		\$0.00
18. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form)		standard			\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A1. 8-hour Event*		each	\$1,375.00	\$0.00
AA. 24-hour Event*		each	\$3,825.00	\$0.00
A3. 48-hour Event*		each	\$6,265.00	\$0.00
A4. 96-hour Event*		each	\$12,567.50	\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50	\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50	\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00	\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00	\$0.00
D. Site Reconnaissance		each	\$203.25	\$0.00
E1. Additional Hook-ups		each	\$25.75	\$0.00
F1. Effluent Disposal		gallon	\$0.44	\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50	\$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:				
A1. New GAC System Installation*		each	\$1,900.00	\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00	\$0.00
C1. Filter replacement/removal*		each	\$350.00	\$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	\$275.00	\$0.00
E1. GAC System housing*		each	\$250.00	\$0.00
F. In-line particulate filter		each	\$150.00	\$0.00
G1. Additional piping & fittings		foot	\$1.50	\$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered		each	\$50.00	\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00	\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00	\$0.00
D1. Repair well vault*		each	\$118.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
H1. Replace/Repair stick-up*		each	\$134.00	\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00	\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00	\$0.00
Report Prep & Project Management	12%	percent	\$6,774.40	\$812.93
TOTAL				\$7,587.33

*The appropriate mobilization cost can be added to complete these tasks, as necessary



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment



**B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274**

MAR 19 2015

Re: Groundwater Sampling Directive

Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon), 4925
Pamplico Highway, Florence, SC
UST Permit #03423; Cost Agreement #49665
Release No. 1 reported February 26, 2002
Site-Specific Work Plan and Cost Agreement received March 5, 2015
Florence County

Dear Sir or Madam:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed and approved the referenced work plan submitted on your behalf by Davis & Brown. The previous assessment work for this release indicates that petroleum Chemicals of Concern (CoC) are present in the groundwater at concentrations that exceed risk-based screening levels (RBSL). In order to obtain current groundwater quality data, a comprehensive sampling event is necessary. All work must be conducted in accordance with the UST Quality Assurance Protection Plan (QAPP) Revision 2.0 and in compliance with all applicable regulations. A copy of the Agency QAPP for the UST Division is available at: http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost Agreement #49665 has been approved for the amount shown on the enclosed cost agreement form for the sampling of all monitoring wells and ditch water associated with the release. Samples should be analyzed for BTEX, naphthalene, MtBE, 1,2-DCA, the 8 oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include a duplicate sample, field blank, and trip blank.

In accordance with the QAPP, a weekly status report of the project should be provided by e-mail. If any quality assurance problems arise, you must contact me within 24 hours via telephone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the Agency.

The monitoring report, contractor checklist from Appendix K of the QAPP, and invoice are due within sixty (60) days from the date of this letter. Interim invoices may not be submitted for this scope of work. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina

B. W. Stokes Oil Company, Inc.

Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon); UST Permit #03423

Page 2

certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Davis & Brown may submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

If unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of RBSL, the data cannot be used. In those cases, the UST Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSL, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSL.

On all correspondence regarding this directive, please reference **UST Permit #03423 and Cost Agreement #49665**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,



Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

B. W. Stokes Oil Company, Inc.

Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon); UST Permit
#03423

Page 3

enc: Approved Cost Agreement

cc: Davis & Brown, P.O. Box 15038, Quinby, SC 29506 (w/ enc.)
Technical File (w/ enc.)

MR/GWSDIR03.12.15

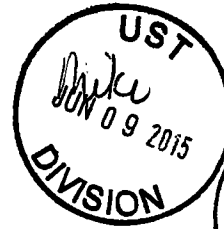
Approved Cost Agreement 49665

Facility: 03423 JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

RIVERSMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB		B1 PERSONNEL	1.0000	423.00	423.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	24.0000	60.00	1,440.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	3.0000	28.00	84.00
		H1 FIELD BLANK	1.0000	24.60	24.60
11 ANALYSES	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	29.0000	122.00	3,538.00
		F1 EDB BY 8011	28.0000	45.20	1,265.60
17 DISPOSAL		AA WASTEWATER	110.0000	0.56	61.60
19 RPT/PROJECT MNGT & COORDINATIO		PRT REPORT PREPARATION	0.1200	6,986.80	838.42
Total Amount					7,825.22



JUNE 4, 2015

Groundwater Sampling Report

O.H. MEGGS EXXON

UST Permit #: 03423

4925 PAMPLICO HWY., FLORENCE SC

PREPARED FOR:

B.W. STOKES OIL COMPANY
PO BOX 274
FLORENCE SC 29503
(843)- 669-6818

BY: DAVIS & BROWN – CONTRACTOR # 79



William Van Ward
William Van Ward, P.E.



DAVIS & BROWN

ENGINEERING • ENVIRONMENTAL • O&M SERVICES

www.NACCDB.com

(843)665-6746 (843)629-1444 Fax

June 4, 2015

1 Introduction

The O.H. Meggs site (UST Permit # 03423) is located at 4925 Pamplico Highway in Florence, SC 29503. The site is currently a closed convenience store that sold gasoline, diesel, and kerosene. The site is commercial. The adjacent properties are residential and agricultural. This is a comprehensive sampling event in accordance with the groundwater sampling Site Specific Work Plan that Davis & Brown submitted on March 5 2015. The current property owner is SCDOT 3018 E. Palmetto St. Florence SC 29506. Their phone number is 843-661-4715. Davis & Brown is the certified UST site rehabilitation contractor (# 79). The phone number for Davis & Brown is 843-665-6746. Access Analytical is the sub contract lab used for analysis. Their phone number is 803-781-4243.

The site currently has a 2,000 gallon, 3,000 gallon, 4,000 gallon, and 6,000 gallon ust's on the property. The first release was reported on February 26, 2002. The second release was reported September 17, 2002. The first monitoring well was installed on July 10, 2015, and sampled on July 25, 2002. Three shallow monitoring wells were installed on November 26, 2002. The wells were sampled on January 6, 2003. A Tier 1 report was submitted on February 12, 2003. On June 26, 2008 two shallow monitoring wells were installed. One of the wells, labeled MW-5, is located in the area of the second release. The second release is suspected to be from a diesel fuel source. The second well installed, labeled MW-6, is located as a data point between to two release areas. The six monitoring wells were sampled on July 24, 2008. A groundwater sampling report was submitted on August 27, 2008. During the end of March and the first of April 2009, sixteen shallow and two telescoping monitoring wells were installed and sampled. A soil and groundwater assessment report was submitted on May 12, 2009.

The site regional geology and hydrogeology is underlain by marine and fluvial sediment of Pliocene and Pleistocene age. The site surface is flat and made up of concrete, asphalt and gravel parking areas and driveways, and roadways with grassy areas and woods that have been recently logged.

2 Ground Water Sample Collection

On April 20, 2015, Jody Ricks with Davis & Brown arrived at the site to locate and record water levels and begin sampling the monitoring wells. Monitoring wells MW-14 thru MW-20, and MW-2-D have been destroyed or covered by heavy debris during the logging of the woods. Monitoring well MW-20 has been destroyed during septic tank improvements. Six monitoring wells and a surface water sample from a ditch were sampled on this day. The monitoring wells sampled were MW-8 thru MW-11, MW-21 and MW-22. The surface water sample point and the ditch are shown on CoC Map, labeled, Figure 3. The weather during the collection times was cloudy and warm, with the temperatures around 75 F. On April 21, 2015 monitoring wells MW-1 thru MW-7, MW-12, MW-13 and MW-1-D were sampled. The weather during the collection times was sunny and warm, with the temperatures around 70 F. A new disposable polyethylene bailer was used for each well for purging and sampling. New, disposable, nitrile gloves were used to maintain sample integrity during the sampling process. Groundwater and Surface water samples were placed in laboratory supplied containers, placed on ice, and shipped for analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process.

All groundwater monitoring wells were purged before sampling. The appropriate well volumes were removed before sampling. Approximately 45 gallons of purged water from monitoring wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-12, and MW -13 were containerized and disposed of at T&K Tank Services located in Sumter SC. The disposal manifest can be found in Appendix G.

The potentiometric data summary can be found in Table 2. Monitoring well purge data sheets can be found in Appendix A. These measurements were used to construct the potentiometric map showing ground water flow direction. The ground water appears to flow in the general direction of Southeast to Northwest. This map is included as Figure 4.

3 Ground Water Assessment Results

The ground water was tested for BTEX, Naphthalene, MTBE, 1, 2 DCA, 8 Oxygenates and EDB. The results of analyses of ground water samples can be found in historical format in Table 3. The lab certificate of analysis and chain of custody forms are included in Appendix B. A field duplicate sample was collected from MW-13. The parameters for the field duplicate and MW-13 were BDL for all parameters except for Benzene, Diisopropyl Ether, BTEX, MTBE, Tert-amyl alcohol and Xylenes. Benzene had a concentration of 58.0 ug/L and the field duplicate had a concentration of 56.0 ug/l, Diisopropyl Ether had a concentration of 27.0 ug/L and the field duplicate had a concentration of 27.0 ug/l, MTBE, had a concentration of 160.0 ug/L and the field duplicate had a concentration of 160 ug/l, Tert-amyl alcohol, had a concentration of 140.0 ug/L and the field duplicate had a concentration of 150.0 ug/l, and Xylenes had a concentration of 17.0 ug/L and the field duplicate had a concentration of 17.0 ug/l. This is within our standard acceptance criteria of 20 % RPD.

The Field blanks and Trip blank tested below detection limit for BTEX, Naphthalene, MTBE, 1,2 DCA,EDB and 8 oxygenates. A chemical of concerns map is shown as Figure 3.

4 Conclusions

The results of the ground water analysis indicate the presence of *Benzene, Ethylbenzene, MTBE, Tolulene, and EDB* in excess of RBSL's in groundwater samples obtained from MW-1. The results of the ground water analysis indicate the presence of *Benzene, Ethylbenzene, and Toluene* in excess of RBSL's in groundwater samples obtained from MW-3. The results of the ground water analysis indicate the presence of *Benzene, Ethylbenzene, MTBE, Naphthalene, Xylene, and Tolulene*, in excess of RBSL's in groundwater samples obtained from MW-4. The results of the ground water analysis indicate the presence of *Benzene, and Naphthalene* in excess of RBSL's in groundwater samples obtained from MW-5, MW-6, MW-12, and MW-13. The results of the ground water analysis indicate the presence of *Benzene* in excess of RBSL's in MW-1-D. The concentration of Benzene in MW-1-D is 8.2 ug/l.

The ground water monitoring well data for this event indicates that the contamination has migrated in the down gradient direction due to the increase of Benzene and Naphthlene in MW-12 as compared to the prior sampling event. The petroleum is migrating into the drainage ditch in front of the site. A surface water sample was collected and labeled SW-1. This sample had a MTBE concentration of 9.5 ug/l which is less than the RBSL.

The contractor checklist is included in this report as Appendix K.

TABLE 2

Potentiometric Data

OH MEGGS EXXON
POTENTIOMETRIC DATA
SITE # 03423

WELL #	CAS. ELEV.	GW DEPTH	GW ELEV.	GW DEPTH	GW ELEV.	GW DEPTH	GW ELEV.	GW DEPTH	GW ELEV.	WELL DEPTH	SCREENED INT.
DATE		4/20/15	4/20/15	4/20/09	4/20/09	1/03	1/03	7/08	7/08		
1	99.56	2.10	97.46	4.10	95.46	3.60	95.96	6.10	93.46	15.00	5.00-15.00'
2	100.18	2.71	97.47	4.38	95.80	3.90	96.28	6.80	93.38	15.00	5.00-15.00'
3	97.74	0.07	97.67	2.14	95.60	2.02	95.72	4.21	93.53	12.00	2.00-12.00'
4	98.85	1.95	96.90	3.12	95.73	2.93	95.92	5.52	93.33	13.00	3.00-13.00'
5	99.58	2.10	97.48	3.82	95.76			6.36	93.22	12.00	2.00-12.00'
6	100.37	2.94	97.43	4.22	96.15			7.00	93.37	12.00	2.00-12.00'
7	100.96	3.39	97.57	4.87	96.09					12.00	2.00-12.00'
8	98.12	1.90	96.22	2.47	95.65					12.00	2.00-12.00'
9	96.61	2.20	94.41	2.50	94.11					12.00	2.00-12.00'
10	93.88	1.56	92.32	1.39	92.49					12.00	2.00-12.00'
11	92.73	2.20	90.53	1.66	91.07					12.00	2.00-12.00'
12	93.84	1.55	92.29	2.89	90.95					12.00	2.00-12.00'
13	94.89	0.85	94.04	2.45	92.44					12.00	2.00-12.00'
14	96.24	CNF	CNF	2.46	93.78					12.00	2.00-12.00'
15	97.36	CNF	CNF	2.59	94.77					12.00	2.00-12.00'
16	94.27	CNF	CNF	0.70	93.57					12.00	2.00-12.00'
17	93.55	CNF	CNF	1.30	92.25					12.00	2.00-12.00'
18	96.44	CNF	CNF	2.10	94.34					12.00	2.00-12.00'
19	93.8	CNF	CNF	1.06	92.74					12.00	2.00-12.00'
20	100.7	CNF	CNF	4.80	95.90					12.00	2.00-12.00'
21	91.73	0.02	91.71	0.84	90.89					12.00	2.00-12.00'
22	92.81	0.02	92.79	1.10	91.71					12.00	2.00-12.00'
DW-1	98.82	2.00	96.82	3.12	95.70					40.00	35.00-40.00'
DW-2	96.63	CNF	CNF	2.19	94.44					40.00	35.00-40.00'

CNF = COULD NOT FIND

TABLE 2

TABLE 3

Historical Format for Groundwater Data

SITE ID# 03423

OF MELOS EXCISE										
COC	RBSL	MW1	MW1	MW1	MW1	MW1	MW2	MW2	MW2	MW2
DATE	ug/l	7\25\02	1\06\03	7\24\08	4\20\09	4\21\15	1\06\03	7\24\08	4\20\09	04\21\15
1,2 DCA			19.1	<180	<2.50	<50	281	<0.090	<5	<1
BENZENE	5	3,690	7,810	14,100	7,010	7,000	14.6	<0.065	<5	1.9
BTEX	N/A	21,170	47,280	84,090	42,420	33,400	14.6	0.793	<25	<5
DIPE					<2,500	2,700			<5	<10
EDB	0.03	1.2	4.6	0.183	0.487	1.07	<0.02	<0.003	<0.01	<0.020
ETHANOL					<50,000	<5,000			<100	<100
ETBA					<5,000	<5,000			<10	<100
ETBE					<2,500	<5,000			<5	<100
ETHYLBENZENE	700	804	2,430	2,990	1670 J	1,100	<1	<0.065	<5	<1
FERROUS										
MTBE	40	2,770	68.7	37,800	12,300	11,000	9	<5	<5	<1
NAPHTHALENE	25	218	615	<236	1070 J	<250	<1	<0.118	<5	<5
NITRATE			<500				4,500			
SULFATE			<2,000				<2,000			
TAA						21,000			<20	<100
TAME					<2,500	1,100			<5	<10
TBA					<5,000	<5,000			<10	<100
TBF					<2,500	<5,000			<5	<100
TOLUENE	1,000	10,500	25,000	46,500	26,500	18,000	<1	0.793	<5	<1
XYLENE	10,000	6,180	12,040	20,500	8,910	7,300	<2	<0.183	<10	<2
Pb	15	6	17	5			14	<1		
PAH		285	213				BDL			
METHANE			<10				<10			
COC	RBSL	MW3	MW3	MW3	MW3	MW4	MW4	MW4	MW4	
DATE	ug/l	1\06\03	7\24\08	4\20\09	4\21\15	1\03	7\24\08	4\20\09	4\21\15	
1,2 DCA		157	<45	<1,000	<100	272	<5,000	<1,000	<100	
BENZENE	5	8,190	1,730	822	780	11,900	13,900	3,930	16,000	
BTEX	N/A	31,750	38,220	23,620	14,880	42,920	69,600	19,320	65,700	
DIPE				<1,000	<1,000			1,100	4,300	
EDB	0.03	<0.02	<0.003	<0.01	<0.02	0.1	0.1	0.019	<100	
ETHANOL				<20,000	<10,000			<20,000	<10,000	
ETBA				<2,000	<10,000			<2,000	<10,000	
ETBE				<1,000	<10,000			<1,000	<10,000	
ETHYLBENZENE	700	1,920	2,090	1,580	2,000	1,960	<5,000	92.8 J	2,500	
FERROUS										
MTBE	40	1,670	<2,500	<1,000	<100	9,490	11,600	1,920	9,200	
NAPHTHALENE	25	715	2,130	685 J	<500	695	<5,000	478	510	
NITRATE		<500			<500	<500				
SULFATE		3,100			3,100	<2,000				
TAA				<4,000	<10,000			10,200	78,000	
TAME				<1,000	<1,000			<1,000	1,200	
TBA				<2,000	<10,000			<2,000	<10,000	
TBF				<1,000	<10,000			<1,000	<10,000	
TOLUENE	1,000	13,600	18,200	9,640	2,800	18,900	40,400	11,300	33,000	
XYLENE	10,000	8,040	16,200	12,400	9,300	10,160	15,300	4,090	14,200	
Pb	15	5	1			9	<1			
PAH		628				480				
METHANE		10				<10				
COC	RBSL	MW5	MW5	MW5	MW6	MW6	MW6	MW7	MW7	
DATE	ug/l	7\24\08	4\20\09	4\21\15	7\24\08	4\20\09	4\21\15	4\20\09	4\21\15	
1,2 DCA		<25	<5	<1	<250	<20	<1	<5	<1	
BENZENE	5	686	87	67	2,870	70	400	<5	<1	
BTEX	N/A	954	94	119.9	16,390	1,545	1,287	<25	<5	
DIPE			26	<10		<20	<10	<5	<10	
EDB	0.03	<0.01	<0.01	<0.020	<0.01	<0.01	<0.020	<0.01	<0.020	
ETHANOL			<100	<100		<400	<100	<100	<100	
ETBA			<10	<100		<40	<100	<10	<100	
ETBE			<5	<100		<20	<100	<5	<100	
ETHYLBENZENE	700	118	7	49	2,050	502	420	<5	<1	
FERROUS								1,040		
MTBE	40	828	39	<1	690	<20	<1	<5	<1	
NAPHTHALENE	25	255	136	93	650	594	310	<5	<5	
NITRATE								8,000		
SULFATE								<5,000		
TAA			323	<100		124	230	<20	<100	
TAME			10	<10		<20	<10	<5	<10	
TBA			<10	<100		<40	<100	<10	<100	
TBF			<5	<100		<20	<100	<5	<100	
TOLUENE	1,000	31	<5	3.9	3,760	38	40	<5	<1	
XYLENE	10,000	119	<10	<2	7,710	936	427	<10	<2	
Pb	15	<1			<1					
PAH										
METHANE										

APPENDIX A

Monitoring Well Purge Data Sheets



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N	Temp 24.0c	Calibration 8.41 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 1	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: Bailer Pump
☐ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 5 to 15	Total Well Depth (TWD) (ft.): 15.00	
☐ Private WSW ☐ Public WSW	Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.10	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 12.90	1 casing volume (CV = LWC x C) (gals.): 2.10	3 casing volumes (3 x CV) (gals.): 6.30	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2.25	2.25	2.25				
Time (military)		1220	1224	1229				
PH (s.u.)		5.46	5.40	5.41				
Specific Conductivity (µS/cm)		91.0	85.1	83.0				
Water Temperature (°C)		19.1	19.0	19.1				
Turbidity (NTU)		122	120	117				
Dissolved Oxygen (mg/L)		1.90	1.95	1.32				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1233	Duplicate: Y or N	If yes, Duplicate Time:
Notes:			
Signature: Jody Ricks			



Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c Calibration 8.41 mg/l			
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 2	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ☒ Bailer ☐ Pump
☒ MW ☐ IW ☐ RW ☐ Other _____ ☐ Private WSW ☐ Public WSW	Screened Interval (ft.): 5 to 15		Total Well Depth (TWD) (ft.): 15.00
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.71	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.): 12.29	1 casing volume (CV = LWC x C) (gals.): 2.00	3 casing volumes (3 x CV) (gals.): 6.00	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2	2			
Time (military)		1140	1145	1149	1155			
PH (s.u.)		5.23	5.15	5.10	5.11			
Specific Conductivity (µS/cm)		159.3	117.5	115.0	116.1			
Water Temperature (°C)		19.3	19.4	18.8	18.4			
Turbidity (NTU)		118	85	90	86			
Dissolved Oxygen (mg/L)		1.83	1.57	1.54	1.63			

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1158	Duplicate: Y or ☒ N	If yes, Duplicate Time:
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Notes: _____

Signature:



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15 Site ID #: 03423 Site Name: O.H. MEGGS Field Personnel: JODY RICKS
County: FLORENCE Project Manager: MICHAEL RIVERS General Weather Conditions: SUNNY/WARM Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c Calibration 8.41 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 3 Well Diameter (ft.): _____ Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump
 MW IW RW Other _____ Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): 12.00
 Private WSW Public WSW Depth to Free Product (DFP) (ft.): _____ Depth to Groundwater (DGW) (ft.): 0.07 Free Product Thickness (ft.): _____
Length of water column (LWC = TWD – DGW) (ft.): 9.88 1 casing volume (CV = LWC x C) (gals.): 1.61 3 casing volumes (3 x CV) (gals.): 4.83

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>			
Time (military)		<u>1330</u>	<u>1335</u>	<u>1339</u>	<u>1344</u>			
PH (s.u.)		<u>6.06</u>	<u>6.08</u>	<u>6.04</u>	<u>6.07</u>			
Specific Conductivity (µS/cm)		<u>305.5</u>	<u>223.7</u>	<u>222.6</u>	<u>227.5</u>			
Water Temperature (°C)		<u>18.4</u>	<u>18.1</u>	<u>17.9</u>	<u>17.6</u>			
Turbidity (NTU)		<u>210</u>	<u>136</u>	<u>125</u>	<u>130</u>			
Dissolved Oxygen (mg/L)		<u>1.76</u>	<u>1.70</u>	<u>2.29</u>	<u>2.27</u>			

Sampling Data

Sampled By: Jody Ricks Sampling Time: 1348 Duplicate: Y or (N) If yes, Duplicate Time: _____

Notes: _____

Signature: [Signature]



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c Calibration 8.41 mg/l			
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 4	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ☒ Bailer ☐ Pump
☒ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12.00	
☐ Private WSW ☐ Public WSW	Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 1.95	Free Product Thickness (ft.):
Length of water column (LWC = TWD - DGW) (ft.): 10.05	1 casing volume (CV = LWC x C) (gals.): 1.63	3 casing volumes (3 x CV) (gals.): 4.91	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2				
Time (military)		1250	1255	1258				
PH (s.u.)		5.34	5.31	5.36				
Specific Conductivity (µS/cm)		135.3	140.1	132.8				
Water Temperature (°C)		19.0	19.2	19.6				
Turbidity (NTU)								
Dissolved Oxygen (mg/L)		1.33	1.66	1.27				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1305	Duplicate: Y or ☒ N	If yes, Duplicate Time:
Notes:			
Signature: Jody Ricks			



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15 Site ID #: 03423 Site Name: O.H. MEGGS Field Personnel: JODY RICKS
County: FLORENCE Project Manager: MICHAEL RIVERS General Weather Conditions: SUNNY/WARM Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c Calibration 8.41 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 5 Well Diameter (ft.): _____ Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump
 MW IW RW Other _____ Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): 12.00
 Private WSW Public WSW Depth to Free Product (DFP) (ft.): _____ Depth to Groundwater (DGW) (ft.): 2.10 Free Product Thickness (ft.): _____
Length of water column (LWC = TWD – DGW) (ft.): 9.90 1 casing volume (CV = LWC x C) (gals.): 1.61 3 casing volumes (3 x CV) (gals.): 4.84

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		<u>2</u>	<u>2</u>	<u>2</u>				
Time (military)		<u>1450</u>	<u>1455</u>	<u>1458</u>				
PH (s.u.)		<u>6.38</u>	<u>6.45</u>	<u>6.46</u>				
Specific Conductivity (µS/cm)		<u>307.1</u>	<u>300.1</u>	<u>308.2</u>				
Water Temperature (°C)		<u>17.6</u>	<u>18.0</u>	<u>17.4</u>				
Turbidity (NTU)		<u>193</u>	<u>190</u>	<u>180</u>				
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Jody Ricks Sampling Time: 1505 Duplicate: Y or N If yes, Duplicate Time: _____

Notes: _____

Signature: Jody Ricks



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15 Site ID #: 03423 Site Name: O.H. MEGGS Field Personnel: JODY RICKS
County: FLORENCE Project Manager: MICHAEL RIVERS General Weather Conditions: SUNNY/WARM Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c		Calibration 8.41 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 6 Well Diameter (ft.): _____ Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump
MW IW RW Other _____ Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): 12.00
Private WSW Public WSW _____ Depth to Free Product (DFP) (ft.): _____ Depth to Groundwater (DGW) (ft.): 2.94 Free Product Thickness (ft.): _____
Length of water column (LWC = TWD – DGW) (ft.): 9.06 1 casing volume (CV = LWC x C) (gals.): 1.47 3 casing volumes (3 x CV) (gals.): 4.41

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		<u>1.5</u>	<u>1.5</u>	<u>1.5</u>				
Time (military)		<u>1415</u>	<u>1419</u>	<u>1423</u>				
PH (s.u.)		<u>6.26</u>	<u>6.28</u>	<u>6.31</u>				
Specific Conductivity (µS/cm)		<u>321.3</u>	<u>324.1</u>	<u>319.1</u>				
Water Temperature (°C)		<u>18.4</u>	<u>18.8</u>	<u>18.5</u>				
Turbidity (NTU)		<u>98</u>	<u>100</u>	<u>97</u>				
Dissolved Oxygen (mg/L)		<u>1.82</u>	<u>1.46</u>	<u>1.41</u>				

Sampling Data

Sampled By: Jody Ricks Sampling Time: 1428 Duplicate: Y or (N) If yes, Duplicate Time: _____

Notes: _____

Signature: Jody Ricks



Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c Calibration 8.41 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 7	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: Bailer Pump
MW IW RW Other	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12	
Private WSW Public WSW	Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 3.39	
Length of water column (LWC = TWD - DGW) (ft.): 8.61	1 casing volume (CV = LWC x C) (gals.): 1.40	Free Product Thickness (ft.):	
		3 casing volumes (3 x CV) (gals.): 4.21	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		1.5	1.5	1.5	1.5			
Time (military)		1110	1114	1117	1120			
PH (s.u.)		4.28	4.16	4.20	4.22			
Specific Conductivity (µS/cm)		183.3	176.1	178.0	174.1			
Water Temperature (°C)		18.2	17.6	17.3	17.0			
Turbidity (NTU)		210	82	81	77			
Dissolved Oxygen (mg/L)		6.85	7.13	7.22	7.00			

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1125	Duplicate: Y or N (N)	If yes, Duplicate Time:
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Notes:

Signature: Jody Ricks



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/20/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: CLOUDY/WARM	Ambient Air Temp (°F): 75

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 23.6c Calibration 8.48 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 8	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ☐ Bailer ☐ Pump
☐ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 1.90	Free Product Thickness (ft.):	
Length of water column (LWC = TWD - DGW) (ft.): 10.10	1 casing volume (CV = LWC x C) (gals.): 1.64	3 casing volumes (3 x CV) (gals.): 4.93	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2				
Time (military)		1350	1354	1358				
PH (s.u.)		4.95	4.97	5.01				
Specific Conductivity (µS/cm)		55.6	54.9	56.0				
Water Temperature (°C)		18.8	18.0	18.1				
Turbidity (NTU)		128	130	131				
Dissolved Oxygen (mg/L)		2.75	2.53	2.62				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1405	Duplicate: Y or ☒ N	If yes, Duplicate Time:
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Notes:

Signature: *Jody Ricks*



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/20/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: CLOUDY/WARM	Ambient Air Temp (°F): 75

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 23.6c Calibration 8.48 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 9	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ☐ Bailer ☐ Pump
☐ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12	
☐ Private WSW ☐ Public WSW	Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.20	
Length of water column (LWC = TWD – DGW) (ft.): 9.80	1 casing volume (CV = LWC x C) (gals.): 1.59	Free Product Thickness (ft.):	
	3 casing volumes (3 x CV) (gals.): 4.79		

Purging Data

	Initial	1 st Vol. 2.0	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		5.1 5.0	1.5	1.5				
Time (military)		1320	1323	1326				
PH (s.u.)		5.08	5.09	5.03				
Specific Conductivity (µS/cm)		80.4	79.1	77.1				
Water Temperature (°C)		18.8	18.4	18.0				
Turbidity (NTU)		690	700	680				
Dissolved Oxygen (mg/L)		2.03	2.44	2.63				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1330	Duplicate: Y or ☒ N	If yes, Duplicate Time:
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Notes:

Signature: *[Signature]*



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/20/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: CLOUDY/WARM	Ambient Air Temp (°F): 75

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N	Temp 23.6c	Calibration 8.48 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 10	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ☐ Bailer ☐ Pump
☐ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12.00	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 1.56	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.): 10.44	1 casing volume (CV = LWC x C) (gals.): 1.70	3 casing volumes (3 x CV) (gals.): 5.10	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2	2			
Time (military)		1245	1249	1253	1258			
PH (s.u.)		4.64	4.69	4.70	4.74			
Specific Conductivity (µS/cm)		144.7	80.3	79.0	78.7			
Water Temperature (°C)		20.7	19.2	19.0	18.8			
Turbidity (NTU)		320	57	57	54			
Dissolved Oxygen (mg/L)		2.03	2.66	3.47	3.39			

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1302	Duplicate: Y or ☒ N	If yes, Duplicate Time:
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Notes: _____

Signature:



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/20/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: CLOUDY/WARM	Ambient Air Temp (°F): 75

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 23.6c		Calibration 8.48 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 11	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ☐ Bailer ☐ Pump
☐ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 2 to 12		Total Well Depth (TWD) (ft.): 12
☐ Private WSW ☐ Public WSW			
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.20	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.): 9.80	1 casing volume (CV = LWC x C) (gals.): 1.59	3 casing volumes (3 x CV) (gals.): 4.79	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	1.5	1.5				
Time (military)		1220	1223	1227				
PH (s.u.)		4.68	4.63	4.70				
Specific Conductivity (µS/cm)		78.0	73.6	72.9				
Water Temperature (°C)		20.0	18.4	18.9				
Turbidity (NTU)		560	550	600				
Dissolved Oxygen (mg/L)		3.21	3.15	3.22				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1230	Duplicate: Y or ☒ N	If yes, Duplicate Time:
Notes:			
Signature: Jody Ricks			



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 24.0c		Calibration 8.41 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 12	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: Bailer Pump
MW IW RW Other Private WSW Public WSW		Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 1.55	Free Product Thickness (ft.):	
Length of water column (LWC = TWD – DGW) (ft.): 10.45	1 casing volume (CV = LWC x C) (gals.): 1.70	3 casing volumes (3 x CV) (gals.): 5.1	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2				
Time (military)		1000	1004	1009				
PH (s.u.)		4.89	4.80	4.84				
Specific Conductivity (µS/cm)		150.0	149.1	146.3				
Water Temperature (°C)		18.9	18.8	19.0				
Turbidity (NTU)		175	183	179				
Dissolved Oxygen (mg/L)		5.11	4.99	4.48				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1015	Duplicate: Y or N	If yes, Duplicate Time:
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Notes:

Signature: Jody Ricks



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N	Temp 24.0c	Calibration 8.41 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 13	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: Bailer Pump
MW JW RW Other Private WSW Public WSW	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12.00	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 0.85	Free Product Thickness (ft.):	
Length of water column (LWC = TWD - DGW) (ft.): 11.15	1 casing volume (CV = LWC x C) (gals.): 1.81	3 casing volumes (3 x CV) (gals.): 5.45	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2				
Time (military)		1030	1034	1039				
PH (s.u.)		4.61	4.60	4.66				
Specific Conductivity (µS/cm)		100.4	97.1	99.2				
Water Temperature (°C)		18.1	18.3	18.5				
Turbidity (NTU)		33	33	35				
Dissolved Oxygen (mg/L)		5.41	5.55	5.30				

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1045	Duplicate: Y or N	If yes, Duplicate Time: 1048
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Notes:

Signature:



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/20/15 Site ID #: 03423 Site Name: O.H. MEGGS Field Personnel: JODY RICKS
County: FLORENCE Project Manager: MICHAEL RIVERS General Weather Conditions: CLOUDY/WARM Ambient Air Temp (°F): 75

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 23.6c Calibration 8.48 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 21 Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: ☐ Bailer ☐ Pump

☐ MW ☐ JW ☐ RW ☐ Other _____ Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): 12.00
☐ Private WSW ☐ Public WSW

Depth to Free Product (DFP) (ft.): Depth to Groundwater (DGW) (ft.): 0.02 Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 11.98 1 casing volume (CV = LWC x C) (gals.): 1.95 3 casing volumes (3 x CV) (gals.): 5.85

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		2	2	2	2			
Time (military)		1130	1135	1140	1145			
PH (s.u.)		4.89	4.71	4.76	4.76			
Specific Conductivity (µS/cm)		189.8	102.0	102.8	99.0			
Water Temperature (°C)		17.6	17.1	16.5	16.7			
Turbidity (NTU)		188	162	155	161			
Dissolved Oxygen (mg/L)		7.04	7.01	7.17	7.31			

Sampling Data

Sampled By: Jody Ricks Sampling Time: 1148 Duplicate: Y or ☒ N If yes, Duplicate Time:

Notes: _____
Signature: Jody Ricks



Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 4/20/15 Site ID #: 03423 Site Name: O.H. MEGGS Field Personnel: JODY RICKS
County: FLORENCE Project Manager: MICHAEL RIVERS General Weather Conditions: CLOUDY/WARM Ambient Air Temp (°F): 75

Quality Assurance

Meter Name	Serial #:	Calibration:
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N pH 7.0: Y or N pH 10.0: Y or N S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N Temp 23.6c Calibration 8.48 mg/l
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: 22 Well Diameter (ft.): _____ Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump
MW IW RW Other _____ Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): 12.00
Private WSW Public WSW _____ Depth to Free Product (DFP) (ft.): _____ Depth to Groundwater (DGW) (ft.): 0.02 Free Product Thickness (ft.): _____
Length of water column (LWC = TWD – DGW) (ft.): 11.98 1 casing volume (CV = LWC x C) (gals.): 1.95 3 casing volumes (3 x CV) (gals.): 5.85

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		<u>2</u>	<u>2</u>	<u>2</u>				
Time (military)		<u>1155</u>	<u>1200</u>	<u>1205</u>				
PH (s.u.)		<u>5.48</u>	<u>5.51</u>	<u>5.45</u>				
Specific Conductivity (µS/cm)		<u>111.0</u>	<u>110.7</u>	<u>110.6</u>				
Water Temperature (°C)		<u>18.0</u>	<u>18.2</u>	<u>18.1</u>				
Turbidity (NTU)		<u>345</u>	<u>360</u>	<u>350</u>				
Dissolved Oxygen (mg/L)		<u>6.83</u>	<u>7.00</u>	<u>6.90</u>				

Sampling Data

Sampled By: Jody Ricks Sampling Time: 1209 Duplicate: Y or N If yes, Duplicate Time: _____

Notes: _____

Signature: [Signature]



Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 4/21/15	Site ID #: 03423	Site Name: O.H. MEGGS	Field Personnel: JODY RICKS
County: FLORENCE	Project Manager: MICHAEL RIVERS	General Weather Conditions: SUNNY/WARM	Ambient Air Temp (°F): 70

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI 63 (pH, Specific Conductivity, Temperature)	(AP115,2008054)(YSI30, 97d0409ah)	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI 55 (Dissolved Oxygen)	YSI55-13B101899	Y or N	Temp 24.0c	Calibration 8.41 mg/l	
LaMotte (Turbidity)	HACH-020500026475	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: 1-D	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: Bailer Pump
☐ MW ☐ IW ☐ RW ☐ Other	Screened Interval (ft.): 35 to 40	Total Well Depth (TWD) (ft.): 40.00	
☐ Private WSW ☐ Public WSW	Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.00	Free Product Thickness (ft.):
Length of water column (LWC = TWD – DGW) (ft.): 38.00	1 casing volume (CV = LWC x C) (gals.): 6.19	3 casing volumes (3 x CV) (gals.): 18.58	

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)		6.25	6.25	6.25	6.25			
Time (military)		1540	1550	1600	1610			
PH (s.u.)		7.56	7.33	7.36	7.40			
Specific Conductivity (µS/cm)		318.6	321.0	315.1	304.0			
Water Temperature (°C)		18.7	18.8	19.0	18.8			
Turbidity (NTU)		110	107	108	100			
Dissolved Oxygen (mg/L)		2.88	2.90	3.61	2.91			

Sampling Data

Sampled By: Jody Ricks	Sampling Time: 1615	Duplicate: Y or ☒ N	If yes, Duplicate Time:
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Notes:

Signature:

APPENDIX B

Lab Certificate of Analysis and Chain of Custody

Davis & Brown

PO Box 15038
Quinby, SC 29506
(843) 665-6746 FAX: (843) 629-1444

Certificate of Analysis

Client: B.W. STOKES OIL CO.
P.O. BOX 274
FLORENCE, SC 29503

South Carolina Certification Number: 21117

Contact: TBD TBD

Receipt Date: 21-Apr-15

Client #: 1688

Report Date: 13-May-15

Sample Date: 21-Apr-15

Approved By:

Van Ward

SDG #: SDG-105268

Van Ward

Lab Sample ID: LSID-232192

Lab Director

Sample ID: MW 1

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.050	0.05	mg/L	8260B	S11A	4/28/2015	11:07	NP
Benzene	7.00	0.05	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
BTEX, Total	33.4	0.3	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	2.70	0.5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Ethanol	<5.00	5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Ethyl tert-butanol (ETBA)	<5.00	5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Ethyl tert-butyl ether (ETBE)	<5.00	5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Ethylbenzene	1.10	0.05	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Methyl tert-Butyl Ether	11.0	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:18	NP
Napthalene	<0.250	0.25	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Tert-amyl alcohol (TAA)	21.0	5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Tert-amyl methyl ether (TAME)	1.10	0.5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Tert-butyl alcohol (TBA)	<5.00	5	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Tert-butyl formate (TBF)	<5.00	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Toluene	18.0	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
Xylenes, Total	7.30	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:07	NP
EDB	1.07	0.201	ug/L	SW 846 8011	S11A	4/25/2015	23:49	SH

Davis & Brown

PO Box 15038
Quinby, SC 29506
(843) 665-6746 FAX: (843) 629-1444

Certificate of Analysis

Client: B.W. STOKES OIL CO.
P.O. BOX 274
FLORENCE, SC 29503

South Carolina Certification Number: 21117

Contact: TBD TBD

Receipt Date: 21-Apr-15

Client #: 1688

Report Date: 13-May-15

Sample Date: 21-Apr-15

Approved By:

Van Ward

SDG #: SDG-105268

Lab Sample ID: LSID-232193

Van Ward

Sample ID: MW 2

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	11:29	NP
Benzene	0.0019	0.001	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	11:29	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	19:41	SH

Davis & Brown

PO Box 15038
Quincy, SC 29506
(843) 665-6746 FAX: (843) 629-1444

Certificate of Analysis

Client: B.W. STOKES OIL CO.
P.O. BOX 274
FLORENCE, SC 29503

South Carolina Certification Number: 21117

Contact: TBD TBD
Client #: 1688

Receipt Date: 21-Apr-15
Report Date: 13-May-15

Sample Date: 21-Apr-15
SDG #: SDG-105268
Lab Sample ID: LSID-232194
Sample ID: MW 3

Approved By:

Van Ward

Van Ward
Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.100	0.1	mg/L	8260B	S11A	4/28/2015	10:21	NP
Benzene	0.780	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
BTEX, Total	14.88	0.5	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<1.00	1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Ethanol	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Ethyl tert-butanol (ETBA)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Ethyl tert-butyl ether (ETBE)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Ethylbenzene	2.00	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Methyl tert-Butyl Ether	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Napthalene	<0.500	0.5	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Tert-amyl alcohol (TAA)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Tert-amyl methyl ether (TAME)	<1.00	1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Tert-butyl alcohol (TBA)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Tert-butyl formate (TBF)	<10.0	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Toluene	2.80	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
Xylenes, Total	9.30	0.2	mg/L	EPA 8260B	S11A	4/28/2015	10:21	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	20:10	SH

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Contact: TBD TBD

Receipt Date: 21-Apr-15

Client #: 1688

Report Date: 13-May-15

Sample Date: 21-Apr-15

Approved By:

Van Ward

SDG #: SDG-105268

Van Ward

Lab Sample ID: LSID-232195

Lab Director

Sample ID: MW 4

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.100	0.1	mg/L	8260B	S11A	4/28/2015	10:44	NP
Benzene	16.0	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
BTEX, Total	65.7	0.9	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	4.30	1	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Ethanol	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Ethyl tert-butanol (ETBA)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Ethyl tert-butyl ether (ETBE)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Ethylbenzene	2.50	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Methyl tert-Butyl Ether	9.20	0.1	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Napthalene	0.510	0.5	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Tert-amyl alcohol (TAA)	78.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Tert-amyl methyl ether (TAME)	1.20	1	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Tert-butyl alcohol (TBA)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Tert-butyl formate (TBF)	<10.0	10	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Toluene	33.0	0.5	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
Xylenes, Total	14.2	0.2	mg/L	EPA 8260B	S11A	4/28/2015	10:44	NP
EDB	<0.100	0.1	ug/L	SW 846 8011	S11A	4/29/2015	21:23	SH

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Sample Date: 21-Apr-15

Approved By:

Van Ward

SDG #: SDG-105268

Lab Sample ID: LSID-232196

Van Ward

Sample ID: MW 5

Lab Director

Parameter	Result	Reporting Limit	Unit	Method	Flag	Date	Time	Analyst
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	18:41	NP
Benzene	0.067	0.001	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
BTEX, Total	0.1199	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Ethylbenzene	0.049	0.001	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Napthalene	0.093	0.005	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Toluene	0.0039	0.001	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	18:41	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	21:36	SH

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Sample Date: 21-Apr-15

Approved By: Van Ward

SDG #: SDG-105268

Lab Sample ID: LSID-232197

Sample ID: MW 6

Van Ward

Lab Director

Parameter	Result	Reporting Limit	Unit	Method	Flag	Date	Time	Analyst
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	19:04	NP
Benzene	0.400	0.01	mg/L	EPA 8260B	S11A	4/29/2015	15:38	NP
BTEX, Total	1.287	0.023	mg/L	EPA 8260B		4/29/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Ethylbenzene	0.420	0.01	mg/L	EPA 8260B	S11A	4/29/2015	15:38	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Napthalene	0.310	0.05	mg/L	EPA 8260B	S11A	4/29/2015	15:38	NP
Tert-amyl alcohol (TAA)	0.230	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Toluene	0.040	0.001	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
Xylenes, Total	0.427	0.002	mg/L	EPA 8260B	S11A	4/28/2015	19:04	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	22:04	SH

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Approved By:

Van Ward

SDG #: SDG-105268

Lab Sample ID: LSID-232198

Sample ID: MW 7

Van Ward

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	12:15	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015	12:15	WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	12:15	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	22:33	SH

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Sample Date: 20-Apr-15

SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232199

Van Ward

Sample ID: MW 8

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	12:37	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	12:37	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	23:01	SH

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Van Ward

SDG #: SDG-105268

Lab Sample ID: LSID-232200

Sample ID: MW 9

Van Ward

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	13:00	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	13:00	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	23:30	SH

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SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232201

Van Ward

Sample ID: MW 10

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	13:23	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Methyl tert-Butyl Ether	0.0088	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	13:23	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/24/2015	23:58	SH

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Sample Date: 20-Apr-15
SDG #: SDG-105268
Lab Sample ID: LSID-232202
Sample ID: MW 11

Approved By:

Van Ward

Van Ward
Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	13:45	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	13:45	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	0:27	SH

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SDG #: SDG-105268

Lab Sample ID: LSID-232203

Sample ID: MW 12

Approved By:

Van Ward

Van Ward

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/29/2015	16:00	NP
Benzene	0.320	0.01	mg/L	EPA 8260B	S11A	4/28/2015	11:52	NP
BTEX, Total	0.4188	0.014	mg/L	EPA 8260B		4/29/2015		WSF
Diisopropyl Ether (DIPE)	0.110	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/29/2015	16:00	NP
Methyl tert-Butyl Ether	0.940	0.01	mg/L	EPA 8260B	S11A	4/28/2015	11:52	NP
Napthalene	0.043	0.005	mg/L	EPA 8260B	S11A	4/29/2015	16:00	NP
Tert-amyl alcohol (TAA)	0.400	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Tert-amyl methyl ether (TAME)	0.042	0.01	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	19:26	NP
Toluene	0.0028	0.001	mg/L	EPA 8260B	S11A	4/29/2015	16:00	NP
Xylenes, Total	0.096	0.002	mg/L	EPA 8260B	S11A	4/29/2015	16:00	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	0:56	SH

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South Carolina Certification Number: 21117

Contact: TBD TBD

Receipt Date: 21-Apr-15

Client #: 1688

Report Date: 13-May-15

Sample Date: 21-Apr-15

Approved By:

Van Ward

SDG #: SDG-105268

Van Ward

Lab Sample ID: LSID-232204

Lab Director

Sample ID: MW 13

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	14:08	NP
Benzene	0.058	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
BTEX, Total	0.0597	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	0.027	0.01	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Methyl tert-Butyl Ether	0.160	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Tert-amyl alcohol (TAA)	0.140	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
Xylenes, Total	0.0017	0.002	mg/L	EPA 8260B	S11A	4/28/2015	14:08	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	1:53	SH

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Contact: TBD TBD

Receipt Date: 21-Apr-15

Client #: 1688

Report Date: 13-May-15

Sample Date: 21-Apr-15

SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232205

Van Ward

Sample ID: MW 13(DUP)

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	14:31	NP
Benzene	0.056	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
BTEX, Total	0.0577	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	0.027	0.01	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Methyl tert-Butyl Ether	0.160	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-amyl alcohol (TAA)	0.150	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Xylenes, Total	0.0017	0.002	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	2:21	SH

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Sample Date: 20-Apr-15

Approved By:

Van Ward

SDG #: SDG-105268

Lab Sample ID: LSID-232206

Sample ID: MW 21

Van Ward

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	15:40	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	15:40	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	15:40	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	15:40	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	15:40	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	14:31	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	15:40	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	15:40	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	2:50	SH

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Sample Date: 20-Apr-15

SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232207

Sample ID: MW 22

Van Ward

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	16:25	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	3:19	SH

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Receipt Date: 21-Apr-15

Report Date: 13-May-15

Sample Date: 21-Apr-15

SDG #: SDG-105268

Lab Sample ID: LSID-232208

Sample ID: MW 1-D

Approved By:

Van Ward

Van Ward

Lab Director

Parameter	Result	Reporting		Unit	Method	Flag	Date	Time	Analyst
		Limit							
1,2-Dichloroethane	<0.001	0.001		mg/L	8260B	S11A	4/28/2015	16:48	NP
Benzene	0.0082	0.001		mg/L	EPA 8260B	S11A	4/28/2015	16:48	NP
BTEX, Total	0.0169	0.005		mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethanol	<0.100	0.1		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Ethylbenzene	0.0025	0.001		mg/L	EPA 8260B	S11A	4/28/2015	16:48	NP
Methyl tert-Butyl Ether	<0.001	0.001		mg/L	EPA 8260B	S11A	4/28/2015	16:48	NP
Napthalene	<0.005	0.005		mg/L	EPA 8260B	S11A	4/28/2015	16:48	NP
Tert-amyl alcohol (TAA)	<0.100	0.1		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-butyl alcohol (TBA)	<0.100	0.1		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Tert-butyl formate (TBF)	<0.100	0.1		mg/L	EPA 8260B	S11A	4/28/2015	16:25	NP
Toluene	0.0048	0.001		mg/L	EPA 8260B	S11A	4/28/2015	16:48	NP
Xylenes, Total	0.0014	0.001		mg/L	EPA 8260B	S11A	4/28/2015	16:48	NP
EDB	<0.020	0.02		ug/L	SW 846 8011	S11A	4/25/2015	3:48	SH

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Client #: 1688

Report Date: 13-May-15

Sample Date: 20-Apr-15

SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232209

Van Ward

Sample ID: SW-1

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/28/2015	17:11	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/28/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Methyl tert-Butyl Ether	0.0095	0.001	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/28/2015	17:11	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	4:16	SH

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Client #: 1688

Report Date: 13-May-15

Sample Date: 20-Apr-15

SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232210

Van Ward

Sample ID: FB-4/20

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/27/2015	23:07	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/27/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/27/2015	23:07	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	4:44	SH

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Contact: TBD TBD
Client #: 1688

Receipt Date: 21-Apr-15
Report Date: 13-May-15

Sample Date: 21-Apr-15
SDG #: SDG-105268
Lab Sample ID: LSID-232211
Sample ID: FB-4/21

Approved By:

Van Ward

Van Ward
Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/27/2015	23:29	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/27/2015		WSF
Diisopropyl Ether (DIPE)	<0.01	0.01	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/27/2015	23:29	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	5:13	SH

Davis & Brown

PO Box 15038
Quincy, SC 29506
(843) 665-6746 FAX: (843) 629-1444

Certificate of Analysis

Client: B.W. STOKES OIL CO.
P.O. BOX 274
FLORENCE, SC 29503

South Carolina Certification Number: 21117

Contact: TBD TBD

Receipt Date: 21-Apr-15

Client #: 1688

Report Date: 13-May-15

Sample Date: 20-Apr-15

SDG #: SDG-105268

Approved By:

Van Ward

Lab Sample ID: LSID-232212

Van Ward

Sample ID: TRIP BLANK

Lab Director

Parameter	Reporting		Unit	Method	Flag	Date	Time	Analyst
	Result	Limit						
1,2-Dichloroethane	<0.001	0.001	mg/L	8260B	S11A	4/29/2015	12:14	NP
Benzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
BTEX, Total	<0.005	0.005	mg/L	EPA 8260B		4/29/2015		WSF
Diisopropyl Ether (DIPE)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Ethanol	<0.100	0.1	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Ethyl tert-butanol (ETBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Ethyl tert-butyl ether (ETBE)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Ethylbenzene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Methyl tert-Butyl Ether	<0.001	0.001	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Napthalene	<0.005	0.005	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Tert-amyl alcohol (TAA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Tert-amyl methyl ether (TAME)	<0.010	0.01	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Tert-butyl alcohol (TBA)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Tert-butyl formate (TBF)	<0.100	0.1	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Toluene	<0.001	0.001	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
Xylenes, Total	<0.002	0.002	mg/L	EPA 8260B	S11A	4/29/2015	12:14	NP
EDB	<0.020	0.02	ug/L	SW 846 8011	S11A	4/25/2015	5:42	SH

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-001

Client Sample ID: 232192
 Collection Date: 4/21/2015 12:33:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	50		ug/L	206524	50	04/28/2015 11:07	NP
Benzene	7000	50		ug/L	206524	50	04/28/2015 11:07	NP
Ethylbenzene	1100	50		ug/L	206524	50	04/28/2015 11:07	NP
m,p-Xylene	4900	50		ug/L	206524	50	04/28/2015 11:07	NP
Methyl tert-butyl ether	11000	100		ug/L	206524	100	04/28/2015 18:18	NP
Naphthalene	BRL	250		ug/L	206524	50	04/28/2015 11:07	NP
o-Xylene	2400	50		ug/L	206524	50	04/28/2015 11:07	NP
Toluene	18000	100		ug/L	206524	100	04/28/2015 18:18	NP
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	206524	50	04/28/2015 11:07	NP
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	206524	100	04/28/2015 18:18	NP
Surr: Dibromofluoromethane	98.6	70-130		%REC	206524	50	04/28/2015 11:07	NP
Surr: Dibromofluoromethane	99.4	70-130		%REC	206524	100	04/28/2015 18:18	NP
Surr: Toluene-d8	99.4	70-130		%REC	206524	50	04/28/2015 11:07	NP
Surr: Toluene-d8	101	70-130		%REC	206524	100	04/28/2015 18:18	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	5000		ug/L	206524	50	04/28/2015 11:07	NP
Ethanol	BRL	5000		ug/L	206524	50	04/28/2015 11:07	NP
Ethyl tert-butyl ether	BRL	5000		ug/L	206524	50	04/28/2015 11:07	NP
Isopropyl ether	2700	500		ug/L	206524	50	04/28/2015 11:07	NP
tert-Amyl alcohol	21000	5000		ug/L	206524	50	04/28/2015 11:07	NP
tert-Amyl methyl ether	1100	500		ug/L	206524	50	04/28/2015 11:07	NP
tert-Butyl Alcohol	BRL	5000		ug/L	206524	50	04/28/2015 11:07	NP
tert-Butyl formate	BRL	5000		ug/L	206524	50	04/28/2015 11:07	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	1.07	0.201		ug/L	206375	10	04/25/2015 23:49	SH
Surr: 4-Bromofluorobenzene	93.6	64.7-140		%REC	206375	1	04/24/2015 18:44	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-002

Client Sample ID: 232193
 Collection Date: 4/21/2015 11:58:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 11:29	NP
Benzene	1.9	1.0		ug/L	206524	1	04/28/2015 11:29	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 11:29	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 11:29	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 11:29	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 11:29	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 11:29	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 11:29	NP
Surr: 4-Bromofluorobenzene	96.3	70-130		%REC	206524	1	04/28/2015 11:29	NP
Surr: Dibromofluoromethane	101	70-130		%REC	206524	1	04/28/2015 11:29	NP
Surr: Toluene-d8	101	70-130		%REC	206524	1	04/28/2015 11:29	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 11:29	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 11:29	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 11:29	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 11:29	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 11:29	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 11:29	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 11:29	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 11:29	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 19:41	SH
Surr: 4-Bromofluorobenzene	103	64.7-140		%REC	206375	1	04/24/2015 19:41	SH

Qualifiers:

* Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-003

Client Sample ID: 232194
 Collection Date: 4/21/2015 1:48:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,2-Dichloroethane	BRL	100		ug/L	206524	100	04/28/2015 10:21	NP
Benzene	780	100		ug/L	206524	100	04/28/2015 10:21	NP
Ethylbenzene	2000	100		ug/L	206524	100	04/28/2015 10:21	NP
m,p-Xylene	7200	100		ug/L	206524	100	04/28/2015 10:21	NP
Methyl tert-butyl ether	BRL	100		ug/L	206524	100	04/28/2015 10:21	NP
Naphthalene	BRL	500		ug/L	206524	100	04/28/2015 10:21	NP
o-Xylene	2100	100		ug/L	206524	100	04/28/2015 10:21	NP
Toluene	2800	100		ug/L	206524	100	04/28/2015 10:21	NP
Surr: 4-Bromofluorobenzene	99	70-130		%REC	206524	100	04/28/2015 10:21	NP
Surr: Dibromofluoromethane	103	70-130		%REC	206524	100	04/28/2015 10:21	NP
Surr: Toluene-d8	101	70-130		%REC	206524	100	04/28/2015 10:21	NP
Oxygenates SW8260B (SW5030B)								
3,3-Dimethyl-1-butanol	BRL	10000		ug/L	206524	100	04/28/2015 10:21	NP
Ethanol	BRL	10000		ug/L	206524	100	04/28/2015 10:21	NP
Ethyl tert-butyl ether	BRL	10000		ug/L	206524	100	04/28/2015 10:21	NP
Isopropyl ether	BRL	1000		ug/L	206524	100	04/28/2015 10:21	NP
tert-Amyl alcohol	BRL	10000		ug/L	206524	100	04/28/2015 10:21	NP
tert-Amyl methyl ether	BRL	1000		ug/L	206524	100	04/28/2015 10:21	NP
tert-Butyl Alcohol	BRL	10000		ug/L	206524	100	04/28/2015 10:21	NP
tert-Butyl formate	BRL	10000		ug/L	206524	100	04/28/2015 10:21	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011 (SW8011)								
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 20:10	SH
Surr: 4-Bromofluorobenzene	102	64.7-140		%REC	206375	1	04/24/2015 20:10	SH

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-004

Client Sample ID: 232195
 Collection Date: 4/21/2015 1:05:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	100		ug/L	206524	100	04/28/2015 10:44	NP
Benzene	16000	100		ug/L	206524	100	04/28/2015 10:44	NP
Ethylbenzene	2500	100		ug/L	206524	100	04/28/2015 10:44	NP
m,p-Xylene	9700	100		ug/L	206524	100	04/28/2015 10:44	NP
Methyl tert-butyl ether	9200	100		ug/L	206524	100	04/28/2015 10:44	NP
Naphthalene	510	500		ug/L	206524	100	04/28/2015 10:44	NP
o-Xylene	4500	100		ug/L	206524	100	04/28/2015 10:44	NP
Toluene	33000	500		ug/L	206524	500	04/28/2015 17:56	NP
Surr: 4-Bromofluorobenzene	97.2	70-130		%REC	206524	500	04/28/2015 17:56	NP
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	206524	100	04/28/2015 10:44	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	500	04/28/2015 17:56	NP
Surr: Dibromofluoromethane	97.7	70-130		%REC	206524	100	04/28/2015 10:44	NP
Surr: Toluene-d8	102	70-130		%REC	206524	500	04/28/2015 17:56	NP
Surr: Toluene-d8	101	70-130		%REC	206524	100	04/28/2015 10:44	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	10000		ug/L	206524	100	04/28/2015 10:44	NP
Ethanol	BRL	10000		ug/L	206524	100	04/28/2015 10:44	NP
Ethyl tert-butyl ether	BRL	10000		ug/L	206524	100	04/28/2015 10:44	NP
Isopropyl ether	4300	1000		ug/L	206524	100	04/28/2015 10:44	NP
tert-Amyl alcohol	78000	10000		ug/L	206524	100	04/28/2015 10:44	NP
tert-Amyl methyl ether	1200	1000		ug/L	206524	100	04/28/2015 10:44	NP
tert-Butyl Alcohol	BRL	10000		ug/L	206524	100	04/28/2015 10:44	NP
tert-Butyl formate	BRL	10000		ug/L	206524	100	04/28/2015 10:44	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.100		ug/L	206375	5	04/29/2015 21:23	SH
Surr: 4-Bromofluorobenzene	103	64.7-140		%REC	206375	1	04/24/2015 21:07	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-005

Client Sample ID: 232196
 Collection Date: 4/21/2015 3:05:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 18:41	NP
Benzene	67	1.0		ug/L	206524	1	04/28/2015 18:41	NP
Ethylbenzene	49	1.0		ug/L	206524	1	04/28/2015 18:41	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 18:41	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 18:41	NP
Naphthalene	93	5.0		ug/L	206524	1	04/28/2015 18:41	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 18:41	NP
Toluene	3.9	1.0		ug/L	206524	1	04/28/2015 18:41	NP
Surr: 4-Bromofluorobenzene	101	70-130		%REC	206524	1	04/28/2015 18:41	NP
Surr: Dibromofluoromethane	100	70-130		%REC	206524	1	04/28/2015 18:41	NP
Surr: Toluene-d8	100	70-130		%REC	206524	1	04/28/2015 18:41	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 18:41	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 18:41	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 18:41	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 18:41	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 18:41	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 18:41	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 18:41	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 18:41	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 21:36	SH
Surr: 4-Bromofluorobenzene	94.2	64.7-140		%REC	206375	1	04/24/2015 21:36	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-006

Client Sample ID: 232197
 Collection Date: 4/21/2015 2:28:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 19:04	NP
Benzene	400	10		ug/L	206524	10	04/29/2015 15:38	NP
Ethylbenzene	420	10		ug/L	206524	10	04/29/2015 15:38	NP
m,p-Xylene	400	1.0		ug/L	206524	1	04/28/2015 19:04	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 19:04	NP
Naphthalene	310	50		ug/L	206524	10	04/29/2015 15:38	NP
o-Xylene	27	1.0		ug/L	206524	1	04/28/2015 19:04	NP
Toluene	40	1.0		ug/L	206524	1	04/28/2015 19:04	NP
Surr: 4-Bromofluorobenzene	97.8	70-130		%REC	206524	10	04/29/2015 15:38	NP
Surr: 4-Bromofluorobenzene	103	70-130		%REC	206524	1	04/28/2015 19:04	NP
Surr: Dibromofluoromethane	96.5	70-130		%REC	206524	1	04/28/2015 19:04	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	10	04/29/2015 15:38	NP
Surr: Toluene-d8	98.8	70-130		%REC	206524	1	04/28/2015 19:04	NP
Surr: Toluene-d8	101	70-130		%REC	206524	10	04/29/2015 15:38	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 19:04	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 19:04	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 19:04	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 19:04	NP
tert-Amyl alcohol	230	100		ug/L	206524	1	04/28/2015 19:04	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 19:04	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 19:04	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 19:04	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 22:04	SH
Surr: 4-Bromofluorobenzene	97.7	64.7-140		%REC	206375	1	04/24/2015 22:04	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-007

Client Sample ID: 232198
 Collection Date: 4/21/2015 11:25:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 12:15	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 12:15	NP
Surr: 4-Bromofluorobenzene	94.8	70-130		%REC	206524	1	04/28/2015 12:15	NP
Surr: Dibromofluoromethane	101	70-130		%REC	206524	1	04/28/2015 12:15	NP
Surr: Toluene-d8	99.5	70-130		%REC	206524	1	04/28/2015 12:15	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 12:15	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 12:15	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 12:15	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 12:15	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 12:15	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 12:15	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 12:15	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 12:15	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 22:33	SH
Surr: 4-Bromofluorobenzene	96.8	64.7-140		%REC	206375	1	04/24/2015 22:33	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-008

Client Sample ID: 232199
 Collection Date: 4/20/2015 2:05:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 12:37	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 12:37	NP
Surr: 4-Bromofluorobenzene	95.1	70-130		%REC	206524	1	04/28/2015 12:37	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	1	04/28/2015 12:37	NP
Surr: Toluene-d8	101	70-130		%REC	206524	1	04/28/2015 12:37	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 12:37	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 12:37	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 12:37	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 12:37	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 12:37	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 12:37	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 12:37	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 12:37	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 23:01	SH
Surr: 4-Bromofluorobenzene	99.7	64.7-140		%REC	206375	1	04/24/2015 23:01	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-009

Client Sample ID: 232200
 Collection Date: 4/20/2015 1:30:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 13:00	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 13:00	NP
Surr: 4-Bromofluorobenzene	95.8	70-130		%REC	206524	1	04/28/2015 13:00	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	1	04/28/2015 13:00	NP
Surr: Toluene-d8	101	70-130		%REC	206524	1	04/28/2015 13:00	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 13:00	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 13:00	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 13:00	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 13:00	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 13:00	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 13:00	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 13:00	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 13:00	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 23:30	SH
Surr: 4-Bromofluorobenzene	96.4	64.7-140		%REC	206375	1	04/24/2015 23:30	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client:	Davis & Brown	Client Sample ID:	232201
Project Name:	232192-232212	Collection Date:	4/20/2015 1:02:00 PM
Lab ID:	1504J47-010	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 13:23	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 13:23	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 13:23	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 13:23	NP
Methyl tert-butyl ether	8.8	1.0		ug/L	206524	1	04/28/2015 13:23	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 13:23	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 13:23	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 13:23	NP
Surr: 4-Bromofluorobenzene	95.7	70-130		%REC	206524	1	04/28/2015 13:23	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	1	04/28/2015 13:23	NP
Surr: Toluene-d8	99.1	70-130		%REC	206524	1	04/28/2015 13:23	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 13:23	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 13:23	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 13:23	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 13:23	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 13:23	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 13:23	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 13:23	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 13:23	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/24/2015 23:58	SH
Surr: 4-Bromofluorobenzene	108	64.7-140		%REC	206375	1	04/24/2015 23:58	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-011

Client Sample ID: 232202
 Collection Date: 4/20/2015 12:30:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 13:45	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 13:45	NP
Surr: 4-Bromofluorobenzene	94.9	70-130		%REC	206524	1	04/28/2015 13:45	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	1	04/28/2015 13:45	NP
Surr: Toluene-d8	102	70-130		%REC	206524	1	04/28/2015 13:45	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 13:45	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 13:45	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 13:45	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 13:45	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 13:45	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 13:45	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 13:45	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 13:45	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 00:27	SH
Surr: 4-Bromofluorobenzene	97.4	64.7-140		%REC	206375	1	04/25/2015 00:27	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-012

Client Sample ID: 232203
 Collection Date: 4/20/2015 10:15:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/29/2015 16:00	NP
Benzene	320	10		ug/L	206524	10	04/28/2015 11:52	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/29/2015 16:00	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/29/2015 16:00	NP
Methyl tert-butyl ether	940	10		ug/L	206524	10	04/28/2015 11:52	NP
Naphthalene	43	5.0		ug/L	206524	1	04/29/2015 16:00	NP
o-Xylene	96	1.0		ug/L	206524	1	04/29/2015 16:00	NP
Toluene	2.8	1.0		ug/L	206524	1	04/29/2015 16:00	NP
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	206524	1	04/29/2015 16:00	NP
Surr: 4-Bromofluorobenzene	97.3	70-130		%REC	206524	10	04/28/2015 11:52	NP
Surr: Dibromofluoromethane	96.5	70-130		%REC	206524	1	04/29/2015 16:00	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	10	04/28/2015 11:52	NP
Surr: Toluene-d8	99	70-130		%REC	206524	1	04/29/2015 16:00	NP
Surr: Toluene-d8	101	70-130		%REC	206524	10	04/28/2015 11:52	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 19:26	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 19:26	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 19:26	NP
Isopropyl ether	110	10		ug/L	206524	1	04/28/2015 19:26	NP
tert-Amyl alcohol	400	100		ug/L	206524	1	04/28/2015 19:26	NP
tert-Amyl methyl ether	42	10		ug/L	206524	1	04/28/2015 19:26	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 19:26	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 19:26	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 00:56	SH
Surr: 4-Bromofluorobenzene	118	64.7-140		%REC	206375	1	04/25/2015 00:56	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-013

Client Sample ID: 232204
 Collection Date: 4/21/2015 10:45:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 14:08	NP
Benzene	58	1.0		ug/L	206524	1	04/28/2015 14:08	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 14:08	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 14:08	NP
Methyl tert-butyl ether	160	1.0		ug/L	206524	1	04/28/2015 14:08	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 14:08	NP
o-Xylene	1.7	1.0		ug/L	206524	1	04/28/2015 14:08	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 14:08	NP
Surr: 4-Bromofluorobenzene	94.3	70-130		%REC	206524	1	04/28/2015 14:08	NP
Surr: Dibromofluoromethane	101	70-130		%REC	206524	1	04/28/2015 14:08	NP
Surr: Toluene-d8	99.9	70-130		%REC	206524	1	04/28/2015 14:08	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 14:08	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 14:08	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 14:08	NP
Isopropyl ether	27	10		ug/L	206524	1	04/28/2015 14:08	NP
tert-Amyl alcohol	140	100		ug/L	206524	1	04/28/2015 14:08	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 14:08	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 14:08	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 14:08	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 01:53	SH
Surr: 4-Bromofluorobenzene	105	64.7-140		%REC	206375	1	04/25/2015 01:53	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 1-May-15

Client: Davis & Brown
Project Name: 232192-232212
Lab ID: 1504J47-014

Client Sample ID: 232205
Collection Date: 4/21/2015 10:48:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 14:31	NP
Benzene	56	1.0		ug/L	206524	1	04/28/2015 14:31	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 14:31	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 14:31	NP
Methyl tert-butyl ether	160	1.0		ug/L	206524	1	04/28/2015 14:31	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 14:31	NP
o-Xylene	1.7	1.0		ug/L	206524	1	04/28/2015 14:31	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 14:31	NP
Surr: 4-Bromofluorobenzene	94.5	70-130		%REC	206524	1	04/28/2015 14:31	NP
Surr: Dibromofluoromethane	100	70-130		%REC	206524	1	04/28/2015 14:31	NP
Surr: Toluene-d8	101	70-130		%REC	206524	1	04/28/2015 14:31	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 14:31	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 14:31	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 14:31	NP
Isopropyl ether	27	10		ug/L	206524	1	04/28/2015 14:31	NP
tert-Amyl alcohol	150	100		ug/L	206524	1	04/28/2015 14:31	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 14:31	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 14:31	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 14:31	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 02:21	SH
Surr: 4-Bromofluorobenzene	107	64.7-140		%REC	206375	1	04/25/2015 02:21	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-015

Client Sample ID: 232206
 Collection Date: 4/20/2015 11:48:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 15:40	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 15:40	NP
Surr: 4-Bromofluorobenzene	93.2	70-130		%REC	206524	1	04/28/2015 15:40	NP
Surr: Dibromofluoromethane	104	70-130		%REC	206524	1	04/28/2015 15:40	NP
Surr: Toluene-d8	101	70-130		%REC	206524	1	04/28/2015 15:40	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 15:40	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 15:40	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 15:40	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 15:40	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 15:40	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 15:40	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 15:40	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 15:40	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 02:50	SH
Surr: 4-Bromofluorobenzene	105	64.7-140		%REC	206375	1	04/25/2015 02:50	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-016

Client Sample ID: 232207
 Collection Date: 4/20/2015 12:09:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 16:25	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 16:25	NP
Surr: 4-Bromofluorobenzene	94.3	70-130		%REC	206524	1	04/28/2015 16:25	NP
Surr: Dibromofluoromethane	105	70-130		%REC	206524	1	04/28/2015 16:25	NP
Surr: Toluene-d8	103	70-130		%REC	206524	1	04/28/2015 16:25	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 16:25	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 16:25	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 16:25	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 16:25	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 16:25	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 16:25	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 16:25	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 16:25	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 03:19	SH
Surr: 4-Bromofluorobenzene	100	64.7-140		%REC	206375	1	04/25/2015 03:19	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-017

Client Sample ID: 232208
 Collection Date: 4/21/2015 4:15:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 16:48	NP
Benzene	8.2	1.0		ug/L	206524	1	04/28/2015 16:48	NP
Ethylbenzene	2.5	1.0		ug/L	206524	1	04/28/2015 16:48	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 16:48	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/28/2015 16:48	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 16:48	NP
o-Xylene	1.4	1.0		ug/L	206524	1	04/28/2015 16:48	NP
Toluene	4.8	1.0		ug/L	206524	1	04/28/2015 16:48	NP
Surr: 4-Bromofluorobenzene	96.2	70-130		%REC	206524	1	04/28/2015 16:48	NP
Surr: Dibromofluoromethane	102	70-130		%REC	206524	1	04/28/2015 16:48	NP
Surr: Toluene-d8	102	70-130		%REC	206524	1	04/28/2015 16:48	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 16:48	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 16:48	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 16:48	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 16:48	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 16:48	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 16:48	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 16:48	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 16:48	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 03:48	SH
Surr: 4-Bromofluorobenzene	105	64.7-140		%REC	206375	1	04/25/2015 03:48	SH

Qualifiers:

- Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-018

Client Sample ID: 232209
 Collection Date: 4/20/2015 2:20:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/28/2015 17:11	NP
Benzene	BRL	1.0		ug/L	206524	1	04/28/2015 17:11	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/28/2015 17:11	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 17:11	NP
Methyl tert-butyl ether	9.5	1.0		ug/L	206524	1	04/28/2015 17:11	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/28/2015 17:11	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/28/2015 17:11	NP
Toluene	BRL	1.0		ug/L	206524	1	04/28/2015 17:11	NP
Surr: 4-Bromofluorobenzene	92.5	70-130		%REC	206524	1	04/28/2015 17:11	NP
Surr: Dibromofluoromethane	104	70-130		%REC	206524	1	04/28/2015 17:11	NP
Surr: Toluene-d8	102	70-130		%REC	206524	1	04/28/2015 17:11	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/28/2015 17:11	NP
Ethanol	BRL	100		ug/L	206524	1	04/28/2015 17:11	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/28/2015 17:11	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/28/2015 17:11	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/28/2015 17:11	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/28/2015 17:11	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/28/2015 17:11	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/28/2015 17:11	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 04:16	SH
Surr: 4-Bromofluorobenzene	101	64.7-140		%REC	206375	1	04/25/2015 04:16	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-019

Client Sample ID: 232210
 Collection Date: 4/20/2015 3:00:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
Benzene	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/27/2015 23:07	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
Toluene	BRL	1.0		ug/L	206524	1	04/27/2015 23:07	NP
Surr: 4-Bromofluorobenzene	95.3	70-130		%REC	206524	1	04/27/2015 23:07	NP
Surr: Dibromofluoromethane	98.2	70-130		%REC	206524	1	04/27/2015 23:07	NP
Surr: Toluene-d8	98.4	70-130		%REC	206524	1	04/27/2015 23:07	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/27/2015 23:07	NP
Ethanol	BRL	100		ug/L	206524	1	04/27/2015 23:07	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/27/2015 23:07	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/27/2015 23:07	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/27/2015 23:07	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/27/2015 23:07	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/27/2015 23:07	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/27/2015 23:07	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 04:44	SH
Surr: 4-Bromofluorobenzene	104	64.7-140		%REC	206375	1	04/25/2015 04:44	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client:	Davis & Brown	Client Sample ID:	232211
Project Name:	232192-232212	Collection Date:	4/21/2015 4:45:00 PM
Lab ID:	1504J47-020	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
Benzene	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
Ethylbenzene	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
m,p-Xylene	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
Naphthalene	BRL	5.0		ug/L	206524	1	04/27/2015 23:29	NP
o-Xylene	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
Toluene	BRL	1.0		ug/L	206524	1	04/27/2015 23:29	NP
Surr: 4-Bromofluorobenzene	94.7	70-130		%REC	206524	1	04/27/2015 23:29	NP
Surr: Dibromofluoromethane	99.2	70-130		%REC	206524	1	04/27/2015 23:29	NP
Surr: Toluene-d8	102	70-130		%REC	206524	1	04/27/2015 23:29	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206524	1	04/27/2015 23:29	NP
Ethanol	BRL	100		ug/L	206524	1	04/27/2015 23:29	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206524	1	04/27/2015 23:29	NP
Isopropyl ether	BRL	10		ug/L	206524	1	04/27/2015 23:29	NP
tert-Amyl alcohol	BRL	100		ug/L	206524	1	04/27/2015 23:29	NP
tert-Amyl methyl ether	BRL	10		ug/L	206524	1	04/27/2015 23:29	NP
tert-Butyl Alcohol	BRL	100		ug/L	206524	1	04/27/2015 23:29	NP
tert-Butyl formate	BRL	100		ug/L	206524	1	04/27/2015 23:29	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206375	1	04/25/2015 05:13	SH
Surr: 4-Bromofluorobenzene	104	64.7-140		%REC	206375	1	04/25/2015 05:13	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Lab ID: 1504J47-021

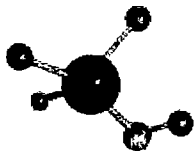
Client Sample ID: 232212
 Collection Date: 4/20/2015 9:00:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260B			(SW5030B)			
1,2-Dichloroethane	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
Benzene	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
Ethylbenzene	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
m,p-Xylene	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
Methyl tert-butyl ether	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
Naphthalene	BRL	5.0		ug/L	206613	1	04/29/2015 12:14	NP
o-Xylene	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
Toluene	BRL	1.0		ug/L	206613	1	04/29/2015 12:14	NP
Surr: 4-Bromofluorobenzene	93.3	70-130		%REC	206613	1	04/29/2015 12:14	NP
Surr: Dibromofluoromethane	103	70-130		%REC	206613	1	04/29/2015 12:14	NP
Surr: Toluene-d8	104	70-130		%REC	206613	1	04/29/2015 12:14	NP
Oxygenates		SW8260B			(SW5030B)			
3,3-Dimethyl-1-butanol	BRL	100		ug/L	206613	1	04/29/2015 12:14	NP
Ethanol	BRL	100		ug/L	206613	1	04/29/2015 12:14	NP
Ethyl tert-butyl ether	BRL	100		ug/L	206613	1	04/29/2015 12:14	NP
Isopropyl ether	BRL	10		ug/L	206613	1	04/29/2015 12:14	NP
tert-Amyl alcohol	BRL	100		ug/L	206613	1	04/29/2015 12:14	NP
tert-Amyl methyl ether	BRL	10		ug/L	206613	1	04/29/2015 12:14	NP
tert-Butyl Alcohol	BRL	100		ug/L	206613	1	04/29/2015 12:14	NP
tert-Butyl formate	BRL	100		ug/L	206613	1	04/29/2015 12:14	NP
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.020		ug/L	206376	1	04/25/2015 05:42	SH
Surr: 4-Bromofluorobenzene	111	64.7-140		%REC	206376	1	04/25/2015 05:42	SH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

Davis & Brown
P.O. Box 15038
Quinby SC 29506

ATTENTION
Scott Fields

PROJECT ID
232192-232212

LABORATORY REPORT NUMBER
1504J47

DATE
May 01, 2015

Primary Data Review By

Chantelle Kanhai

Chantelle Kanhai
Project Manager, AES

Secondary Data Review By

Ashley Amick

Project Manager, Access Analytical
aamick@axs-inc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 883.315.4243

Access/AES

P.O.#

15-0-762

1504547



DAVIS & BROWN

124 W. Melver Road
Florence, SC 29501PH: 843-665-6746
FAX: 843-656-2208

PAGE # 1 OF 3

REGULATORY: YES NO

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: P1
STANDARD RUSH P2

CLIENT:

Davis & Brown

SAMPLE ANALYSIS REQUESTED

Preservative

B B B B B

ADDRESS:

PHONE:

FAX:

USE CODES TO INDICATE IF SAMPLE WAS
FILTERED OR PRESERVED: A = HNO₃B = HCL D = H₂SO₄ F = FILTRATIONC = NaOH E = Na₂S₂O₃ G = ZINCACETATE

PROGRAM AREA: D = DRINKING WATER

G = GROUNDWATER S = SOLID SL = SLUDGE

W = WASTEWATER O = OTHER

PLEASE PRINT LEGIBLY

SHADED AREAS FOR LAB USE ONLY

NOTES

LAB ID

SAMPLE ID

DATE

TIME

INITIAL

TYPE: Grab / Composite

TOTAL # OF CONTAINERS

BTEX, Naphthalene

M+BE

1,2 DCA

EDB

Oxygenates

PROGRAM AREA

Fill in the Number of Containers for EACH Test

232192

4/21/15

1233

G

5

1

1

1

1

1

G

232193

1158

1

1

1

1

1

1

1

232194

1348

1

1

1

1

1

1

1

232195

1305

1

1

1

1

1

1

1

232196

1505

1

1

1

1

1

1

1

232197

1428

1

1

1

1

1

1

1

232198

1125

1

1

1

1

1

1

1

232199

4/20/15

1405

1

1

1

1

1

1

1

SAMPLER SIGNATURE

FLOW INFO

ICE
YES NO PACKRECEIPT
TEMP: 3.5°C

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Comments:

Access/AES

P.O.#

15-0-762

1504547



DAVIS & BROWN

124 W. McIver Road
Florence, SC 29501PH: 843-665-6746
FAX: 843-656-2208

PAGE # 3 OF 3

REGULATORY: YES NO

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: _____ P1
STANDARD RUSH _____ P2

CLIENT:

Davis & Brown

ADDRESS:

PHONE:

FAX:

SAMPLE ANALYSIS REQUESTED

Preservative

TYPE: Grab / Composite

TOTAL # OF CONTAINERS

B B B B B

BTEX, Naphthalene

M+DE

1,2 DCA

Oxigenates

EDB

USE CODES TO INDICATE IF SAMPLE WAS

FILTERED OR PRESERVED: A = HNO₃B = HCL D = H₂SO₄ F = FILTRATIONC = NaOH E = Na₂S₂O₃ G = ZINCACETATE

PROGRAM AREA: D = DRINKING WATER

G = GROUNDWATER S = SOLID SL = SLUDGE

W = WASTEWATER O = OTHER

PLEASE PRINT LEGIBLY

SHADED AREAS FOR LAB USE ONLY

NOTES

LAB ID

SAMPLE ID DATE TIME INITIAL

232208

4/21/15

1645

G

5

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232209

4/20/15

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232210

4/20/15

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232211

4/21/15

1645

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232212

4/20/15

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SAMPLER SIGNATURE

FLOW INFO

ICE YES NO PACK

RECEIPT TEMP 3.5°C

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Comments:

Client: Davis & Brown
Project: 232192-232212
Lab ID: 1504J47

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1504J47-001, -003 and -004 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Micro-extractable VOC Analysis by Method 8011:

Matrix spike duplicate analyses were not performed with Batch 206375 due to insufficient sample volume.

Matrix spike duplicate analyses were not performed with Batch 206376 due to insufficient sample volume.

Due to sample matrix, sample 1504J47-004 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Access-Davis & Brown

Work Order Number 1504547

Checklist completed by Thompson Signature 4/23/15 Date

Carrier name: FedEx ☒ UPS ☐ Courier ☐ Client ☐ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ}\leq 6^{\circ}\text{C}$) * Yes ☒ No ☐

Cooler #1 3.5 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☐ No ☒

Proceed with Standard TAT as per project history? Yes ☒ No ☐ Not Applicable ☐

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 1-May-15

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206375

Sample ID: MB-206375	Client ID:	Units: ug/L	Prep Date: 04/24/2015	Run No: 290545							
SampleType: MBLK	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011	BatchID: 206375	Analysis Date: 04/24/2015	Seq No: 6186910							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane	BRL	0.020									
Surr: 4-Bromofluorobenzene	5.280	0	5.000		106	64.7	140				

Sample ID: LCS-206375	Client ID:						Units: ug/L	Prep Date: 04/24/2015	Run No: 290545		
SampleType: LCS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011						BatchID: 206375	Analysis Date: 04/24/2015	Seq No: 6186911		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane	0.1090	0.020	0.1000		109	60	140				
Surr: 4-Bromofluorobenzene	5.117	0	5.000		102	64.7	140				

Sample ID: LCSD-206375	Client ID:						Units: ug/L	Prep Date: 04/24/2015	Run No: 290545		
SampleType: LCSD	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011						BatchID: 206375	Analysis Date: 04/24/2015	Seq No: 6186912		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane	0.1120	0.020	0.1000		112	60	140	0.1090	2.71	20	
Surr: 4-Bromofluorobenzene	5.045	0	5.000		101	64.7	140	5.117	0	0	

Sample ID: 1504J47-001BMS	Client ID: 232192	Units: ug/L					Prep Date: 04/24/2015	Run No: 290545			
SampleType: MS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011	BatchID: 206375					Analysis Date: 04/24/2015	Seq No: 6186923			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	4.703	0	5.087		92.4	64.7	140				
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Sample ID: 1504J47-001BMS	Client ID: 232192	Units: ug/L	Prep Date: 04/24/2015	Run No: 290545							
SampleType: MS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011	BatchID: 206375	Analysis Date: 04/26/2015	Seq No: 6186985							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane	1.262	0.203	0.1017	1.066	192	62.8	141				S
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Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

ANALYTICAL QC SUMMARY REPORT

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

BatchID: 206376

Sample ID: MB-206376	Client ID:					Units: ug/L	Prep Date: 04/24/2015	Run No: 290545			
SampleType: MBLK	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 206376	Analysis Date: 04/24/2015	Seq No: 6186914			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	BRL	0.020									
Surr: 4-Bromofluorobenzene	5.266	0	5.000		105	64.7	140				

Sample ID: LCS-206376	Client ID:					Units: ug/L	Prep Date: 04/24/2015	Run No: 290545			
SampleType: LCS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 206376	Analysis Date: 04/24/2015	Seq No: 6186915			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.1110	0.020	0.1000		111	60	140				
Surr: 4-Bromofluorobenzene	5.135	0	5.000		103	64.7	140				

Sample ID: LCSD-206376	Client ID:					Units: ug/L	Prep Date: 04/24/2015	Run No: 290545			
SampleType: LCSD	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 206376	Analysis Date: 04/24/2015	Seq No: 6186916			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.1120	0.020	0.1000		112	60	140	0.1110	0.897	20	
Surr: 4-Bromofluorobenzene	5.061	0	5.000		101	64.7	140	5.135	0	0	

Sample ID: 1504J63-001BMS	Client ID:					Units: ug/L	Prep Date: 04/24/2015	Run No: 290545			
SampleType: MS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 206376	Analysis Date: 04/25/2015	Seq No: 6186947			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	4.958	0	4.925		101	64.7	140				

Sample ID: 1504J63-001BMS	Client ID:					Units: ug/L	Prep Date: 04/24/2015	Run No: 290545			
SampleType: MS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 206376	Analysis Date: 04/26/2015	Seq No: 6186987			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.7290	0.197	0.0985	1.262	-541	62.8	141				S

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206524

Sample ID: MB-206524	Client ID:					Units: ug/L	Prep Date: 04/27/2015	Run No: 290666			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 206524				Analysis Date: 04/27/2015	Seq No: 6182150			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	47.91	0	50.00		95.8	70	130				
Surr: Dibromofluoromethane	49.44	0	50.00		98.9	70	130				
Surr: Toluene-d8	49.19	0	50.00		98.4	70	130				

Sample ID: MB-206524	Client ID:					Units: ug/L	Prep Date: 04/27/2015	Run No: 290666			
SampleType: MBLK	TestCode: Oxygenates	SW8260B	BatchID: 206524				Analysis Date: 04/27/2015	Seq No: 6182210			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantization range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

ANALYTICAL QC SUMMARY REPORT

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

BatchID: 206524

Sample ID: LCS-206524		Client ID:			Units: ug/L		Prep Date: 04/27/2015		Run No: 290735		
SampleType: LCS		TestCode: Volatile Organic Compounds by GC/MS SW8260B			BatchID: 206524		Analysis Date: 04/28/2015		Seq No: 6184578		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	55.30	1.0	50.00		111	70	130				
Benzene	59.14	1.0	50.00		118	70	130				
Ethylbenzene	58.90	1.0	50.00		118	70	130				
m,p-Xylene	116.0	1.0	100.0		116	70	130				
Naphthalene	37.56	5.0	50.00		75.1	70	130				
o-Xylene	58.36	1.0	50.00		117	70	130				
Toluene	53.64	1.0	50.00		107	70	130				
Surr: 4-Bromofluorobenzene	49.67	0	50.00		99.3	70	130				
Surr: Dibromofluoromethane	51.64	0	50.00		103	70	130				
Surr: Toluene-d8	50.34	0	50.00		101	70	130				

Sample ID: LCS-206524		Client ID:			Units: ug/L		Prep Date: 04/27/2015		Run No: 290735		
SampleType: LCS		TestCode: Oxygenates SW8260B			BatchID: 206524		Analysis Date: 04/28/2015		Seq No: 6184611		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	972.6	100	1000		97.3	70	130				
Ethanol	760.5	100	1000		76.1	70	130				
Ethyl tert-butyl ether	208.2	100	200.0		104	70	130				
Isopropyl ether	213.3	10	200.0		107	70	130				
tert-Amyl alcohol	883.6	100	1000		88.4	70	130				
tert-Amyl methyl ether	210.9	10	200.0		105	70	130				
tert-Butyl Alcohol	857.4	100	1000		85.7	70	130				
tert-Butyl formate	995.9	100	1000		99.6	70	130				

Sample ID: 1504J47-005AMS		Client ID: 232196			Units: ug/L		Prep Date: 04/27/2015		Run No: 290666		
SampleType: MS		TestCode: Volatile Organic Compounds by GC/MS SW8260B			BatchID: 206524		Analysis Date: 04/27/2015		Seq No: 6182148		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206524

Sample ID: 1504J47-005AMS		Client ID: 232196		Units: ug/L		Prep Date: 04/27/2015		Run No: 290666			
SampleType: MS		TestCode: Volatile Organic Compounds by GC/MS		BatchID: 206524		Analysis Date: 04/27/2015		Seq No: 6182148			
SW8260B											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20960	500	25000		83.8	71.7	134				
Benzene	22690	500	25000		90.7	70	135				
Ethylbenzene	22360	500	25000		89.4	73.7	135				
m,p-Xylene	44650	500	50000		89.3	70.7	136				
Naphthalene	17540	2500	25000		70.1	53.1	128				
o-Xylene	22410	500	25000		89.6	71.3	137				
Toluene	20710	500	25000		82.8	70.5	137				
Surr: 4-Bromofluorobenzene	24720	0	25000		98.9	70	130				
Surr: Dibromofluoromethane	25300	0	25000		101	70	130				
Surr: Toluene-d8	24840	0	25000		99.3	70	130				

Sample ID: 1504J47-005AMS		Client ID: 232196		Units: ug/L		Prep Date: 04/27/2015		Run No: 290666			
SampleType: MS		TestCode: Oxygenates		BatchID: 206524		Analysis Date: 04/27/2015		Seq No: 6182208			
SW8260B											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	541700	50000	500000		108	61.1	139				
Ethanol	576200	50000	500000		115	61.7	144				
Ethyl tert-butyl ether	99750	50000	100000		99.8	69.6	130				
Isopropyl ether	96400	5000	100000		96.4	70.1	134				
tert-Amyl alcohol	481400	50000	500000		96.3	66.5	145				
tert-Amyl methyl ether	99700	5000	100000		99.7	70.1	127				
tert-Butyl Alcohol	504700	50000	500000		101	70	149				
tert-Butyl formate	433100	50000	500000		86.6	41.5	139				

Sample ID: 1504J47-005AMSD		Client ID: 232196		Units: ug/L		Prep Date: 04/27/2015		Run No: 290666			
SampleType: MSD		TestCode: Volatile Organic Compounds by GC/MS		BatchID: 206524		Analysis Date: 04/27/2015		Seq No: 6182149			
SW8260B											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

ANALYTICAL QC SUMMARY REPORT

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

BatchID: 206524

Sample ID: 1504J47-005AMSD	Client ID: 232196					Units: ug/L	Prep Date: 04/27/2015	Run No: 290666			
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 206524				Analysis Date: 04/27/2015	Seq No: 6182149			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20790	500	25000		83.1	71.7	134	20960	0.815	20	
Benzene	22020	500	25000		88.1	70	135	22690	3.00	20	
Ethylbenzene	22760	500	25000		91.0	73.7	135	22360	1.75	20	
m,p-Xylene	44530	500	50000		89.0	70.7	136	44650	0.269	20	
Naphthalene	16860	2500	25000		67.4	53.1	128	17540	3.95	36.7	
o-Xylene	22600	500	25000		90.4	71.3	137	22410	0.867	20	
Toluene	20430	500	25000		81.7	70.5	137	20710	1.36	20	
Surr: 4-Bromofluorobenzene	24510	0	25000		98.0	70	130	24720	0	0	
Surr: Dibromofluoromethane	24580	0	25000		98.3	70	130	25300	0	0	
Surr: Toluene-d8	24200	0	25000		96.8	70	130	24840	0	0	

Sample ID: 1504J47-005AMSD	Client ID: 232196				Units: ug/L	Prep Date: 04/27/2015	Run No: 290666				
SampleType: MSD	TestCode: Oxygenates	SW8260B	BatchID: 206524			Analysis Date: 04/27/2015	Seq No: 6182209				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	525800	50000	500000		105	61.1	139	541700	2.99	24.9	
Ethanol	559400	50000	500000		112	61.7	144	576200	2.97	27.9	
Ethyl tert-butyl ether	93760	50000	100000		93.8	69.6	130	99750	6.19	20	
Isopropyl ether	91580	5000	100000		91.6	70.1	134	96400	5.13	20	
tert-Amyl alcohol	467300	50000	500000		93.5	66.5	145	481400	2.98	24.8	
tert-Amyl methyl ether	95510	5000	100000		95.5	70.1	127	99700	4.29	20	
tert-Butyl Alcohol	480000	50000	500000		96.0	70	149	504700	5.03	29.4	
tert-Butyl formate	421400	50000	500000		84.3	41.5	139	433100	2.73	21.6	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206613

Sample ID: MB-206613	Client ID:				Units: ug/L	Prep Date: 04/29/2015	Run No: 290820				
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 206613			Analysis Date: 04/29/2015	Seq No: 6186064				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	48.32	0	50.00		96.6	70	130				
Surr: Dibromofluoromethane	50.25	0	50.00		100	70	130				
Surr: Toluene-d8	50.22	0	50.00		100	70	130				

Sample ID: MB-206613	Client ID:	Units: ug/L	Prep Date: 04/29/2015	Run No: 290820							
SampleType: MBLK	TestCode: Oxygenates SW8260B	BatchID: 206613	Analysis Date: 04/29/2015	Seq No: 6186082							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	-10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206613

Sample ID: LCS-206613	Client ID:					Units: ug/L	Prep Date: 04/29/2015	Run No: 290820			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B				BatchID: 206613	Analysis Date: 04/29/2015	Seq No: 6186059			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dichloroethane	45.75	1.0	50.00		91.5	70	130				
Benzene	48.69	1.0	50.00		97.4	70	130				
Ethylbenzene	48.74	1.0	50.00		97.5	70	130				
m,p-Xylene	95.77	1.0	100.0		95.8	70	130				
Naphthalene	35.10	5.0	50.00		70.2	70	130				
o-Xylene	48.45	1.0	50.00		96.9	70	130				
Toluene	44.44	1.0	50.00		88.9	70	130				
Surr: 4-Bromofluorobenzene	49.15	0	50.00		98.3	70	130				
Surr: Dibromofluoromethane	50.49	0	50.00		101	70	130				
Surr: Toluene-d8	49.40	0	50.00		98.8	70	130				

Sample ID: LCS-206613	Client ID:			Units: ug/L	Prep Date: 04/29/2015	Run No: 290820					
SampleType: LCS	TestCode: Oxygenates	SW8260B		BatchID: 206613	Analysis Date: 04/29/2015	Seq No: 6186079					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

3,3-Dimethyl-1-butanol	1020	100	1000		102	70	130				
Ethanol	887.3	100	1000		88.7	70	130				
Ethyl tert-butyl ether	199.9	100	200.0		100.0	70	130				
Isopropyl ether	197.5	10	200.0		98.8	70	130				
tert-Amyl alcohol	904.8	100	1000		90.5	70	130				
tert-Amyl methyl ether	200.9	10	200.0		100	70	130				
tert-Butyl Alcohol	908.4	100	1000		90.8	70	130				
tert-Butyl formate	906.2	100	1000		90.6	70	130				

Sample ID: 1504J63-021AMS	Client ID:				Units: ug/L	Prep Date: 04/29/2015	Run No: 290820				
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 206613			Analysis Date: 04/29/2015	Seq No: 6186061				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206613

Sample ID: 1504J63-021AMS	Client ID:					Units: ug/L	Prep Date: 04/29/2015	Run No: 290820			
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS	SW8260B			BatchID: 206613	Analysis Date: 04/29/2015	Seq No: 6186061				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dichloroethane	432.5	10	500.0		86.5	71.7	134				
Benzene	478.4	10	500.0		95.7	70	135				
Ethylbenzene	474.1	10	500.0		94.8	73.7	135				
m,p-Xylene	934.5	10	1000		93.4	70.7	136				
Naphthalene	321.9	50	500.0		64.4	53.1	128				
o-Xylene	469.6	10	500.0		93.9	71.3	137				
Toluene	435.4	10	500.0		87.1	70.5	137				
Surr: 4-Bromofluorobenzene	498.6	0	500.0		99.7	70	130				
Surr: Dibromofluoromethane	507.2	0	500.0		101	70	130				
Surr: Toluene-d8	502.1	0	500.0		100	70	130				

Sample ID: 1504J63-021AMS	Client ID:					Units: ug/L	Prep Date: 04/29/2015	Run No: 290820			
SampleType: MS	TestCode: Oxygenates	SW8260B	BatchID: 206613				Analysis Date: 04/29/2015	Seq No: 6186080			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

3,3-Dimethyl-1-butanol	9500	1000	10000		95.0	61.1	139				
Ethanol	10070	1000	10000		101	61.7	144				
Ethyl tert-butyl ether	1770	1000	2000		88.5	69.6	130				
Isopropyl ether	1781	100	2000		89.1	70.1	134				
tert-Amyl alcohol	8085	1000	10000		80.8	66.5	145				
tert-Amyl methyl ether	1779	100	2000		88.9	70.1	127				
tert-Butyl Alcohol	8385	1000	10000		83.8	70	149				
tert-Butyl formate	8061	1000	10000		80.6	41.5	139				

Sample ID: 1504J63-021AMSD	Client ID:					Units: ug/L	Prep Date: 04/29/2015	Run No: 290820			
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 206613				Analysis Date: 04/29/2015	Seq No: 6186062			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Davis & Brown
 Project Name: 232192-232212
 Workorder: 1504J47

ANALYTICAL QC SUMMARY REPORT

BatchID: 206613

Sample ID: 1504J63-021AMSD	Client ID:				Units: ug/L	Prep Date: 04/29/2015	Run No: 290820				
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS	SW8260B	BatchID: 206613			Analysis Date: 04/29/2015	Seq No: 6186062				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	419.8	10	500.0		84.0	71.7	134	432.5	2.98	20	
Benzene	456.3	10	500.0		91.3	70	135	478.4	4.73	20	
Ethylbenzene	448.9	10	500.0		89.8	73.7	135	474.1	5.46	20	
m,p-Xylene	888.6	10	1000		88.9	70.7	136	934.5	5.04	20	
Naphthalene	315.2	50	500.0		63.0	53.1	128	321.9	2.10	36.7	
o-Xylene	444.0	10	500.0		88.8	71.3	137	469.6	5.60	20	
Toluene	413.5	10	500.0		82.7	70.5	137	435.4	5.16	20	
Surr: 4-Bromofluorobenzene	490.3	0	500.0		98.1	70	130	498.6	0	0	
Surr: Dibromofluoromethane	504.1	0	500.0		101	70	130	507.2	0	0	
Surr: Toluene-d8	497.0	0	500.0		99.4	70	130	502.1	0	0	

Sample ID: 1504J63-021AMSD	Client ID:					Units: ug/L	Prep Date: 04/29/2015	Run No: 290820			
SampleType: MSD	TestCode: Oxygenates	SW8260B					BatchID: 206613	Analysis Date: 04/29/2015	Seq No: 6186081		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3-Dimethyl-1-butanol	9434	1000	10000		94.3	61.1	139	9500	0.699	24.9	
Ethanol	9827	1000	10000		98.3	61.7	144	10070	2.44	27.9	
Ethyl tert-butyl ether	1742	1000	2000		87.1	69.6	130	1770	1.55	20	
Isopropyl ether	1724	100	2000		86.2	70.1	134	1781	3.25	20	
tert-Amyl alcohol	8157	1000	10000		81.6	66.5	145	8085	0.883	24.8	
tert-Amyl methyl ether	1732	100	2000		86.6	70.1	127	1779	2.68	20	
tert-Butyl Alcohol	8348	1000	10000		83.5	70	149	8385	0.440	29.4	
tert-Butyl formate	7806	1000	10000		78.1	41.5	139	8061	3.21	21.6	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

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Data Qualifiers

Within the attached report, some analytical data may be reported as Qualified Data as indicated by Data Qualifier or flag next to the result. **The data qualifier "S" indicates that the analysis was performed by another South Carolina certified lab. This table summarizes the South Carolina Lab Certification Numbers for those laboratories.**

S	South Carolina Lab Certification Number: 23101
S1	South Carolina Lab Certification Number: 93013
S2	South Carolina Lab Certification Number: 23105
S3	South Carolina Lab Certification Number: 10120
S4	South Carolina Lab Certification Number: 84002
S5	South Carolina Lab Certification Number: 32117
S6	Agricultural Service Laboratory Clemson University
S7	South Carolina Lab Certification Number: 36001
S8	Lab samples were subcontracted. See attached documentation.
S9	South Carolina Lab Certification Number: 94014001; 94014002
S10	South Carolina Lab Certification Number: 84009
S11	South Carolina Lab Certification Number: 96026; 96031; 98001; 73006; 98016 Note: S11A indicates AES Laboratory; S11G indicates GCAL Laboratory
S12	AASHTO R18 Certified
S13	South Carolina Lab Certification Number: 96012
S14	South Carolina Lab Certification Number: 89002
S15	*****
S16	South Carolina Lab Certification Number: 84004
S17	South Carolina Lab Certification Number: 96037001
S18	South Carolina Lab Certification Number: 95005
S19	South Carolina Lab Certification Number: 23104
S20	South Carolina Lab Certification Number: 96027001
S21	South Carolina Lab Certification Number: 21005
S22	South Carolina Lab Certification Number: 24110
S23	South Carolina Lab Certification Number: 84001001
S24	South Carolina Lab Certification Number: 82014001
S25	Sample was analyzed by Microseeps, Inc Laboratory
S26	North Carolina Lab Certification Number: 21 (Wilson Division NC00120)
S27	South Carolina Lab Certification Number: 40569
S28	South Carolina Lab Certification Number: 32571



DAVIS & BROWN

124 W. McIver Road
Florence, SC 29501

PH: 843-665-6746
FAX: 843-656-2208

PAGE # 105268 OF 105268

REGULATORY: YES NO

CLIENT:

OH MEGAS EXXON (USFH 03423)

ADDRESS:

PHONE:

FAX:

CHAIN OF CUSTODY RECORD

SAMPLE ID	DATE	TIME	INITIAL	SAMPLE ANALYSIS REQUESTED										PROGRAM AREA	USE CODES TO INDICATE IF SAMPLE WAS FILTERED OR PRESERVED: B = HCL D = H ₂ SO ₄ F = FILTRATION C = NAOH E = NA ₂ S ₂ O ₃ G = ZINCACETATE PROGRAM AREA: D = DRINKING WATER G = GROUNDWATER S = SOLID SL = SLUDGE W = WASTEWATER O = OTHER	TURNAROUND TIME: STANDARD RUSH P1 P2
				Preservative	TOTAL # OF CONTAINERS	TYPE: Grab / Composite	BTEX, NAPHTH	MTBE	1,2 DCA	OXYGEN	EDB	Fill in the Number of Containers for EACH Test				
MW 9	4/20/15	1330	JK	5	5	G	1	1	1	1	1	1	1	1	6	232200
MW 10	4/20/15	1302	JK	5	5	G	1	1	1	1	1	1	1	1	1	232201
MW 11	4/20/15	1230	JK	5	5	G	1	1	1	1	1	1	1	1	1	232202
MW 12	4/20/15	1015	SK	5	5	G	1	1	1	1	1	1	1	1	1	232203
MW 13	4/21/15	1045	SK	5	5	G	1	1	1	1	1	1	1	1	1	232204
MW 13 (DUP)	4/21/15	1048	SK	5	5	G	1	1	1	1	1	1	1	1	1	232205 232232
MW 21	4/20/15	1148	JK	5	5	G	1	1	1	1	1	1	1	1	1	232206
MW 22	4/20/15	1209	JK	5	5	G	1	1	1	1	1	1	1	1	1	232207

SAMPLER SIGNATURE: Joey Ricks

FLOW INFO

Relinquished by:	Date:	Time:	Relinquished by:	Date:	Time:	Retinquired by:	Date:	Time:
Joey Ricks	4/21/15	1730	Joey Ricks	4/21/15	1730			
Received by:	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
Sharon Floyd	4/21/15	1730						

Comments:

CERTIFICATE OF DISPOSAL

Certify to all that

T K TANK SERVICES, INC.

OF GALLONS 45 Contaminant: NONHAZARDOUS PETROLEUM CONTAMINATED WATER

This is to certify that the above water/product has been disposed of

In accordance with EPA regulations on petroleum contaminated water

O. H. MEGS

4/24/2015

DATE

Crosby Webb Newman

SIGNATURE

APPENDIX K

Contractor Checklist

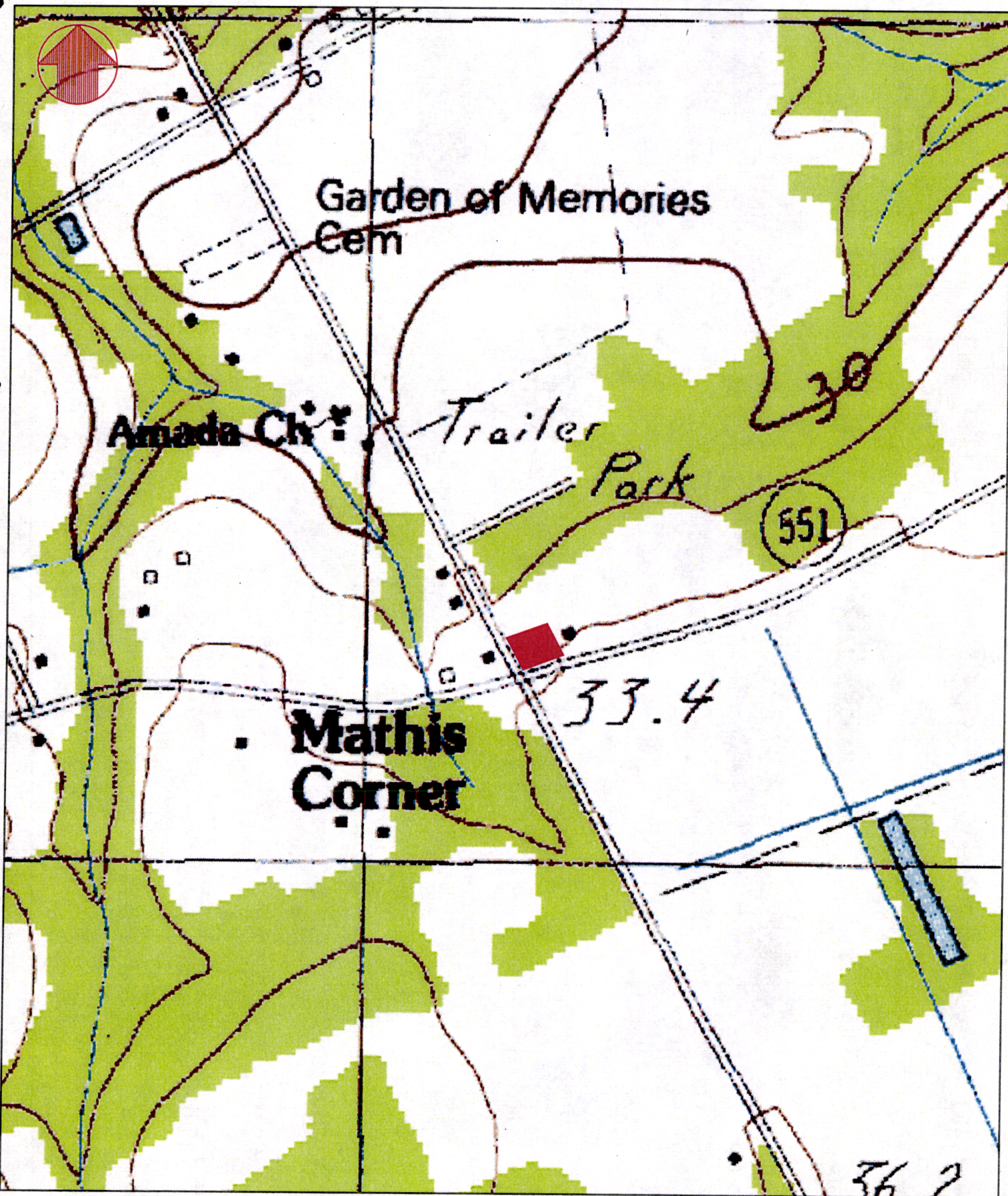
Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			✓
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?	✓		
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?			✓
11	Has the site-specific geology and hydrogeology been described?			✓
12	Has the primary soil type been described?			✓
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?			✓
17	Has the method of well development been detailed?			✓
18	Has justification been provided for the locations of the monitoring wells?			✓
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			✓
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?			✓
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?			✓
27	Does the report include a brief discussion of the fate & transport models used?			✓

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			✓
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)			✓
38	Has the site base map been provided with all required elements? (Figure 2)			✓
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)			✓
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)			✓
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)			✓
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			✓
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			✓
50	Have the disposal manifests been provided? (Appendix G)			✓
51	Has a copy of the local zoning regulations been provided? (Appendix H)			✓
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		

FIGURES



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ph: (843)665-6746 fax: (843)629-1444

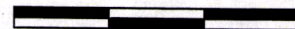
O. H. MEGGS EXXON

UST# 03423

USGS TOPO MAP

EVERGREEN QUAD.

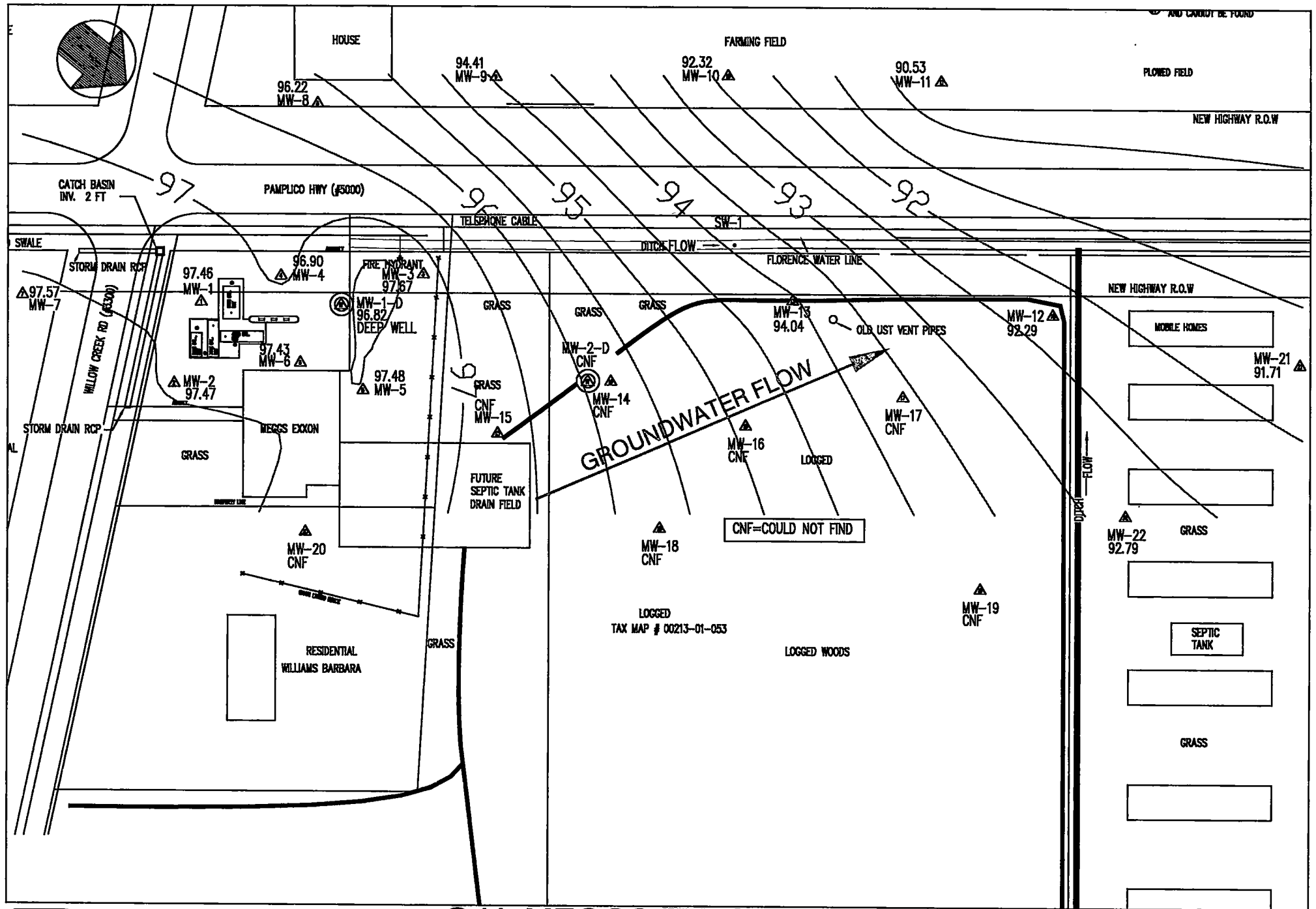
250 0 250 500



SCALE

FIGURE 1

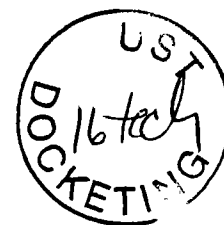






Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment



**B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274**

MAR 18 2016

Re: Aggressive Fluid Vapor Recovery Directive
Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon), 4925
Pamplico Highway (S.C. Hwy. 51), Florence, SC
UST Permit #03423; Cost Agreement #52081
Release No. 1 reported February 26, 2002
Florence County

Dear Sir or Madam:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Davis & Brown as your contractor. Based on the results of the referenced report, the UST Division has determined the next necessary scope of work is to conduct Aggressive Fluid Vapor Recovery (AFVR) to decrease concentrations of chemicals of concern.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, two AFVR events as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 3.0 should be implemented. **Please note that AFVR procedures have been updated.** The first event should be conducted for 96 hours utilizing monitoring wells MW-1 and MW-4. The second event should be conducted for 48 hours utilizing monitoring well MW-3. The stingers shall be set at the water table interface then slowly lowered to target depths of 6.1 feet in MW-1, 5.5 feet in MW-4, and 4.2 feet in MW-3. Please strive to reach the target depths within the first eight (8) hours of each event and then periodically readjust the stingers to the intervals with the highest vapor readings while maintaining dewatering of the petroleum smear zone. The goal is to achieve the highest possible vapor recovery while simultaneously dewatering the petroleum smear zone. The AFVR events should be performed consecutively. Off-gas treatment will be necessary. A copy of the Agency QAPP Revision 3.0 for the UST Division is available online at:
<http://www.scdhec.gov/environment/docs/QAPPRevision3.0.pdf>.

Please notify me at RiversMS@dhec.sc.gov as soon as the first AFVR event start date has been scheduled.

Cost Agreement #52081 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. AFVR activities may proceed immediately upon your receipt of this letter.

Costs for a site reconnaissance have been approved. Objectives of the site reconnaissance are to verify the location of the facility, locate and identify monitoring wells targeted for AFVR, and to measure for the presence of any free-phase product in the target wells. Results of the site reconnaissance shall be provided to the UST Project Manager via e-mail. The results should include gauging data for the AFVR target wells, a proposed starting date for the first AFVR event, and any pertinent site information.

The AFVR Report should be submitted within sixty (60) days from the date of this letter. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

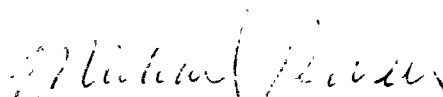
Davis & Brown may submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within one hundred twenty (120) days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The UST Division grants pre-approval for transportation of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this directive, please reference **UST Permit #03423 and Cost Agreement #52081**. If you have any questions concerning this site, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,


Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. William Van Ward, P.E., Davis & Brown, P.O. Box 15038, Quinby, SC 29506 (w/ enc.)
Technical File (w/ enc.)

Approved Cost Agreement 52081

Facility 03423 JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

RIVERSMS

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0 1200	\$34,125 750	4,095 09
23 EFR					
		A3 48 HOUR EVENT	1.0000	\$6,265 000	6,265 00
		A4 96 HOUR EVENT	1 0000	\$12,567 500	12,567 50
		C3 OFF GAS TREATMENT 48 HOUR	1 0000	\$327.000	327.00
		C4 OFF GAS TREATMENT 96 HOUR	1.0000	\$780.000	780 00
		D SITE RECONNAISSANCE	1 0000	\$203 250	203 25
		F1 EFFLUENT DISPOSAL	30,000 0000	\$0 440	13,200 00
		G AFVR EQUIPMENT MOB	2 0000	\$391 500	783 00
Total Amount					38,220 84

3/23/2016

Former Meggs Exxon UST# 03423 Site Demolition - Rivers, Mike

Former Meggs Exxon UST# 03423 Site Demolition

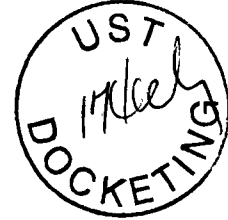
Jody Ricks <jricks@naccdb.com>

Tue 3/22/2016 3:30 PM

To Rivers, Mike <riversms@dhec.sc.gov>;

📎 1 attachment (3 MB)

Former O H Meggs UST# 03423 Store Demolition.pdf;



Mike

Attached is some photographs of the site that has been Demolished for the new Roadway

Please Review, and let me know if this is enough information

Do you need me to mail you a hard copy

Thanks

Jody Ricks



DAVIS & BROWN

ENGINEERING • ENVIRONMENTAL • O&M SERVICES
www.NACCDB.com
(843)665-6746 (843)629-1444 Fax

Mr. Michael Rivers
SCDHEC UST Division
2600 Bull St.
Columbia, SC 29201

Re Former O.H. Meggs UST# 03423
Store Demolition for Hwy 51 Road Widening Project

On Monday March 21, 2016, I visited the site of the Former O.H. Meggs convenience store, after receiving an Aggressive Fluid Vapor Recovery Directive on March, 18, 2016. The store and the AFVR wells, MW-1, MW-3 MW-4, have been demolished to make way for road widening of highway SC-51. Due to the road construction we are unable to perform the AFVR on this project.

I have attached some photographs showing the site before demolishing and after demolishing.

If you need any more information please contact.

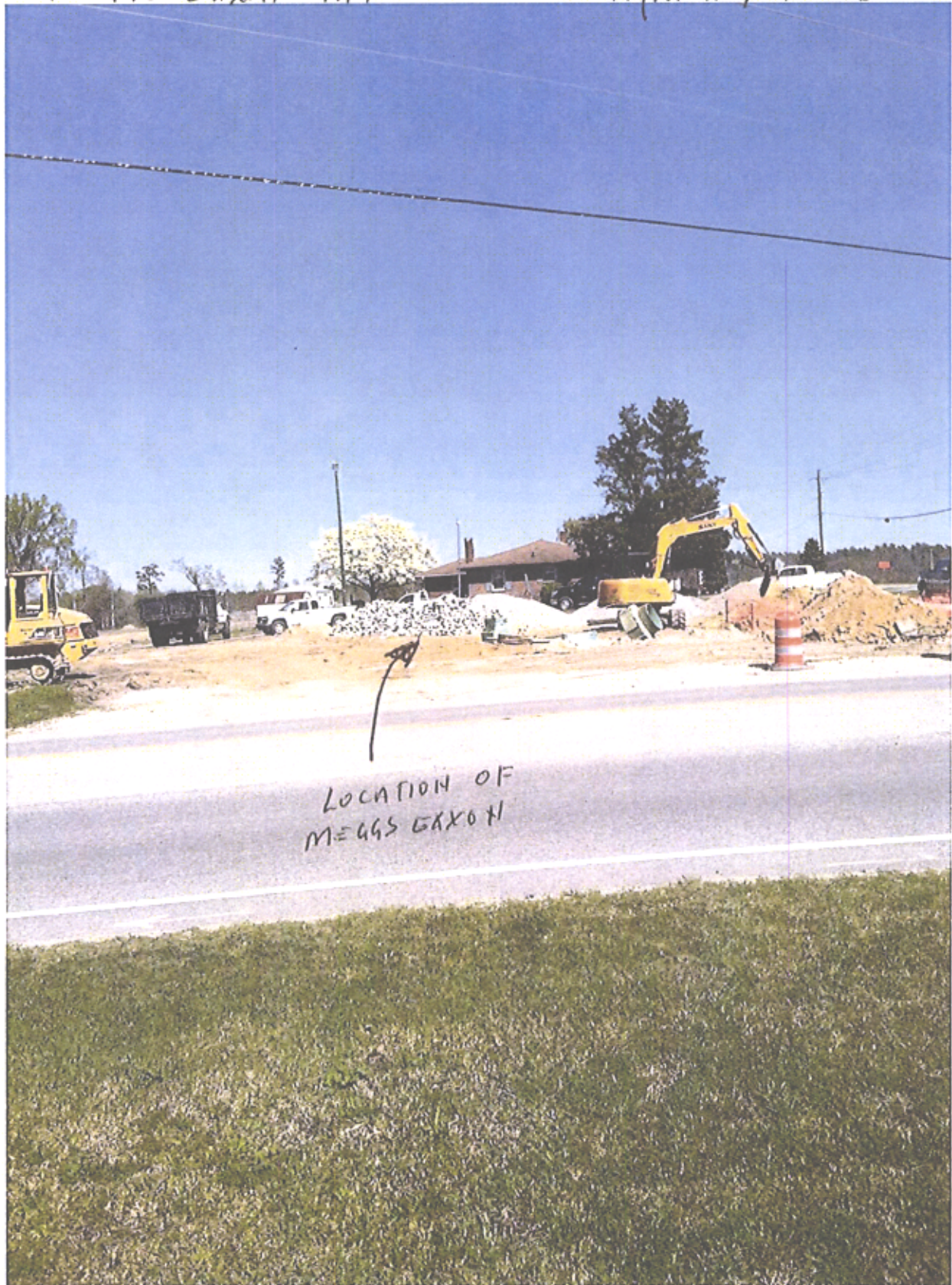
Sincerely,

Jody Ricks
Field Services

MEGGS EXXON BEFORE DEMOLITION



MEGGS EXXON AFTER DEMOLITION (FOR HWY 51 ROAD WIDENING)

















Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

**B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274**

MAR 18 2016

Re: Aggressive Fluid Vapor Recovery Directive

Jake Huggins DBA Outpost at Willow Creek, LLC (former O. H. Meggs Exxon), 4925
Pamplico Highway (S.C. Hwy. 51), Florence, SC
UST Permit #03423; Cost Agreement #52081
Release No. 1 reported February 26, 2002
Florence County

Dear Sir or Madam:

The Underground Storage Tank Management Division (UST Division) of the South Carolina of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Davis & Brown as your contractor. Based on the results of the referenced report, the UST Division has determined the next necessary scope of work is to conduct Aggressive Fluid Vapor Recovery (AFVR) to decrease concentrations of chemicals of concern.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, two AFVR events as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 3.0 should be implemented. **Please note that AFVR procedures have been updated.** The first event should be conducted for 96 hours utilizing monitoring wells MW-1 and MW-4. The second event should be conducted for 48 hours utilizing monitoring well MW-3. The stingers shall be set at the water table interface then slowly lowered to target depths of 6.1 feet in MW-1, 5.5 feet in MW-4, and 4.2 feet in MW-3. Please strive to reach the target depths within the first eight (8) hours of each event and then periodically readjust the stingers to the intervals with the highest vapor readings while maintaining dewatering of the petroleum smear zone. The goal is to achieve the highest possible vapor recovery while simultaneously dewatering the petroleum smear zone. The AFVR events should be performed consecutively. Off-gas treatment will be necessary. A copy of the Agency QAPP Revision 3.0 for the UST Division is available online at:
<http://www.scdhec.gov/environment/docs/QAPPRevision3.0.pdf>.

Please notify me at RiversMS@dhec.sc.gov as soon as the first AFVR event start date has been scheduled.

Cost Agreement #52081 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. AFVR activities may proceed immediately upon your receipt of this letter.

Costs for a site reconnaissance have been approved. Objectives of the site reconnaissance are to verify the location of the facility, locate and identify monitoring wells targeted for AFVR, and to measure for the presence of any free-phase product in the target wells. Results of the site reconnaissance shall be provided to the UST Project Manager via e-mail. The results should include gauging data for the AFVR target wells, a proposed starting date for the first AFVR event, and any pertinent site information.

The AFVR Report should be submitted within sixty (60) days from the date of this letter. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

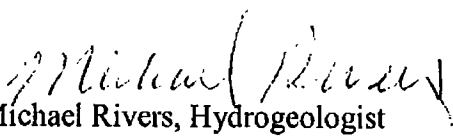
Davis & Brown may submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within one hundred twenty (120) days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The UST Division grants pre-approval for transportation of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this directive, please reference **UST Permit #03423 and Cost Agreement #52081**. If you have any questions concerning this site, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,


Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. William Van Ward, P.E., Davis & Brown, P.O. Box 15038, Quinby, SC 29506 (w/ enc.)
Technical File (w/ enc.)

52081

RIVERSMS

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	\$34,125.750	4,095.09
23 EFR					
		A3 48 HOUR EVENT	1.0000	\$6,265.000	6,265.00
		A4 96 HOUR EVENT	1.0000	\$12,567.500	12,567.50
		C3 OFF GAS TREATMENT 48 HOUR	1.0000	\$327.000	327.00
		C4 OFF GAS TREATMENT 96 HOUR	1.0000	\$780.000	780.00
		D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
		F1 EFFLUENT DISPOSAL	30,000.0000	\$0.440	13,200.00
		G AFVR EQUIPMENT MOB	2.0000	\$391.500	783.00
		Total Amount			38,220.84



JUL 10 2020

B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274

Re: Site-Specific Work Plan Request
Jake Huggins DBA Outpost at Willowcreek LLC (Former), 4925 Pamplico Hwy., Florence, SC
UST Permit #03423
Release #01 reported February 26, 2002
Release #02 reported September 17, 2002
Florence County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) understands the above referenced site has been redeveloped during road construction, additionally during a site visit to observe construction activities DHEC identified possible water supply wells at properties surrounding the facility.

The UST Management Division is requesting a receptor survey be performed to identify receptors within 1,000 feet radius of the facility as well observe site conditions to determine if monitoring wells within the highly impacted areas identified during previous assessments can be replaced in order to determine the extent and severity of the release post construction.

To monitor what risk the referenced release may pose to public health and the environment, and in accordance with South Carolina UST Control Regulations (R. 61-92, § Section 280.65), sampling of all existing monitoring wells plus all water supply wells and surface water bodies within 1,000 feet of this facility as outlined in the most recent revision of the UST Management Division Quality Assurance Program Plan and your contractor's Annual Contractor Quality Assurance Plan (ACQAP) is necessary. The groundwater sampling event must be conducted in compliance with all applicable regulations once the Site-Specific Work Plan (SSWP) is approved. **Your contractor must complete and submit the SSWP within thirty (30) days of the date of this letter. Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit # 03423. Should you have any questions, please contact me by email dunnra@dhec.sc.gov or phone (803) 898-0671.

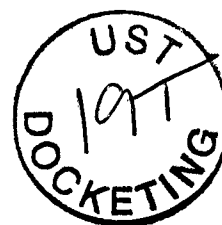
Sincerely,

Robert A. Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Davis & Brown INC., 124 W. McIver Rd., Florence, SC 29501
Technical File



AUG 04 2020



B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274

Re: State Lead Option for Site Rehabilitation
Jake Huggins DBA Outpost at Willowcreek LLC (Former), 4925 Pamplico Hwy., Florence, SC
Permit #03423
Release #01 reported February 26, 2002
Phone conversation July 23, 2020
Florence County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) in accordance with South Carolina UST Control Regulations, R.61-92 § 280.65 requires site rehabilitation activities as petroleum Chemicals of Concern (CoCs) are above Risk Based Screening Levels (RBSLs). All site rehabilitation activities must be performed by a South Carolina Certified UST Site Rehabilitation Contractor.

Based on our phone conversation your preference, as the current/former Owner/Operator (O/O) and Responsible Party (RP), is for the UST Management Division to coordinate the necessary site rehabilitation activities on your behalf (State Lead). Below is a brief explanation of this option:

State Lead Option

- You will be required to fill out the attached State Lead Permission form indicating your intention to let the UST Management Division oversee site rehabilitation on your behalf.
- The UST Management Division or its agents will conduct site rehabilitation activities on your behalf. The UST Management Division will be required to coordinate these activities with its agents as well as any affected property owners.
- The UST Management Division will be responsible for approving invoices for payments. You will not be required to sign invoices.

Please complete the form for the State Lead Option and return to my attention within 15 days of the date of this letter. If you have any questions, please contact me by email dunnra@dhec.sc.gov or phone (803) 898-0671.

Sincerely,

Robert A. Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: State Lead Option Form

Cc: Technical File (w/ Enc)



State Lead Option Permission Form for Site Rehabilitation

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of the former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Division of Underground Storage Tank Management in writing.

UST Permit # 03423

Release Report Date: Release #01 reported February 26, 2002

Facility Name: Jake Huggins DBA Outpost at Willowcreek LLC (Former)

Facility Address: 4925 Pamplico Hwy., Florence, SC

Facility Phone Number: N/A

Is facility within city limits? (check yes/no)

☐ Yes

☒ No

Name of nearest intersecting street/road/highway: N/A

Does public water/sewer utility service this facility?

☐ Yes

☒ No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: N/A

Phone Number: N/A

Were USTs previously removed from the ground at this facility?

☒ Yes

☐ No

*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

Name: N/A

Phone Number: N/A

Is the facility currently leased to someone?

☐ Yes

☒ No

*If yes, notify them of the pending work scope, and please provide their name/contact number:

Name: N/A

Phone Number: N/A

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of UST owner/former owner or authorized representative (Print):

Signature of UST owner/former owner or authorized representative:

Date

Affiliation (if applicable)

Signature of Witness

Date

Contact Info

Phone Numbers:

Home:

Cell:

Email Address:



AUG 04 2020



B W STOKES OIL COMPANY INC
PO BOX 274
FLORENCE SC 29503-0274

Re: No Further Action

Jake Huggins DBA Outpost at Willowcreek LLC (Former), 4925 Pamplico Hwy., Florence, SC
UST Permit #03423
Release #02 reported September 17, 2002
Initial Groundwater Assessment Report received June 09, 2015
Florence County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report. The report documents concentrations of petroleum Chemicals of Concern associated with the referenced release are indistinguishable from Release #01 reported February 26, 2002.

Therefore, No Further Action (NFA) will be required at this time. However, if any contamination becomes evident which could be attributed to the referenced release from the former UST system, this office may, under authority established in the South Carolina UST Control Regulations R.61-92 Part 280.52/280.73, require site rehabilitation activities. The decision for requiring no further action pertains only to the release from the permitted UST system reported September 17, 2002 and is based solely on the information provided in the referenced report.

DHEC intends to report this closure to the United States Environmental Protection Agency. If for any reason you disagree with this decision not to require any further environmental rehabilitation activities, please contact me in writing within thirty (30) days of the date of this letter.

On all correspondence related to this facility, please reference the UST Permit number above. If you have any questions, please contact me by email dunnra@dhec.sc.gov or phone at (803) 898-0671.

Sincerely,

Robert A. Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Technical File (w/ Enc)



State Lead Option Permission Form for Site Rehabilitation

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, OR are the legal owner's designated authorized representative

I certify that I am the legal owner of the former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Division of Underground Storage Tank Management in writing.

UST Permit # 03423 Release Report Date: Release #01 reported February 26, 2002

Facility Name: Jake Huggins DBA Outpost at Willowcreek LLC (Former)

Facility Address: 4925 Pamplico Hwy, Florence, SC

Facility Phone Number: N/A

Is facility within city limits? (check yes/no)

☐ Yes

☒ No

Name of nearest intersecting street/road/highway: N/A

Does public water/sewer utility service this facility?

☐ Yes

☒ No

*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

Name: N/A

Phone Number: N/A

Were USTs previously removed from the ground at this facility?

☒ Yes

☐ No

*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

Name: N/A

Phone Number: N/A

Is the facility currently leased to someone?

☐ Yes

☒ No

*If yes, notify them of the pending work scope, and please provide their name/contact number.

Name: N/A

Phone Number: N/A

*Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.

Name of UST owner/former owner or authorized representative (Print): Bennie W Stokes

Signature of UST owner/former owner or authorized representative: Bennie W. Stokes

Date: 8-10-2020

Affiliation (if applicable)

Signature of Witness

Date

Contact Info

Phone Numbers:

Home: 843 669-2586

Cell: 843 621-5865

Email Address:

R. Dunn



B W STOKES OIL CO INC
1001 CHASE ST
FLORENCE, SC 29501

NOV 18 2020

Re: Tank Owner Information

To Whom It May Concern:

The South Carolina Department Health and Environmental Control (DHEC) Underground Storage Tank (UST) Management Division (Division) is enhancing its efforts to accurately update our agency database with correct information in regards to the tank owner and identified agents. The Division is preparing for the transition to our new ePermitting database system in the foreseeable future. This updated information will allow the Division to provide consistency in communication with the tank owner and authorized agents via telephone, email, or postal service when necessary. For your convenience if there is any information that is incorrect, either on this form or in the DHEC UST registry on our webpage (<https://apps.dhec.sc.gov/Environment/USTRegistry>), please provide the correct information.

Please return the enclosed form no later than 30 days from receipt of this letter. If you have any questions or need additional time to submit the form, please contact me at arialrd@dhec.sc.gov or (803) 898-9418. You can also contact the Division at (803) 898-2254 or (803) 898-0589.

Sincerely,

Ryan D. Ariail, Customer Service Liaison
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Technical File
Financial File

Enc: Tank Owner Information Form (D-4075)



Underground Storage Tank Management Division Tank Owner Information Form

Facility Name: JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC		Permit ID: 03423	Release Date(s): 2/26/2002
Facility Address: 4925 PAMPLICO HWY			
City: FLORENCE	South Carolina	Zip Code: 29505	
Tank Owner Name: B W STOKES OIL CO INC			
Mailing Address: 1001 CHASE ST			
City: FLORENCE	State: SC	Zip Code: 29501	
Name of Tank Owner (or Authorized Agent if Owner is a Business Entity) (print):			
Signature:		Date:	
If you are a sole proprietor as the tank owner and choose to not to have any agents, please initial _____, identifying you are the only person authorized to sign invoices and/or select a certified site rehabilitation contractor for the referenced release(s).			
I certify that the agents identified below are authorized to select a certified site rehabilitation contractor and/or sign invoices on behalf of the tank owner for compensation from SUPERB Account for site rehabilitation activities conducted under the UST release(s) referenced above; print name, affiliation with tank owner, and signature (non-black ink). _____ (tank owner initial)			
		Authorized to sign invoices on behalf of the tank owner	Authorized to select a certified site rehabilitation contractor
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			



B W STOKES OIL CO INC
1001 CHASE ST
FLORENCE, SC 29501

NOV 18 2020



Re: Tank Owner Information

To Whom It May Concern:

The South Carolina Department Health and Environmental Control (DHEC) Underground Storage Tank (UST) Management Division (Division) is enhancing its efforts to accurately update our agency database with correct information in regards to the tank owner and identified agents. The Division is preparing for the transition to our new ePermitting database system in the foreseeable future. This updated information will allow the Division to provide consistency in communication with the tank owner and authorized agents via telephone, email, or postal service when necessary. For your convenience if there is any information that is incorrect, either on this form or in the DHEC UST registry on our webpage (<https://apps.dhec.sc.gov/Environment/USTRegistry>), please provide the correct information.

Please return the enclosed form no later than 30 days from receipt of this letter. If you have any questions or need additional time to submit the form, please contact me at ariailrd@dhec.sc.gov or (803) 898-9418. You can also contact the Division at (803) 898-2254 or (803) 898-0589.

Sincerely,

Ryan D. Ariail, Customer Service Liaison
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Technical File
Financial File

Enc: Tank Owner Information Form (D-4075)



Underground Storage Tank Management Division Tank Owner Information Form

Facility Name: JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC		Permit ID: 03423	Release Date(s): 9/17/02 (Release 2)
Facility Address: 4925 PAMPLICO HWY			
City: FLORENCE	South Carolina	Zip Code: 29505	
Tank Owner Name: B W STOKES OIL CO INC			
Mailing Address: 1001 CHASE ST			
City: FLORENCE	State: SC	Zip Code: 29501	
Name of Tank Owner (or Authorized Agent if Owner is a Business Entity) (print):			
Signature:		Date:	
If you are a sole proprietor as the tank owner and choose to not to have any agents, please initial _____, identifying you are the only person authorized to sign invoices and/or select a certified site rehabilitation contractor for the referenced release(s).			
I certify that the agents identified below are authorized to select a certified site rehabilitation contractor and/or sign invoices on behalf of the tank owner for compensation from SUPERB Account for site rehabilitation activities conducted under the UST release(s) referenced above; print name, affiliation with tank owner, and signature (non-black ink). _____ (tank owner initial)			
		Authorized to sign invoices on behalf of the tank owner	Authorized to select a certified site rehabilitation contractor
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			
Name:		Yes ☐ No ☐	Yes ☐ No ☐
Affiliation:			
Signature:			
Date:			



DEC 10 2020



MS BARBARA M WILLIAMS
3309 WILLOW CREEK RD
FLORENCE SC 29505

Re: Water Supply Well Information Request
Jake Huggins DBA Outpost at Willowcreek LLC (Former), 4925 Pamplico Hwy., Florence, SC
UST Permit #03423
Release reported February 26, 2002
Florence County

Dear Ms. Williams:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) is conducting a survey of groundwater use in the area adjacent to the former facility referenced above. Your properties located at 3309 Willow Creek Road and 4926 Pamplico Highway have been identified as properties that may have private water supply wells.

To ensure access to safe drinking water DHEC would like to request information associated with the status, use, and construction of your water wells. If the wells are actively used DHEC would also like to collect water samples to ensure the release of petroleum from the former facility has not impacted your wells. To assist DHEC in monitoring your wells, please indicate their usage on the enclosed forms.

South Carolina Well Standards (R.61-71 § F.14.b) requires any well removed from service longer than 36 months should be permanently abandoned unless a variance from DHEC is requested. If you are no longer using either of these wells and wish for them to be properly abandoned by a South Carolina Certified Well Driller, you can also indicate this using the attached form. Should you choose to have either well abandoned, there will be no cost to you. Please return these forms to DHEC within 30 days of the date of this letter.

On all correspondence concerning this site reference the UST Permit number above. If there are any questions concerning this project, please contact me by email dunnra@dhec.sc.gov or phone (803)-898-0671.

Sincerely,

Robert A. Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: Lab Analytical Results
Water Supply Well Info Form

Cc: Technical file (w/ Enc)



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**
2600 Bull Street
Columbia SC 29201

WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : Jake Huggins DBA Outpost at Willowcreek LLC (Former)

Tax Map Parcel # : 00213-01-019; WSW01

Street Address : 3309 Willow Creek Rd.

City, State, ZIP : Florence, SC 29505

Phone number: _____

1. There is a water supply well located on the above listed property.
☐ Yes ☐ No
2. The water supply well is currently in use.
☐ Yes ☐ No
3. The water supply well is used as a source of drinking water.
☐ Yes ☐ No
4. The water supply well is used for irrigation.
☐ Yes ☐ No
5. Is electricity currently connected to the well? ☐ Yes ☐ No
6. The depth of the water supply well is _____ feet.
7. The diameter of the water supply well is _____ inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.
☐ Yes ☐ No

Signature: _____

Name (please print): _____

Witness: _____

Date: _____

Permit # : ⁰³⁴²³
R. Dunn



UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street
Columbia SC 29201

WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : Jake Huggins DBA Outpost at Willowcreek LLC (Former)

Tax Map Parcel # : 00213-01-017; WSW02

Street Address : 4926 Pamplico Hwy.

City, State, ZIP : Florence, SC 29505

Phone number: _____

1. There is a water supply well located on the above listed property.
☐ Yes ☐ No
2. The water supply well is currently in use.
☐ Yes ☐ No
3. The water supply well is used as a source of drinking water.
☐ Yes ☐ No
4. The water supply well is used for irrigation.
☐ Yes ☐ No
5. Is electricity currently connected to the well? ☐ Yes ☐ No
6. The depth of the water supply well is _____ feet.
7. The diameter of the water supply well is _____ inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.

☐ Yes ☐ No

Signature: _____

Name (please print): _____

Witness: _____

Date: _____

Permit # :

03423

R. Danner



UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

2600 Bull Street
Columbia SC 29201



WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : Jake Huggins DBA Outpost at Willowcreek LLC (Former)

Tax Map Parcel # : 00213-01-019; WSW01

Street Address : 3309 Willow Creek Rd.

City, State, ZIP : Florence, SC 29505

Phone number: 843 662-0808

1. There is a water supply well located on the above listed property.
☒ Yes ☐ No
2. The water supply well is currently in use.
☐ Yes ☒ No
3. The water supply well is used as a source of drinking water.
☐ Yes ☒ No
4. The water supply well is used for irrigation.
☐ Yes ☒ No
5. Is electricity currently connected to the well? ☐ Yes ☒ No
6. The depth of the water supply well is _____ feet.
7. The diameter of the water supply well is _____ inches.
- probably dry by now "pumped"*

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.

☐ Yes ☒ No

Signature: Barbara M. Williams

Name (please print): Barbara M. Williams

Witness: _____

Date: _____

Permit # : 03423
R. Dunn



**UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT**
2600 Bull Street
Columbia SC 29201



WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : ~~Jake Huggins DBA Outpost at Willowcreek LLC (Former)~~ residence

Tax Map Parcel # : 00213-01-017; WSW02

Street Address : 4926 Pamplico Hwy.

City, State, ZIP : Florence, SC 29505

Phone number: 843 662-0808

1. There is a water supply well located on the above listed property. *probably dry by now "pumped"*
☒ Yes ☐ No
2. The water supply well is currently in use.
☐ Yes ☒ No
3. The water supply well is used as a source of drinking water.
☐ Yes ☒ No
4. The water supply well is used for irrigation.
☐ Yes ☒ No
5. Is electricity currently connected to the well? ☐ Yes ☒ No
6. The depth of the water supply well is _____ feet.
7. The diameter of the water supply well is _____ inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.

☐ Yes ☒ No

Signature: Barbara M. Williams

Name (please print): Barbara M. Williams

Witness: _____

Date: _____

Permit # : 03423

R. Dunn



JAN 27 2021



B W STOKES OIL COM INC
PO BOX 274
FLORENCE, SC 29503

Re: Tank Owner Information

To Whom It May Concern:

The South Carolina Department Health and Environmental Control Underground Storage Tank (UST) Management Division (Division) is enhancing its efforts to accurately update our agency database with correct information in regards to the UST owner/operator and authorized agents associated with petroleum releases in South Carolina. You are receiving this letter and form because the Division has determined, in accordance with the South Carolina UST Control Regulations R. 61-92, Subpart F that B W Stokes Oil Company Inc. is responsible for the release response and/or corrective action of the petroleum release(s) indicated on the enclosed form.

The Division is preparing for the transition to our new ePermitting database system in the foreseeable future. This updated information will allow the Division to provide consistency in communication with the appropriate individuals via telephone, email, or postal service when necessary.

Please review the enclosed form carefully and provide any updates to the tank owner address, if necessary. Follow the instructions page on the enclosed form and read all statements to ensure the form is filled out in its entirety.

Please return the enclosed form no later than 30 days from receipt of this letter. If you have any questions or need additional time to submit the form, please contact me at ariailrd@dhec.sc.gov or (803) 608-0418. You can also contact the Division at (803) 898-2254 or (803) 898-0589.

Sincerely,

A handwritten signature in black ink, appearing to read "Ryan D. Ariail", with a large, stylized "O" at the end.

Ryan D. Ariail, Customer Service Liaison
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Technical File



SEP 30 2021



BRYAN SHANE P.G.
PO BOX 854
LEXINGTON SC 29071

Re: Request for Site Specific Work Plan
Solicitation Number IFB-5400020560-1/20/21; Purchase Order# 4600813504

Dear Mr. Shane:

In accordance with the referenced contract, the Underground Storage Tank (UST) Management Division (Division) requests a Tier II Assessment for the following UST facilities to define the geology and the horizontal and vertical extent of petroleum Chemicals of Concern (CoC) both dissolved and free phase product. As outlined in the referenced contract, please submit a Site-Specific Work Plan and Cost Proposal for each site listed below to my attention **within thirty (30) days** from the date of this correspondence. Plan implementation shall not commence prior to receipt of written technical and financial approval from the Division.

<u>Site name</u>	<u>ID #</u>	<u>County</u>	<u>Priority</u>	<u>Project Manager</u>
Jake Huggins DBA Outpost At Willowcreek LLC	03423	Florence	2BB	Robert Dunn

On all correspondence, please reference the pertinent UST Permit number. If you have any questions or need further assistance, please contact me at (803) 898-0592 or edgarsk@dhec.sc.gov.

Sincerely,

Sedona Edgar, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: SSWP Package UST Permit#
cc: Technical Files (with enc) UST permit numbers



UNDERGROUND STORAGE TANK MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-898-2544

MEMORANDUM

TO: Bryan Shane, P.G.

FROM: ROBERT A. DUNN

RE: Site-Specific Work Plan Request

Facility Name: JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

Permit Number: 03423 Cost Agreement #: 64418

County: FLORENCE

Work previously completed IGWA, TIER II X2, GWS; SITE WAS DEMOLISHED AND INCORPORATED
and work requested: INTO DOT ROW; NEED ASSESSMENT TO DETERMINE CURRENT RISK
ADJACENT TO THE FORMER SITE AND TOWARDS TRAILER PARK TO
THE NORTH ALONG PAMPLICO HWY. rad

enc: Right of Entry Form, EFIS Utility Report, Recent Reports => See digital file share.

Site Information for R-03423 Facility: JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

<u>Bus.</u>	4925 PAMPLICO HWY	<u>Phone</u>	843-669-6818
<u>Address</u>	FLORENCE SC 29505	<u>County</u>	Florence
		<u>District</u>	Florence EQC Office
<u>Category</u>	Retail Sales	<u>Last Inspection</u>	08/24/15
		<u>Trans. of Ownership</u>	05/24/12
<u>Tank Owner</u>	HUGGINS, JAKE		
<u>Bus.</u>	4925 PAMPLICO HWY	<u>Phone</u>	000-000-0000
<u>Address</u>	FLORENCE SC 29505	<u>Financial Mechanism</u>	LOC
		<u>Expiration Date</u>	09 December 2013
<u>Operator</u>	JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC		
<u>Bus.</u>	4925 PAMPLICO HWY	<u>Phone</u>	843-669-6818
<u>Address</u>	FLORENCE SC 29505	<u>Phone</u>	843-669-6818
<u>Land Owner</u>	WILLIAMS, BARBARA		
<u>Bus.</u>	4925 PAMPLICO HWY	<u>Phone</u>	843-669-6818
<u>Address</u>	FLORENCE SC 29505	<u>Phone</u>	843-669-6818
<u>Tanks</u>	5	<u>Billable</u>	0
	<u>Aband.</u>	5	<u>Other</u>
	0		0
	<u>Compliance Operator(s)</u>	<u>ID</u>	<u>Training Date</u>

Significant? N Memo Date: 02/24/01

Site Memo: 06-17-99--They have 4 GN tanks (2K,4K,6K, and a 3K), and one KN AST i (550gal). Our records had their 4
USTs as 3 GNs(2,4,and6K) and a KN i UST...but all 4 USTs are really GN. Address is
"4925 Pamplico Hwy." vkm

Significant? Y Memo Date: 02/08/02

Site Memo: DAMAGED SPILL BUCKET-RELEASE REPORTED-RUBBER FLANGE DAMAGED ALLOWING PRODUCT TO REACH SOIL-JEMIII

Significant? N Memo Date: 03/27/02

Site Memo: Trey Morgan verified that the spill bucket on the super tank had been repaired. MECO of Florence made the repairs about a week
after the NOV was issued.

Significant? N Memo Date: 02/24/01

Site Memo: 121400-got copy of letter from meco stating 060898 when spill and i overfill was installed that the check
valves on top of the tanks i were removed as well-JEMIII

Significant? N Memo Date: 05/20/02

Site Memo:

<u>Rel. No.</u>	1	<u>Reported</u>	02/26/02	<u>Status</u>	Confirmed - Active	<u>Product</u>	Petroleum	<u>Compl Required</u>	Y
<u>Active Tnks</u>	NFA	<u>Fin. Type</u>	DHEC SUPERB	<u>RBCA / Score</u>	2BB 3533	<u>Compliance Met</u>	Y		

Site Information for R-03423 Facility: JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

Received invoice indicating that a replacement flange had been placed on the damaged spill bucket. Forwarded information to Joe Gladney. Invoice also indicated that the "leak on diesel" had been fixed.

Significant? N **Memo Date:** 05/20/02

Site Memo: TC to Claudette Stokes concerning the 550 kero tank. It has been in the ground since the Stokes purchased the site back in 1982.

<u>Confirmed</u>	03/19/02	<u>Emer. Resp.</u>		<u>Superb Qualified</u>	Y	<u>Compliance Met Dt</u>	06/21/02
<u>CU Init.</u>	07/10/02	<u>Abate. Met</u>		<u>Superb Determ. Dt</u>	10/20/03	<u>Fin Res Mechanism</u>	
<u>CU Compl.</u>		<u>Transferred</u>		<u>Project Manager</u>	DUNN ROBERT A		
<u>CU > MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	B W STOKES OIL CO INC		

Rel. No.	2	<u>Reported</u>	09/17/02	<u>Status</u>	Confirmed - Closed	<u>Product</u>	Petroleum	<u>Compl Required</u>	Y
Active Tnks		<u>NFA</u>	07/28/20	<u>Fin. Type</u>	With SUPERB 25K	<u>RBCA / Score</u>	3BF 17	<u>Compliance Met</u>	Y
		<u>Confirmed</u>	09/30/02	<u>Emer. Resp.</u>		<u>Superb Qualified</u>	Y	<u>Compliance Met Dt</u>	06/16/03
		<u>CU Init.</u>	09/02/08	<u>Abate. Met</u>		<u>Superb Determ. Dt</u>	10/20/03	<u>Fin Res Mechanism</u>	
		<u>CU Compl.</u>	09/04/08	<u>Transferred</u>		<u>Project Manager</u>	DUNN ROBERT A		
		<u>CU > MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	B W STOKES OIL CO INC		

Tank No.	1	<u>Const.</u>		<u>Class</u>	R	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	FX
		<u>Operate</u>	06/08/98	<u>T Status</u>	ABD	<u>Tank Protect.</u>	IC CP 02/08/11	<u>Pipe Protect.</u>	FX CP
		<u>Notify</u>	05/02/86	<u>Capacity</u>	2,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	RUL	<u>Overfill Type</u>	DTSO Ver 09/19/06	<u>Piping Type</u>	PR
		<u>Compl.</u>	10/20/14	<u>C Status</u>	ABD	<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	111
		<u>Spill Det.</u>	06/08/98	<u>Left Gal.</u>		<u>Owner @ ABD</u>	HUGGINS, JAKE	<u>Last Use</u>	
		<u>Aband.</u>	06/30/16	<u>Method</u>	RG	<u>CAS No.</u>			
		<u>Under Dispenser Cont.</u>	Y	<u>Drop Tube</u>	Y	<u>Tank Leak Det.</u>	ATG	<u>Pipe Leak Det.</u>	MAN

Tank No.	2	<u>Const.</u>		<u>Class</u>	R	<u>Tank Const. Mat.</u>	FP	<u>Pipe Const. Mat.</u>	FX
		<u>Operate</u>	06/08/98	<u>T Status</u>	ABD	<u>Tank Protect.</u>	FC CP	<u>Pipe Protect.</u>	FX CP
		<u>Notify</u>	05/02/86	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	PLUS	<u>Overfill Type</u>	DTSO Ver 09/19/06	<u>Piping Type</u>	PR
		<u>Compl.</u>	10/20/14	<u>C Status</u>	ABD	<u>Age @ Notif.</u>	10	<u>Dist. to Well</u>	111
		<u>Spill Det.</u>	06/08/98	<u>Left Gal.</u>		<u>Owner @ ABD</u>	HUGGINS, JAKE	<u>Last Use</u>	
		<u>Aband.</u>	06/30/16	<u>Method</u>	RG	<u>CAS No.</u>			
		<u>Under Dispenser Cont.</u>	Y	<u>Drop Tube</u>	Y	<u>Tank Leak Det.</u>	ATG	<u>Pipe Leak Det.</u>	LTT 02/06/12 LLD 02/06/12

ADNLC Cost Management Tracking
BOTH billable and unbillable tanks
Site Information for R-03423 Facility: JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

<u>Tank No.</u>	3	<u>Const.</u>	<u>Class</u>	R	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	FX	
		<u>Operate</u>	06/08/98	<u>T Status</u>	ABD	<u>Tank Protect.</u>	IC	<u>CP</u>	02/08/11
		<u>Notify</u>	05/02/86	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Protect.</u>	FX
		<u>Variance</u>		<u>Product</u>	PREM	<u>Overfill Type</u>	DTSO	<u>Ver</u>	09/19/06
		<u>Compl.</u>	10/20/14	<u>C Status</u>	ABD	<u>Age @ Notif.</u>	10	<u>Pipe Cont. Meth.</u>	SW
		<u>Spill Det.</u>	06/08/98	<u>Left Gal.</u>		<u>Owner @ ABD</u>	HUGGINS, JAKE	<u>Piping Type</u>	PR
		<u>Aband.</u>	06/30/16	<u>Method</u>	RG	<u>CAS No.</u>		<u>Dist. to Well</u>	111
		<u>Under Dispenser Cont.</u>	Y	<u>Drop Tube</u>	Y	<u>Tank Leak Det.</u>	ATG	<u>Last Use</u>	
								<u>Pipe Leak Det.</u>	LTT 02/06/12
									LLD 02/06/12
<u>Tank No.</u>	4	<u>Const.</u>	<u>Class</u>	R	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	FX	
		<u>Operate</u>	06/08/98	<u>T Status</u>	ABD	<u>Tank Protect.</u>	IC	<u>CP</u>	02/08/11
		<u>Notify</u>	05/02/86	<u>Capacity</u>	3,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Protect.</u>	FX
		<u>Variance</u>		<u>Product</u>	RUL	<u>Overfill Type</u>	DTSO	<u>Ver</u>	09/19/06
		<u>Compl.</u>	10/20/14	<u>C Status</u>	ABD	<u>Age @ Notif.</u>	10	<u>Pipe Cont. Meth.</u>	SW
		<u>Spill Det.</u>	06/08/98	<u>Left Gal.</u>		<u>Owner @ ABD</u>	HUGGINS, JAKE	<u>Piping Type</u>	PR
		<u>Aband.</u>	06/30/16	<u>Method</u>	RG	<u>CAS No.</u>		<u>Dist. to Well</u>	111
		<u>Under Dispenser Cont.</u>	Y	<u>Drop Tube</u>	Y	<u>Tank Leak Det.</u>	ATG	<u>Last Use</u>	
								<u>Pipe Leak Det.</u>	LTT 02/06/12
									LLD 02/06/12
<u>Tank No.</u>	5	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>		
		<u>Operate</u>		<u>T Status</u>	ABD	<u>Tank Protect.</u>		<u>CP</u>	
		<u>Notify</u>	05/08/02	<u>Capacity</u>	500	<u>Tank Cont. Meth.</u>		<u>Pipe Protect.</u>	
		<u>Variance</u>		<u>Product</u>	KN	<u>Overfill Type</u>		<u>Ver</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	0	<u>Pipe Cont. Meth.</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	B W STOKES OIL CO INC	<u>Dist. to Well</u>	
		<u>Aband.</u>	05/20/02	<u>Method</u>	RG	<u>CAS No.</u>		<u>Last Use</u>	
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

Robert

October 25, 2021



Ms. Sedona Edgar, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan – Tier II Contract
Jake Huggins DBA Outpost at Willowcreek, LLC.
4925 Pamplico Highway
Florence, South Carolina
Florence County
SCDHEC Site ID Number 03423
MECI Project Number 21-7709
Certified Site Rehabilitation Contractor UCC-0009

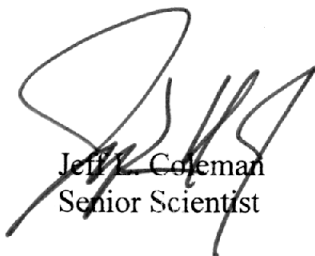
Dear Ms. Edgar,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On October 20, 2021, MECI personnel performed a site visit to the subject site to evaluate current site conditions, locate previously installed monitoring wells and identify potential problems for future Tier II Investigation Activities.

If you have any question or comments, please feel free to contact me at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist

RECEIVED

OCT 27 2021

SC Department of
Health & Environmental Control



**Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division**

To: Mr. Robert Dunn (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Jake Huggins DBA Outpost at Willowcreek, LLC. UST Permit #: 03423
Facility Address: 4925 Pamplico Highway, Florence, SC 29505
Responsible Party: BW Stokes Oil Company, Inc. Phone: 843-621-5865
RP Address: P.O. Box 1656, Florence, SC 29503
Property Owner (if different): SCDOT Right of Way
Property Owner Address: SCDOT
Current Use of Property: SCDOT Right of way

Scope of Work (Please check all that apply)

☐ IGWA ☒ Tier II ☐ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☒ BTEXNMDCA (8260D)	☐ Lead	☐ BOD	☐ Methane
☒ Oxygenates (8260D)	☐ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
☒ EDB (8011)	☐ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270E)	☐ pH	☐ Other _____	

Drinking Water Supply Wells:

☒ BTEXNMDCA (524.2)	☐ Mercury (200.8 245.1 or 245.2)	☒ EDB (504.1)
☒ Oxygenates & Ethanol (8260D)	☐ RCRA Metals (200.8)	

Soil:

☐ BTEXNM	☐ Lead	☐ RCRA Metals	☐ TPH-DRO (3550B/8015B)	☒ Grain Size
☐ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	☐ TOC	

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ 4 _____ Water Supply Wells	_____ Air	_____ 2 _____ Field Blank
_____ 25 _____ Monitoring Wells	_____ 5 _____ Surface Water	_____ 3 _____ Duplicate	_____ 3 _____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: 30 Estimated Footage: 12' feet per point
of deep points proposed: 7 Estimated Footage: 40' feet per point

Field Screening Methodology: See Attached

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: 15 Estimated Footage: 12' feet per point
of deep wells: 5 Intermediate/5 Deep Estimated Footage: 25'/40' feet per point
of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

Final plan will be based on screening results and approved by the SCDHEC Project Manager

UST Permit #: 03423

Facility Name: Jake Huggins DBA Outpost at Willowcreek, LLC.

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 10/25/2021

Field Work Completion: 1/25/2022

Report Submittal: 2/25/2022

of Copies Provided to Property Owners: 4

Aquifer CharacterizationPump Test: ☐ Slug Test: ☒ (Check one and provide explanation below for choice)

6 slug test are recommended

Investigation Derived Waste Disposal

Soil: 7 Tons

Purge Water: 500.00

Gallons

Drilling Fluids: Gallons

Free-Phase Product: Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

SEE ATTACHED DETAILED TIER II PLAN

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

None Other variations from ACQAP. Please describe below.**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

Jake Huggins/UST# 03423

Tier II Plan

Known Information:

- Twenty-four monitoring wells previously were installed at the subject site to monitor the groundwater. It appears that these wells were all destroyed during a SCDOT widening project which took place in the site area sometime between 2015-2017.
- The highest known concentrations of petroleum compounds was in the area of the former UST Basin and Dispenser Island. These areas are currently within the roadway.
- Petroleum Compounds of concern appear to be Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MTBE and EDB.
- Historical reports suggest northwesterly flow direction.
- Historical reports also document CoC's in a former ditch along the eastern shoulder of Pamplico Highway. This may indicate that the plume is following the former ditch.
- Soil sampling during previous assessments defined the extent of the soil contamination; however, the areas of concern are currently under the new roadway.
- The lithology documented at the site was defined as Sandy CLAY from 0-20' and Clayey SAND from 20'-40'.
- There are two known water supply wells within a 1,000' foot radius of the site. These two water wells are located at the residential properties immediately east and west of the site and both are reportedly inactive. There are several surface water locations within 1,000' foot of the site. These surface water bodies include a drainage ditch, a creek and a pond.
- MECL is recommending a receptor survey be performed in association with this Tier II Assessment due to the probability of more water wells within 1,000' feet of the site.

Phase 1A: Soil Field Screening

- Complete 1 continuous core utilizing DT22 to an approximate depth of 40' BGS as close to the former UST system and physically possible to Determine PID and Lithology.
(Total Footage = 40')
- Based on PID results/lithology – Grainsize/Hydrometer samples (3) will be collected and analyzed (Shallow, Intermediate, Deep)

Phase 1B: Groundwater Field Screening (Screening depths will be based on results of Phase 1A with emphasis on high transmissive zones and PID results from soil boring)

- 30 Shallow Screening Locations are Proposed (10' BGS) **(Total Footage = 300')**
- 7 Vertical Screening Location (15', 20', 25', 30', 35', 40')
 - 7 x 15' **(Total Footage = 105')**
 - 7 x 20' **(Total Footage = 140')**
 - 7 x 25' **(Total Footage = 175')**
 - 7 x 30' **(Total Footage = 210')**
 - 7 x 35' **(Total Footage = 245')**
 - 7 x 40' **(Total Footage = 280')**

- Screening will be conducted utilizing a variety of techniques to include; Ultraviolet Fluorescence Spectrophotometer, Frog-5000 Micro Gas Chromatograph with PID and MiniRae Lite PID.

Phase 2: Well Installation

- The final well plan, total depths, screened intervals and outer casing depths will be based on the results of Phase 1A & Phase 1B and approved by the SCDHEC Project Manager prior to installation. For planning purposes:
- 15 shallow monitoring wells have been proposed (12' TD) (**Total Type II = 180'**)
- 3 intermediate Type II monitoring wells have been proposed (25' TD) (**Total Type II = 75'**)
- 3 deep Type II monitoring wells have been proposed (40' TD) (**Total Type II = 120'**)
- 2 intermediate Type III monitoring wells have been proposed (25' TD) (**Total Type III = 50'**)
- 2 deep Type III monitoring wells have been proposed (40' TD) (**Total Type III = 80'**)

Phase 3: Sampling, Slug Test, Survey

- Following well development, all installed monitoring wells will be purged and sampled. All nearby receptors will be sampled. Samples from the monitoring wells will be analyzed for BTEX,N,M,DCA,Oxy's and EDB by appropriate methods.
- 6 Slug Test will be completed (2 x shallow/2 x Intermediate/2 x Deep)
- A comprehensive survey will be performed



ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account

Facility Name: Jake Huggins DBA Out post at Willowcreek, LLC.

UST Permit #: 03423

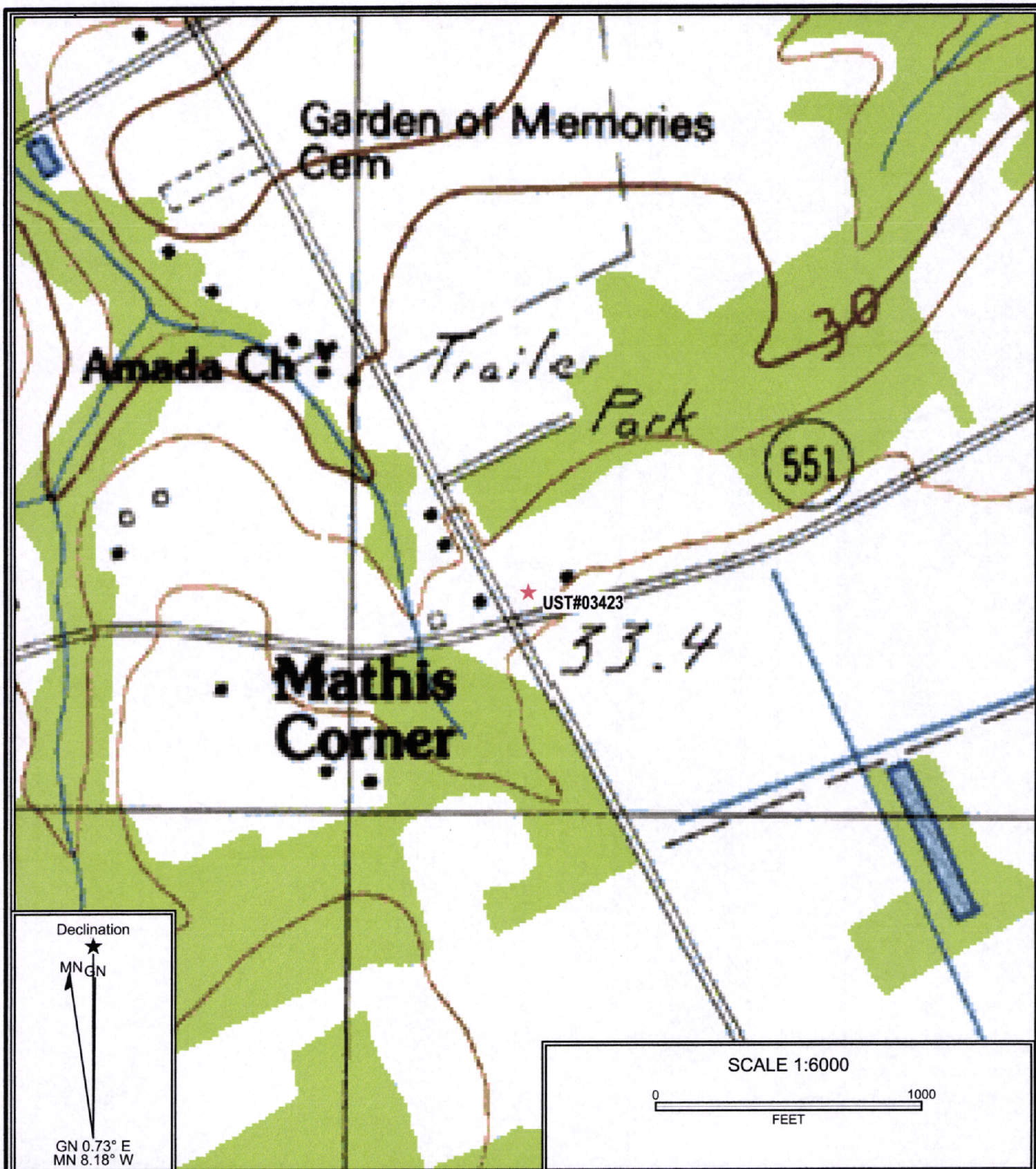
Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. Plan Preparation					
1. Site-specific Work Plan	1	each	\$500.00		\$500.00
2. Tax Map	1	each	\$250.00		\$250.00
B. Receptor Survey *	1	each	\$500.00		\$500.00
C. Survey (500 X 500 feet)					
1. Comprehensive Survey	1	each	\$1,500.00		\$1,500.00
4. Ground Penetrating Radar Survey (100ft X 100 ft)		each	\$500.00		\$0.00
D. Mobilization/Demobilization					
1. Equipment	2	each	\$1,600.00		\$3,200.00
2. Personnel	5	each	\$450.00		\$2,250.00
3. Adverse Terrain Vehicle		each	\$1.00		\$0.00
E. Soil Borings (hand auger)* includes sample collection & abandonment		per foot	\$1.00		\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water sampling and analysis)*					
1. Standard	1495	per foot	\$15.00		\$22,425.00
2. Fractured Rock		per foot	\$1.00		\$0.00
I. Well Installation (in accordance with R.61-71)*					
1. Shallow monitoring wells installed using a hand auger		per foot	\$1.00		\$0.00
2. Single-cased 2" Diameter Monitoring Well (0-50 ft)	375	per foot	\$22.00		\$8,250.00
A. Single-cased 2" Diameter Monitoring Well (0>50 ft)		per foot	\$22.00		\$0.00
3. Telescoping	130	per foot	\$35.00		\$4,550.00
4. Rock Well Drilling		per foot	\$25.00		\$0.00
5. 2" Rock Coring and Retrieval		per foot	\$1.00		\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$1.00		\$0.00
7. Recovery Well (4" diameter well)		each	\$32.00		\$0.00
9. Rotosonic (2" diameter)		each	\$35.00		\$0.00
J. Sample Collection / Gauging Depth to Water / Product *					
1. Volumetric Groundwater Purge	25	per well	\$50.00		\$1,250.00
2. Air or Soil Vapor Sample		per receptor	\$1.00		\$0.00
3. Water Supply Sample	4	per well/receptor	\$20.00		\$80.00
4. No-purge Groundwater Sample / Surface Water	5	sample	\$20.00		\$100.00
A. HydraSleeve			\$30.00		\$0.00
5. Water Level Gauging		per well	\$1.00		\$0.00
6. Sample Below Product		sample	\$1.00		\$0.00
7. Passive Diffusion Bag		sample	\$1.00		\$0.00
8. Field Duplicates (MWs & WSWs) and Field Blank	6	each	\$25.00		\$150.00
9. Low-Flow Purge Groundwater Sample		per well/receptor	\$100.00		\$0.00
10. Equipment Blank (2 per day)		each	\$1.00		\$0.00
11. Sample Product		sample	\$1.00		\$0.00

K. Laboratory Analyses-Groundwater					
1. BTEXN Including Oxygenates and 1,2 DCA 8260D	43	sample	\$75.00		\$3,225.00
2. Dissolved Lead (6010D or 6020B)		sample	\$15.00		\$0.00
3. BTEXN Including Oxygenates and 1,2 DCA 8260D RUSH		sample	\$100.00		\$0.00
4. Trimethyl, Butyl, and Isopropyl Benzenes (8260D)		sample	\$32.00		\$0.00
5. Polynuclear Aromatic Hydrocarbons (PAHs) (8070E)		sample	\$52.00		\$0.00
6. Total Lead (6010D or 6020B)		sample	\$15.00		\$0.00
7. EDB by 8011	40	sample	\$44.00		\$1,760.00
8. EDB by 8011 Rush		sample	\$75.00		\$0.00
9. RCRA 8 Metals		sample	\$60.00		\$0.00
10. TPH - Oil and Grease (9070)		per sample	\$40.00		\$0.00
11. PH (Lab)		per sample	\$12.00		\$0.00
12. BOD		per sample	\$30.00		\$0.00
13. Ethanol		per sample	\$1.00		\$0.00
K. Laboratory Analyses-Drinking Water (Water Supply Wells)					
14. BTEXN Including Oxygenates and 1,2 DCA (524.2)	7	sample	\$100.00		\$700.00
15. Oxygenates and 1,2 DCA (8260D)	7	sample	\$70.00		\$490.00
16. EDB (504.1)	6	sample	\$60.00		\$360.00
17. RCRA 8 Metals		sample	\$65.00		\$0.00
K. Laboratory Analyses-Soil					
18. BTEXN (8260D)		sample	\$33.00		\$0.00
19. PAH's (8270E)		sample	\$54.00		\$0.00
20. RCRA 8 Metals		sample	\$60.00		\$0.00
21. TPH-DRO (3550C/8015C)		sample	\$40.00		\$0.00
22. TPH- GRO (5035B/8015C)		sample	\$35.00		\$0.00
23. Grain size/hydrometer	3	sample	\$200.00		\$600.00
24. Total Organic Carbon		sample	\$30.00		\$0.00
K. Laboratory Analyses-Air					
25. BTEXN (TO-15)		sample	\$215.00		\$0.00
L. Aquifer Characterization*					
2. Slug Test	6	per test	\$200.00		\$1,200.00
3. Fractured Rock		per test	\$15.00		\$0.00
M. Free Product Recovery Rate Test*					
		each	\$5.00		\$0.00
P. Subsequent Survey*					
		each	\$50.00		\$0.00
Q. Disposal (gallons or tons)					
1. Wastewater	500	gallon	\$1.00		\$500.00
2. Free Product		gallon	\$0.10		\$0.00
3. Soil Treatment/Disposal	7	ton	\$75.00		\$525.00
4. Drilling fluids		gallon	\$0.10		\$0.00
R. Miscellaneous (attach receipts)					
Well Re-Development		per foot	\$2.00		\$0.00
Down - Hole Camera		per foot	\$2.00		\$0.00
C3-C44 Whole Oil (ASTM D3328)		sample	\$350.00		\$0.00
Fuel Oxygenates (1624 Mod)		sample	\$300.00		\$0.00
ALKYL Leads, EDB MMT (8080)		sample	\$300.00		\$0.00
C8-C40 Full Scan (ASTM 5739)		sample	\$500.00		\$0.00
Simulated Distillation (ASTM 2887)		sample	\$300.00		\$0.00
Parent & Alk. PAH Com. (8270 SIM)		sample	\$550.00		\$0.00
C3-C10 Piano (8260 Mod)		sample	\$450.00		\$0.00
C10+Alkane Fingerprint (ASTM 3328)		sample	\$450.00		\$0.00
Expert Data Interpretation & Report		sample	\$600.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
Y. Well Repair					
1. Additional Copies of the Report delivered	4	each	\$50.00		\$200.00
TOTAL					\$54,565.00

Tier II Contract 01-2021

*The appropriate mobilization cost can be added to complete these tasks, as necessary



Declination

MN GN

GN 0.73° E
MN 8.18° W

SCALE 1:6000

0 1000
FEET

Reference: Evergreen, South Carolina
USGS 7.5 Min. Quad
Contour Interval - 2 Meters

Midlands
Environmental
Consultants, Inc.

Site Location

Jake Huggins DBA Outpost at Willowcreek, LLC.
4925 Pamplico Highway, Florence, SC
SCDHEC Site ID# 18419

Figure 1

MECI 21-7709



Explanation:

- "Shallow" Field Screening Location (10' BG5)
- Vertical Field Screening Location (15', 20', 25', 30', 35', 40' BG5)

Midlands
Environmental
Consultants, Inc.

Proposed Field
Screening Locations

Jake Huggins DBA Outpost Willowcreek, LLC.
4925 Pamplico Highway, Florence, SC
UST Permit# 03423

Figure 3

MECI 21-7709



Explanation:

-  "Shallow" Well Location
(2'-12' BGS)
-  "Intermediate" Well
(20'-25' BGS)
-  "Deep" Well
(35'-40' BGS)

 Midlands
Environmental
Consultants, Inc.

Proposed Well
Locations

Jake Huggins DBA Outpost Willowcreek, LLC.
4925 Pamlico Highway, Florence, SC
UST Permit# 03423

Figure 4

MECI 21-7709



NOV 16 2021



BRYAN SHANE P.G.
PO BOX 854
LEXINGTON SC 29071

Re: **Notice to Proceed for Tier II Assessment**

JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC, 4925 Pamplico Hwy., Florence, SC
UST Permit #03423; Cost Agreement #64418; MWA # UMW-28719
Solicitation #IFB-5400020560; Purchase Order #4600813504
Site-Specific Work Plan and cost proposal received October 27, 2021
Florence County

Dear Mr. Shane:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the Site-Specific Work Plan and cost proposal for the referenced site. Assessment activities should begin immediately upon receipt of this letter.

Cost agreement number 64418 has been approved in the amount shown on the enclosed cost agreement and will be kept on file so that compensation can begin. **DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with the referenced Invitation for Bid (IFB).** Further, the DHEC reserves the right to question and/or reject costs if deemed unreasonable. The DHEC reserves the right to audit project records at any time during the project or after completion of the work. **The Tier II Assessment Report (1 hard copy, 1 electronic copy, 1 copy to each property owner who has a well on their property), QAPP checklist (Appendix K), and invoice should be submitted within 90 days from the date of this correspondence.**

Midlands Environmental Consultants, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference the approved cost agreement number on all pertinent invoices and correspondence.

Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from DHEC is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved in writing by DHEC in order for Midlands Environmental Consultants, Inc., to seek future cost compensation. Any temporary well converted to a permanent well will be reimbursed at the permanent well installation rate.

In accordance with section B of the current version of Quality Assurance Program Plan for the UST Management Division (QAPP), if the time interval between collection of groundwater samples from the permanent monitoring well network and receipt of the report and exceeds 60 days, the contractor will submit an updated comprehensive groundwater sampling report to include blank and duplicate samples for all wells and surface water at no additional cost. DHEC reserves the right to deny payment for laboratory analyses if the detection limit exceeds the reporting limit in Appendix F of the QAPP for the UST Division. As agreed to in the referenced contract, the owner/operator and property owner of the referenced facility will not be responsible for any costs associated with this assessment.

Monitoring well approval for up to 37 temporary field screening points and 25 permanent groundwater monitoring wells is enclosed for your records. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The Division suggests a roll off container be used for disposal. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than thirty (30) days. A legible copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the chemical of concern (CoC) concentrations, based on laboratory analysis, are below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater in a location acceptable to the property owner. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST permit number 03423 and Cost Agreement number 64418. If you have questions concerning this correspondence, or would like to submit additional information, please contact me by phone (803) 898-0671, fax (803) 898-0673, or e-mail dunnra@dhec.sc.gov.

Sincerely,



Robert A. Dunn, Hydrogeologist
Assessment & Non-Permitted Petroleum Section
Underground Storage Tank Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement
Monitoring Well Approval

Cc: Sedona Edgar, UST Management Division (w/ Enc)
Technical File (w/ enc.)



Monitoring Well Approval

Approval is hereby granted to: Midlands Environmental Consultants Inc.
(on behalf of): BW Stokes Oil Co Inc.
Facility: Jake Huggins DBA Outpost at Willowcreek LLC
4925 Pamplico Hwy., Florence, SC
Site ID Number: 03423
County: Florence

This approval is for the installation of up to 37 temporary field screening points and 25 permanent groundwater monitoring wells. The monitoring wells are to be installed in the approved location following South Carolina Well Standards, R.61-71, and the applicable guidance documents.

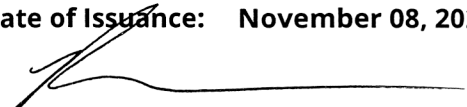
Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by DHEC shall be completed and submitted to DHEC within 30 days after well completion or abandonment unless another schedule has been approved by DHEC. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to DHEC within 30 days of receipt of laboratory results unless another schedule has been approved by DHEC as required by R.61-71.H.1.d.
5. If any of the information provided to DHEC changes, notification to Robert A. Dunn (tel: (803) 898-0671 or e-mail: dunnra@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. DHEC approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on site during well installation.

Date of Issuance: November 08, 2021

Approval #: UMW-28719


Robert A. Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement**64418**

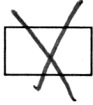
Facility: 03423 JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

DUNNRA

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	\$500.000	500.00
		2 TAX MAP	1.0000	\$250.000	250.00
B RECEPTOR SURVEY					
		B RECEPTOR SURVEY	1.0000	\$500.000	500.00
C SURVEY					
		1 COMPREHENSIVE SURVEY	1.0000	\$1,500.000	1,500.00
D MOB/DEMOB					
		1 EQUIPMENT	2.0000	\$1,600.000	3,200.00
		2 PERSONNEL	5.0000	\$450.000	2,250.00
F SOIL BORINGS (DRILLED)					
		1 SOIL BORING/FLD SCR. STANDARD	1,495.0000	\$15.000	22,425.00
I WELL INSTALLATION					
		2 WATER TABLE DRILL RIG 2" DIA	375.0000	\$22.000	8,250.00
		3 TELESCOPING	130.0000	\$35.000	4,550.00
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	25.0000	\$50.000	1,250.00
		3 WATER SUPPLY SAMPLE/ DUPLICATE	4.0000	\$20.000	80.00
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	5.0000	\$20.000	100.00
		8 FIELD BLANK	6.0000	\$25.000	150.00
K ANALYSES					
DW DRINKING WATER		14 BTEXNM+1,2 DCA (524.2) WSW	7.0000	\$100.000	700.00
		15 OXYGENATES & ETHANOL 8260B WSW	7.0000	\$70.000	490.00
		16 EDB (504.1) WSW	6.0000	\$60.000	360.00
GW GROUNDWATER		1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	43.0000	\$75.000	3,225.00
		7 EDB BY EPA 8011	40.0000	\$44.000	1,760.00
SOIL SOIL		23 GRAIN SIZE HYDROMETER	3.0000	\$200.000	600.00
L AQUIFER CHARACTERIZATION					
		2 SLUG TEST	6.0000	\$200.000	1,200.00
Q DISPOSAL					
		1 WASTEWATER	500.0000	\$1.000	500.00
		3 SOIL TREATMENT DISPOSAL	7.0000	\$75.000	525.00
Y WELL REPAIR					
		1 ADDITIONAL COPIES OF REPORT	4.0000	\$50.000	200.00
Total Amount					54,565.00

Document Receipt Information



Hard Copy



CD

Date Received

3-7-22

Permit Number

03423

Project Manager

Robert Dunn

Name of Contractor

MECI

Docket Title

Tier II

Document Number

31 tech

Scanned

TIER II ASSESSMENT REPORT

Jake Huggins
4925 Pamplico Highway
Florence, South Carolina
Florence County
SCDHEC Site ID #03423
CA # 64418

Prepared By:

 Midlands
Environmental
Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

March 7, 2022

MECI Project No. 21-7709



March 7, 2022

Mr. Robert Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Tier II Assessment Report
Jake Huggins
4925 Pamplico Highway
Florence, South Carolina
Florence County
SCDHEC Site ID #03423, CA #64418
MECI Project Number 21-7709
Certified Site Rehabilitation Contractor UCC-0009

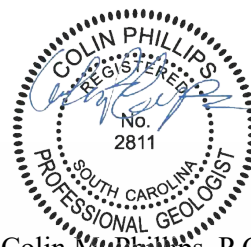
Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Tier II Report for the referenced site. This report describes assessment activities conducted at the site and results of a Tier II Risk Based Corrective Action Evaluation in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist



Colin M. Phillips, P.G.
Senior Hydrogeologist

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1.0 INTRODUCTION

A. Owner/Operator Information

Facility Name:	Jake Huggins	UST Permit #:	05303
Facility Address:	4925 Pamplico Highway, Florence SC 29505		
Name:	BW Stokes Oil Co Inc		
Address:	1001 Chase Street, Florence SC 29501		
Telephone #:	N/A		

B. Property Owner Information

Name	Barbara Williams
Tax Map #:	Florence County Tax Map #00213-01-019
Address	3309 Willow Creek Road Florence SC 29505
Telephone #	(843) 662-0808

C. Contractor Information

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P.O. Box 854, Lexington, SC 29071
Telephone #:	(803) 808-2043

D. SCDHEC Certified Well Driller

Name:	Environmental Drilling & Probing Services, LLC.
Driller:	Mr. Jared Pawless
Certification #:	D 2100
Address:	17538 Greenhill Road, Charlotte, NC 28278
Telephone #:	(704) 607-7529

E. SCDHEC Certified Labs

Name:	Eurofins TestAmerica
Certification #:	98001
Address:	5102 La Roche Avenue, Savannah, GA 31404
Telephone #:	(912) 354-7858

1.1 PROJECT INFORMATION

The subject site (Jake Huggins) is located at 4925 Pamplico Highway in Florence, Florence County, South Carolina (See Figure 1). The previous site has been demolished during the widening of Pamplico Highway (US Highway 51). Two releases of petroleum product were reported to the South Carolina Department of Health and Environmental Control (SCDHEC). The first release was reported to SCDHEC in February of 2002 and confirmed in March of 2002. The second release was reported to, and subsequently confirmed by SCDHEC in September of 2002. This second release was given NFA status in July 2020. The following table details the former UST system:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	2,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
2	4,000 Gal. Gasoline Plus	Abandoned	Removed (6/30/2016)
3	6,000 Gal. Gasoline Super/Premium	Abandoned	Removed (6/30/2016)
4	3,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
5	500 Gal. Kerosene	Abandoned	Removed (6/30/2016)

The following table presents previous assessment related activities performed at the site:

Date	Assessment Type	Notes:
Pre 2008	Unknown MWI	Completed by unknown contractor. Installation of MW-1 through MW-4.
8/26/2008	Tier II Assessment	Completed by Davis & Brown. Monitoring wells MW-5, MW-6 installed. MW-5 installed as IGWA associated with second release. Analytical results from MW-1, MW-4, MW-5 and MW-6 were above RBSL for Benzene, MTBE, Naphthalene.
5/12/2009	Tier II Assessment	Completed by Davis & Brown. Installation of MW-7 through MW-22, MW-1D, and MW-2D. Multiple wells detected concentrations above RBSL's.
6/4/2015	Groundwater Sampling Event	Completed by Davis & Brown. Monitoring wells MW-14 through 20 and MW-2D reported destroyed. Multiple wells detected concentrations above RBSL's.
Circa 2016	DOT Construction	SCDOT widening destroys remaining well network.

The above project information is based on MECI field notes and SCDHEC files.

2.0 RECEPTOR SURVEY

MECI personnel reviewed the surrounding area for a distance of approximately 1,000 feet to determine if there were any potential receptors for the migration of contaminated groundwater. The receptor search included a driving tour of the area, interviews with available property owners, search of the South Carolina Department of Natural Resources (SCDNR) water well database and review of the U.S. Fish & Wildlife Service's (USFWS) Wetlands Mapper. The SCDNR well database did not report any water supply wells within 1,000 feet of the site. The USFWS wetlands database indicated one surface water located approximately 475 feet west of the site.

MECI sent receptor survey letters to 24 property owners and received positive responses from 4 property owners.

Underground utilities include gas, water, and telecommunication. The utilities are buried approximately 2-4 feet below ground surface (BGS). Given the burial depth of the utilities and the depth to groundwater (<10 feet BGS), it is possible that utilities could serve as receptors or preferential pathways for contaminant migration.

The following table presents detailed receptor information:

Receptor ID	Property Owner	Florence Tax Map Number:	Notes:
WSW-1	William B. Winchester 3101 Willow Creek Road Florence SC 29505	00213-01-130	Sample collected from spigot on well inside barn. 34.096044, -79.701503
WSW-2	William B. Winchester 3101 Willow Creek Road Florence SC 29505	00213-01-130	Mr. Winchester told MECI personnel not to sample well due to tenants being unavailable during sampling activities. 34.095156, -79.700508
WSW-3	Linda L. Huggins 3695 Willow Creek Road Florence SC 29505	00213-01-052	Well Disconnected; Unable to sample with bailer due to metal elbow at well head. 34.096743, -79.696040
Possible WSW	Barbara Williams 3309 Willow Creek Road Florence SC 29505	0213-01-019	According to Ms. Williams, there is no well on the property.
Possible WSW	Barbara Williams 3309 Willow Creek Road Florence SC 29505	0213-01-017	According to Ms. Williams, there is no well on the property.

2.1 SURROUNDING PROPERTY USAGE

The site is located outside the city limits of Florence, Florence County, South Carolina. North of the site are residential properties. East of the site are agricultural properties. South of the site are agricultural properties. West of the site is Pamplico Highway, beyond which are residential properties. The former UST system was removed prior to the widening of Pamplico Highway in 2016.

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The site is located in the Coastal Plain Physiographic Province, which is generally comprised of Upper Cretaceous to present aged, wedge-shaped formations that begin at the “Fall Line” and dip towards the Atlantic Ocean with ground surface elevations typically less than 300 feet. The sedimentary soils of these formations consist of unconsolidated sand, clay, gravel, marl, cemented sands, and limestone that were deposited unconformably over Mesozoic/Paleozoic age basement rock consisting of granite, schist, and gneiss similar to the rocks of the Piedmont Physiographic Province. The thickness of the Coastal Plain sediments varies from zero at the “Fall Line” to more than 4,000 feet at the southern tip of South Carolina near Hilton Head Island.

The Coastal Plain province was formed during Quaternary, Tertiary, and late Cretaceous geologic periods and can be divided generally into three subunits: Upper Coastal Plain, Middle Coastal Plain, and Lower Coastal Plain. The Lower Coastal Plain comprises approximately one-half of the entire Atlantic Coastal Plain of South Carolina and is separated from the middle coastal plain by the Surry Scarp, a seaward facing scarp with a toe elevation of 90 to 100 feet. The Middle Coastal Plain and the Upper Coastal Plain each compose approximately one fourth of the Coastal Plain area and are separated by the Orangeburg Scarp, a seaward facing scarp with a toe elevation of 250 to 270 feet.

The Lower Coastal Plain is typically identified as the area east of the Surry Scarp below elevation 100 feet, with a vertical stratigraphic sequence overlying the basement rock consisting of unconsolidated Cretaceous, Tertiary, and Quaternary sedimentary deposits. The

surface deposits of the Lower Coastal Plain were formed during the Quaternary period which was characterized by the formation of the Carolina Bays and scarps throughout the east coast due to sea level rise and fall, the formation of the barrier islands, and the formation of flood plains from major rivers. Preceding the Quaternary period, limestone was deposited in the Lower Coastal Plain.

The Middle Coastal Plain is typically identified as the area between the Orangeburg Scarp and the Surry Scarp and falls between elevation 100 feet and 270 feet. The vertical stratigraphic sequence overlying the basement rock consists of unconsolidated Cretaceous and Tertiary sedimentary deposits formed as a result of scouring from the regressive cycles of the Ocean as it retreated. During the Eocene epoch of the Tertiary period, limestone was deposited in the Middle Coastal Plain.

The Upper Coastal Plain is typically identified as the area between the “Fall Line” and the Orangeburg Scarp and falls between elevations 270 feet and 300 feet. The Upper Coastal Plain was formed during the Tertiary and late Cretaceous periods and is marked by the formation of the Sandhills dunes as a result of fluvial deposits over the Coastal Plain consisting of marine sediments, limestone, and sand.

3.1 LOCAL SUBSURFACE CONDITIONS

The mean elevation of the property as depicted on the local USGS quadrangle (Evergreen, SC) appears to be approximately 33 meters (108 feet) above sea level.

According to Newell et al. (In Review), the subject site is located in the Bear Bluff Formation. The Bear Bluff formation is composed of gray to cream, fossiliferous, coarse-grained calcareous sand, and sandy limestone.

“Coastal Plain” soils were encountered during drilling activities conducted at the site. A generalized vertical profile to the investigated depth of 35’ feet below ground surface (BGS) is as follows:

Depth (Feet BGS)	Generalized Soil Description
0.0’-6.0’	Brown/Yellow Fine SAND
6.0’-16.0’	Pink/Grey Silty Fine SAND
16.0’-34.0’	Tan, Medium SAND
34.0’-35.0’	Dark Gray, Fine Sandy CLAY

The following table presents grain size distribution results from samples analyzed for grain size during the Tier II Assessment:

Sample ID#	Sample Depth	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Silt	% Clay
03423-SB01	8’-10’	0	0	38.0	40.2	4.2	17.6
03423-SB01	24’-26’	0	3.0	44.0	45.5	3.2	4.3
03423-SB01	32’-34’	0	4.0	3.0	3.7	49.7	39.6

The above descriptions provide a general summary of the subsurface conditions encountered. The attached Test Boring Records contain detailed information recorded at each new monitoring well location. The Test Boring Records represent our interpretation of the field logs based on examination

of the field samples. The lines designating the interfaces between various strata represent approximate boundaries, and the transition between strata may be gradational. Test Boring Records are located in Appendix E. Generalized subsurface conditions encountered in selected borings are illustrated in profile on Figures 5A and 5B. The locations of the profile lines are shown on Figure 5.

On February 15, 2022, stabilized groundwater levels were measured in the monitoring wells installed to monitor SCDHEC UST # 03423. Depth to groundwater ranged from 2.42 to 3.97 feet below top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2. A groundwater contour map illustrating the groundwater flow direction at the site is also depicted on Figures 4 and 4A. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on hydraulic gradient) of groundwater flow from the release is to the northwest towards drainage features associated with the Little Willow Creek in both the “shallow” and “deep” zones of the surficial aquifer.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- Soil Boring and collection of soil samples;
- field screening of groundwater samples collected from the site;
- construction of groundwater monitoring wells;
- installation of one temporary monitoring well;
- sampling of the monitoring well network and nearby receptors;
- chemical analyses of groundwater samples;
- hydrologic testing of selected monitoring wells; and,
- a comprehensive survey of subject site.

The monitoring well locations were selected based on the results of our field screening, existing site conditions, estimated groundwater flow direction, and drilling accessibility. The field screening points are illustrated on Figure 3 and monitoring well locations are presented on Figure 2.

4.1 FIELD SCREENING

Field screening activities took place at the site from January 10 to January 12, 2022. All borings were advanced by W. Walker Environmental of West Columbia, South Carolina (S.C. Driller Certification: William Walker # B 02402). The locations of the borings are presented on Figure 3. To prevent cross-contamination between borings, the reusable down-hole portion of the sampling device

was cleaned between borings. New plastic tubing was utilized at each location. Following the collection of the groundwater/soil sample, the hole left open by the sampling was back-filled with a bentonite/portland grout slurry pursuant to South Carolina well standards. Groundwater screening boring 1903 Well Records are included in Appendix D.

4.1.1 Soil Test Boring

One soil boring was advanced at the site to determine the site lithology beneath the site and to collect soil samples. Utilizing direct push techniques, continuous soil samples were collected throughout the boring depth in disposable plastic tubing (DT Soil Sampling System) until the target depth was reached. A total of 35.0 feet of test borings were advanced at the site. The soil boring records are summarized in Table 1.

4.1.2 Temporary Field Screening Points

Field screening points (FSP-1A through FSP-31D) were installed at the site utilizing 2.25-inch direct push rods to construct the boreholes. Once target depth was reached, the discrete sampler screen was exposed and the water samples were collected with a peristaltic pump. The sampling depth for each location was based on the water table depth and the ability to reach the desired depth below ground surface. A total of 1,390 feet of field screening was completed during the subject assessment.

The groundwater samples were screened utilizing a UVF-Trilogy Ultraviolet Fluorescence Spectrophotometer (TPH-GRO) and Frog-5000 Micro Gas Chromatograph (GC). Field screening results are presented on Table 1A and the GC results are presented in Appendix B.

4.2 MONITORING WELL INSTALLATION

On February 7-8, fourteen (14) monitoring wells were installed at the site. These wells were installed by Environmental Drilling and Probing Services, LLC. of Charlotte, North Carolina, (S.C. Driller Certification: Jared Pawless # D 2100). The wells were installed utilizing a Geoprobe 7822DT.

Thirteen of the monitoring wells were installed as single cased monitoring wells utilizing 7.5-inch outer diameter hollow stem augers. One double-cased “deep” monitoring well (DW-1) was installed utilizing 10.0-inch hollow stem augers for the 6-inch outer casing. The 6-inch outer casing was advanced to the appropriate depth and grouted in-place. The grout was allowed to cure and the remainder of the depth of the borehole was achieved using mud-rotary techniques, employing a 4 5/8-inch drag bit.

The following table presents well installation details:

Well Number	Single Cased	Double Cased	Screened Interval	Total Depth (ft)
03423-MW01	X		3-13	13.03
03423-MW02	X		3-13	13.16
03423-MW03	X		3-13	13.34
03423-MW04	X		3-13	12.60
03423-MW05	X		3-13	12.96
03423-MW06	X		3-13	12.81
03423-MW07	X		3-13	12.72
03423-MW08	X		3-13	13.69
03423-MW09	X		3-13	13.20
03423-MW10	X		3-13	13.30
03423-DW01		X	20-25	25.25
03423-DW02	X		20-25	24.84
03423-DW03	X		20-25	24.94
03423-DW04	X		20-25	24.98

After consultation with Mr. Robert Dunn on February 25th, it was determined a temporary well was necessary for future groundwater modeling purposes. On February 28th, MECI personnel mobilized to the site along with Mr. Jared Pawless of EDPS to install a hand-auger temporary well on the west side of the site. This temporary well was installed to a depth of 10 feet. After the sampling of this temporary well, the well was abandoned with a bentonite/cement slurry.

Drill cuttings were containerized and transported to Waste Management/Richland County Landfill in Elgin, SC by MECI. A total of 2.71 tons was disposed of in this manner. Disposal manifests for these soils are presented in Appendix G.

On February 11, 2022, the newly installed monitoring wells were developed by pumping until they were determined to be functioning properly and turbidity was reduced. These wells were developed utilizing a Mini-Monsoon well pump and disposable bailer. Development specifics are presented in Appendix E. The drum of purge water was treated by MECI personnel using a granular activated carbon drum. A total of 156.0 gallons of development water was disposed of in this manner. A disposal manifest for the treated purge water is presented in Appendix G.

4.3 WELL SAMPLING AND CHEMICAL ANALYSES

On February 14-15, 2022, MECI personnel collected groundwater samples from fourteen (14) monitoring wells, three (3) surface water locations and one (1) water supply well. On February 28, MECI personnel collected one (1) sample from the temporary well and three (3) additional surface water samples. At the request of SCDHEC, all monitoring wells were to be purged prior to sample collection. Fourteen (14) monitoring wells were purged prior to sample collection.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets present the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent revision of Standard Operating Procedures.

The following sampling matrix summarizes well development and requested analyses for each monitoring well:

Sample ID	Purge	No Purge	Gauge Only	Field Duplicate/Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-D)	8 Oxygenates (EPA Method 8260-D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)	PAHs (EPA Method 8270D)
							Analyte Sampled							
03423-MW01	X						X	X	X	X				
03423-MW02	X						X	X	X	X				
03423-MW03	X						X	X	X	X				
03423-MW04	X						X	X	X	X				
03423-MW05	X						X	X	X	X				
03423-MW06	X						X	X	X	X				
03423-MW07	X						X	X	X	X				
03423-MW08	X						X	X	X	X				
03423-MW09	X						X	X	X	X				
03423-MW10	X						X	X	X	X				
03423-DW01	X						X	X	X	X				
03423-DW02	X						X	X	X	X				
03423-DW03	X						X	X	X	X				
03423-DW04	X						X	X	X	X				
03423-TW01*		X					X	X	X	X				
03423-SW01		X					X	X	X	X				
03423-SW02		X					X	X	X	X				
03423-SW03		X					X	X	X	X				
03423-SW04		X					X	X	X	X				
03423-SW05		X					X	X	X	X				
03423-SW06		X					X	X	X	X				
DUP-1(MW-10)				X			X	X	X	X				
DUP (TW-1)				X			X	X	X	X				
Field Blank 1				X			X	X	X	X				
Field Blank 2				X			X	X	X	X				
Trip Blank 1							X		X	X				
Trip Blank 2							X		X	X				
WSW-1										X		X	X	
WSW DUP (WSW-1)										X		X	X	
WSW Field Blank										X		X	X	
WSW Trip Blank										X		X		
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide * = Temporary Well														

Groundwater samples obtained were sent to Eurofins TestAmerica, Savannah GA (SCDHEC Laboratory Certification #98001) for analysis. The results of the laboratory analyses are discussed in Section 5.1, summarized in Table 1B and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 161.5 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

4.4 INFLOW PERMEABILITY TESTS

Inflow permeability tests were performed on monitoring wells MW-2, MW-7, DW-2, DW-3 on to estimate the hydraulic conductivity of the formation materials exposed to the well screen at each location. Inflow test methodology and calculations are included in Appendix F.

4.5 SITE SURVEY

Following monitoring well installation, a comprehensive survey was conducted by Construction Support Services of Columbia, SC (Jay S. Joshi PLS# 14811) dated February 25, 2022, to locate the vertical and horizontal positions of the monitoring wells and relevant structures.

5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

5.1 ANALYTICAL RESULTS

As discussed in section 4.0, groundwater samples obtained from the monitoring well network and nearby receptor were analyzed for dissolved phase petroleum constituents.

5.1.1 Groundwater Analysis

Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer, with the highest dissolved concentrations being detected in the area of monitoring well MW-8. Of the twenty-two sampling points analyzed, seven of the monitoring wells (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10, DW-4) detected petroleum constituents above Risked Based Screening Levels (RBSL's).

Petroleum constituents detected above the established RBSL include:

Compound	RBSL (ug/l)	Wells Above RBSL
Product	>0.01'	N/A
Benzene	5	MW-1, MW-2, MW-6, MW-7, MW-8, MW-10, & DW-4
Toluene	1,000	MW-8 & DW-4
Ethylbenzene	700	MW-8 & MW-10
Total Xylenes	10,000	MW-8
Naphthalene	25	MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 & DW-4
MTBE	40	MW-1, MW-2, MW-6, MW-8 & MW-10
1,2 DCA	5	N/A
EDB	0.05	MW-8
Lead	15	N/A
TAA	240	MW-1, MW-2, MW-6, MW-7, MW-8 & MW-10
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	MW-1, MW-8 & MW-10
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results also detected petroleum constituents above the laboratory method detection limits and/or "J" values in samples collected from MW-3, MW-4, MW-5, MW-9, DW-2, and SW-4;

however, the concentrations detected did not exceed the RBSL. The results of the analyses for each monitoring well and specific parameters are listed on Table 1B and provided in Appendix B.

5.2 AQUIFER EVALUATION

As discussed in section 4.4, inflow permeability tests were performed on monitoring wells MW-2, MW-7, DW-2 and DW-3 on to estimate the hydraulic conductivity of the formation materials exposed to the well screen at each location. Inflow test methodology and calculations are included in Appendix F and test data is presented on Table 3.

5.2.1 Hydraulic Conductivity

Hydraulic conductivity is defined as the ability of the aquifer material to conduct water under a hydraulic gradient. As discussed in section 4.4, four slug tests were performed on monitoring wells MW-2, MW-7, DW-2 and DW-3 to determine the in-situ hydraulic conductivity of the aquifer and were evaluated using the Bouwer-Rice method for the aquifer. The average hydraulic conductivity values were determined to be 1.605×10^{-3} cm/sec in the “shallow” zone and 5.093×10^{-4} cm/sec in the “deep” zone.

The test results are as follows:

Well Number	Type of Material Exposed to Screened Interval	Hydraulic Conductivity (K) (cm/sec)
03423-MW02	Fine SAND	2.207×10^{-3}
03423-MW07	Fine SAND	1.003×10^{-3}
03423-DW02	Fine SAND	8.627×10^{-4}
03423-DW03	Fine SAND	1.558×10^{-4}

Notes: Field tests were reduced and the hydraulic conductivities computed using AQTESOLV Std.

5.2.2 Hydraulic Gradients

The horizontal hydraulic gradient is determined by dividing the difference in groundwater elevations at two locations by the horizontal distance between those locations along the direction of groundwater flow. The horizontal hydraulic gradient in the “shallow” zone was determined to be approximately 1.18×10^{-2} feet/feet between groundwater monitoring wells MW-2/MW-7 and approximately 1.03×10^{-2} feet/feet in the “deep” zone between groundwater monitoring wells DW-2/DW-3.

The vertical gradient from the shallow well to a deeper well represents the difference in hydraulic head (in feet) divided by the distance between the midpoints of the screened intervals (in feet). Current data reveals vertical flow gradients at the site are generally flat.

5.2.3 Effective Porosity

Fetter (1980) defines effective porosity as “The amount of interconnected pore space through which fluids can pass, expressed as a percent of bulk volume. Part of the total porosity will be occupied by static fluid being held to the mineral surface by surface tension, so effective porosity will be less than total porosity”. Effective porosity can be estimated using the results of a tracer test. Although this is potentially the most accurate method, time and monetary constraints can be

prohibitive, therefore the most common technique is to use an accepted literature value for the types of materials making up the aquifer matrix.

An effective porosity value of 0.20 was estimated for the wells which were screened in a fine sand formation. Effective porosity values of these formations were estimated based on published values of effective porosity (McWorter and Sunada 1977).

5.2.4 Groundwater Flow Velocity

In addition to hydraulic gradients (i), the rates of groundwater movement (v) are a function of hydraulic conductivity (k) and effective porosity (ne), as indicated by the equation $v = ki/ne$. Based on those parameters, the average lateral groundwater movement in the sands at the site can be expected to be approximately 97.98 feet per year in the “shallow” zone and 27.14 feet per year in the “deep” zone. The rate of migration of the dissolved organic constituent(s), however, may be substantially slower than groundwater itself, due to retardation (Freeze and Cherry, 1979, pp. 402-408) and intrinsic aerobic biodegradation (Bucheck et. al., 1993). The hydraulic gradient and groundwater velocity calculations are provided on Table 3 and in Appendix F.

6.0 ASSESSMENT SUMMARY

- Based on the results of our Tier II Activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The contaminants appear to be gasoline range constituents.
- Impacted groundwater appears to be flowing northwest towards drainage features associated with the Little Willow Creek.
- Fourteen (14) additional monitoring wells and one (1) temporary well were installed at the site to define the contaminant plume emanating from the site.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. Of the twenty-two sampling points analyzed, seven of the monitoring wells (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10, DW-4) detected petroleum constituents above Risked Based Screening Levels (RBSL's). The analytical results also detected petroleum constituents above the laboratory method detection limits and/or “J” values in samples collected from MW-3, MW-4, MW-5, MW-9, DW-2, and SW-4; however, the concentrations detected did not exceed the RBSL.
- Inflow permeability tests were performed on monitoring wells monitoring wells MW-2, MW-7, DW-2 and DW-3 to determine the in-situ hydraulic conductivity of the aquifer and were evaluated using the Bouwer-Rice method for the aquifer. The average hydraulic conductivity values were determined to be 1.605×10^{-3} cm/sec in the “shallow” zone and 5.093×10^{-4} cm/sec in the “deep” zone.
- The horizontal hydraulic gradient in the “shallow” zone was determined to be approximately 1.18×10^{-2} feet/feet between groundwater monitoring wells MW-2/MW-7 and approximately 1.03×10^{-2} feet/feet in the “intermediate” zone between groundwater monitoring wells DW-2/DW-3. Current data reveals vertical flow gradients at the site are generally flat.
- The average lateral groundwater movement in the formations at the site can be expected to be approximately 97.98 feet per year in the “shallow” zone and 27.14 feet per year in the

“intermediate” zone; however, may be substantially slower than groundwater itself, due to retardation (Freeze and Cherry, 1979, pp. 402-408) and intrinsic aerobic biodegradation (Bucheck et. al., 1993).

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples MW-10, TW-1, and WSW-1. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

7.0 COMMENTS & RECOMMENDATIONS

- Analytical results from the surface water samples were either non-detect or below RBSL's for all chemicals of concern.
- The plume extends for approximately 500 feet north to south and 230 feet east to west.
- MECI recommends continued monitoring of the well network and nearby receptors to establish trends in groundwater contaminant concentrations. If trends show that concentrations are increasing or if any of the nearby receptors become impacted above RBSL's, further investigation may be necessary.

8.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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TABLES

TABLE 1
SOIL BORING RECORDS
JAKE HUGGINS
FLORENCE, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7709
UST PERMIT# 03423

Sample Location	Sample Date	Sample Depth	Soil Description	PID Response
SB-1	1/10/2022	0-2 Feet (BGS)	No Return	0.0
		2-4 Feet (BGS)	Brown, Organic Fine SAND	1.1
		4-6 Feet (BGS)	Yellow, Silty Fine SAND	0.0
		6-8 Feet (BGS)	Mottled, Red/Grey, Silty Fine SAND	0.0
		8-10 Feet (BGS)	SAA	0.0
		10-12 Feet (BGS)	Mottled, Pink/Grey, Silty Fine SAND	0.0
		12-14 Feet (BGS)	SAA	0.0
		14-16 Feet (BGS)	Mottled, White/Yellow, Silty Fine SAND	0.0
		16-18 Feet (BGS)	Yellow, Medium to Coarse SAND	10.7
		18-20 Feet (BGS)	Yellow, Fine to Medium Sandy CLAY	0.0
		20-22 Feet (BGS)	Tan, Medium to Coarse SAND	9.5
		22-24 Feet (BGS)	Tan, Clayey Medium SAND	2.4
		24-26 Feet (BGS)	Tan, Medium to Coarse SAND	0.0
		26-28 Feet (BGS)	Tan, Clayey Medium to Coarse SAND	0.0
		28-30 Feet (BGS)	Tan, Medium to Coarse SAND	0.0
		30-32 Feet (BGS)	SAA	0.0
		32-34 Feet (BGS)	SAA	26.4
		34-35 Feet (BGS)	Dark Gray, Fine Sandy CLAY	9.2

Notes:

1. BGS = Below Ground Surface
2. PID = Photoionization Detector
3. Borings were abandoned with a concrete/bentonite slurry after completion utilizing the trimme method.
4. SAA = Same As Above

TABLE 1A
GROUNDWATER FIELD SCREENING COC CONCENTRATION DATA
JAKE HUGGINS
FLORENCE, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7709
UST PERMIT# 03423

Boring Number	Sample Date	Sample Depth (ft)	GPS Coordinates		TPH-GRO (PPM)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)
			Latitude	Longitude		5	1,000	700	10,000	25	40
RBSL (µg/l)						5	1,000	700	10,000	25	40
SB-1	1/10/2022	35'	34.095130	-79.696604	NT	NT	NT	NT	NT	NT	NT
FSP-1A	1/10/2022	29'-33'	34.095130	-79.696604	<0.50	ND	1.24	0.09	2.03	NT	ND
FSP-1B	1/10/2022	24'-28'	34.095130	-79.696604	<0.50	ND	1.00	0.17	2.03	NT	ND
FSP-1C	1/10/2022	19'-23'	34.095130	-79.696604	<0.50	ND	0.83	ND	0.90	NT	ND
FSP-1D	1/10/2022	14'-18'	34.095130	-79.696604	<0.50	ND	0.74	0.07	0.82	NT	ND
FSP-2	1/10/2022	14'-18'	34.095021	-79.696628	<0.50	ND	0.82	ND	0.75	NT	ND
FSP-3	1/10/2022	14'-18'	34.095339	-79.696734	<0.50	15.26	0.88	ND	1.96	NT	1.82
FSP-4	1/10/2022	14'-18'	34.094958	-79.696768	<0.50	ND	0.74	ND	0.67	NT	ND
FSP-5A	1/10/2022	29'-33'	34.095050	-79.696808	DRY	DRY	DRY	DRY	DRY	DRY	DRY
FSP-5B	1/10/2022	24'-28'	34.095050	-79.696808	0.78	3.57	116.15	9.49	47.42	ND	ND
FSP-5C	1/10/2022	19'-23'	34.095050	-79.696808	0.79	6.57	179.84	19.33	133.84	NT	ND
FSP-5D	1/10/2022	14'-18'	34.095050	-79.696808	0.60	3.28	84.58	8.37	50.9	NT	ND
FSP-6	1/10/2022	14'-18'	34.095147	-79.696867	0.52	0.76	7.92	1.89	8.63	NT	0.66
FSP-7	1/10/2022	14'-18'	34.095314	-79.696983	0.54	93.23	33.80	8.97	58.70	ND	12.28
FSP-8	1/10/2022	14'-18'	34.095545	-79.696746	<0.50	47.14	ND	ND	0.65	NT	1.20
FSP-9	1/10/2022	14'-18'	34.095398	-79.697029	<0.50	51.78	1.48	0.11	0.82	34.26	15.97
FSP-10A	1/11/2022	26'-30	34.095593	-79.697127	0.52	ND	1.88	0.12	2.05	NT	ND
FSP-10B	1/11/2022	21'-25'	34.095593	-79.697127	0.56	ND	1.68	ND	1.04	NT	ND
FSP-10C	1/11/2022	16'-20'	34.095593	-79.697127	<0.50	ND	1.26	0.09	1.87	NT	ND
FSP-10D	1/11/2022	11'-15'	34.095593	-79.697127	<0.50	ND	1.30	0.08	0.82	NT	4.47
FSP-11	1/11/2022	14'-18'	34.095707	-79.697255	<0.50	ND	1.78	0.16	2.69	NT	13.09
FSP-12	1/11/2022	14'-18'	34.095888	-79.697343	<0.50	ND	1.47	0.12	2.15	NT	3.61
FSP-13	1/11/2022	14'-18'	34.096029	-79.697438	<0.50	ND	0.88	ND	0.68	NT	1.89
FSP-14A	1/11/2022	26'-30'	34.096260	-79.697585	DRY	DRY	DRY	DRY	DRY	DRY	DRY
FSP-14B	1/11/2022	21'-25'	34.096260	-79.697585	<0.50	ND	0.71	ND	0.65	NT	ND
FSP-14C	1/11/2022	16'-20'	34.096260	-79.697585	<0.50	ND	0.78	ND	0.64	NT	0.41
FSP-14D	1/11/2022	11'-15'	34.096260	-79.697585	<0.50	ND	0.84	ND	0.65	NT	0.12
FSP-15A	1/11/2022	26'-30'	34.096685	-79.697817	DRY	DRY	DRY	DRY	DRY	DRY	DRY
FSP-15B	1/11/2022	21'-25'	34.096685	-79.697817	DRY	DRY	DRY	DRY	DRY	DRY	DRY
FSP-15C	1/11/2022	16'-20'	34.096685	-79.697817	<0.50	ND	0.81	ND	0.67	NT	ND
FSP-15D	1/11/2022	11'-15'	34.096685	-79.697817	<0.50	ND	0.73	ND	0.64	NT	ND
FSP-16	1/11/2022	14'-18'	34.095967	-79.697035	<0.50	ND	0.78	ND	0.66	NT	1.07
FSP-17A	1/11/2022	26'-30'	34.095883	-79.696909	<0.50	ND	0.84	ND	0.68	NT	0.76

Notes:

1. BDL = Below Practical Quantitative Limits
2. mg/l = micrograms per liter
3. PPM = Parts Per Million
4. GRO = Gasoline Range Organics

5. DRY = Dry Hole
6. NT = Not Tested
7. ND = Not Detected
8. PR = Probe Refusal

TABLE 1A
GROUNDWATER FIELD SCREENING COC CONCENTRATION DATA
JAKE HUGGINS
FLORENCE, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7709
UST PERMIT# 03423

Boring Number	Sample Date	Sample Depth (ft)	GPS Coordinates		TPH-GRO (PPM)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Naphthalene (µg/l)	MTBE (µg/l)
			Latitude	Longitude		5	1,000	700	10,000	25	40
RBSL (µg/l)											
FSP-17B	1/11/2022	21'-25'	34.095883	-79.696909	<0.50	ND	0.86	ND	0.67	NT	0.55
FSP-17C	1/11/2022	16'-20'	34.095883	-79.696909	<0.50	ND	0.99	0.08	0.71	NT	0.38
FSP-17D	1/11/2022	11'-15'	34.095883	-79.696909	<0.50	ND	1.17	ND	0.70	NT	0.93
FSP-18	1/11/2022	14'-18'	34.095712	-79.696849	<0.50	23.84	0.70	ND	0.64	ND	1.40
FSP-19A	1/11/2022	26'-30'	34.095588	-79.696522	<0.50	ND	0.77	ND	0.66	NT	ND
FSP-19B	1/11/2022	21'-25'	34.095588	-79.696522	<0.50	ND	1.02	0.09	0.75	NT	ND
FSP-19C	1/11/2022	16'-20'	34.095588	-79.696522	<0.50	ND	0.77	ND	0.67	NT	0.16
FSP-19D	1/11/2022	11'-15'	34.095588	-79.696522	<0.50	ND	1.88	ND	ND	NT	ND
FSP-20	1/11/2022	14'-18'	34.095742	-79.696195	<0.50	ND	4.09	0.41	BDL	NT	ND
FSP-21A	1/11/2022	26'-30'	34.095447	-79.696044	<0.50	ND	3.75	0.10	1.85	NT	ND
FSP-21B	1/11/2022	21'-25'	34.095447	-79.696044	<0.50	ND	3.42	0.12	1.02	NT	ND
FSP-21C	1/11/2022	16'-20'	34.095447	-79.696044	<0.50	ND	2.36	0.22	2.25	NT	ND
FSP-21D	1/11/2022	11'-15'	34.095447	-79.696044	<0.50	ND	3.96	0.59	4.34	NT	ND
FSP-22	1/12/2022	14'-18'	34.095202	-79.695936	<0.50	ND	3.06	ND	ND	NT	ND
FSP-23	1/12/2022	14'-18'	34.095688	-79.696536	<0.50	ND	4.75	0.19	1.76	NT	ND
FSP-24A	1/12/2022	26'-30'	34.095923	-79.696675	<0.50	ND	6.00	ND	0.60	NT	1.08
FSP-24B	1/12/2022	21'-25'	34.095923	-79.696675	<0.50	ND	3.18	ND	0.65	NT	0.55
FSP-24C	1/12/2022	16'-20'	34.095923	-79.696675	<0.50	ND	3.17	ND	ND	NT	0.78
FSP-24D	1/12/2022	11'-15'	34.095923	-79.696675	<0.50	ND	2.89	ND	ND	NT	0.72
FSP-25	1/12/2022	14'-18'	34.096003	-79.696738	<0.50	ND	2.23	ND	ND	NT	ND
FSP-26	1/12/2022	14'-18'	34.094647	-79.696600	<0.50	ND	2.60	ND	ND	NT	ND
FSP-27	1/12/2022	14'-18'	34.094686	-79.697041	<0.50	ND	2.29	ND	ND	NT	ND
FSP-28A	1/12/2022	26'-30'	34.094998	-79.697256	<0.50	ND	3.73	ND	ND	NT	ND
FSP-28B	1/12/2022	21'-25'	34.094998	-79.697256	<0.50	ND	8.46	ND	ND	NT	ND
FSP-28C	1/12/2022	16'-20'	34.094998	-79.697256	<0.50	ND	4.39	ND	ND	NT	ND
FSP-28D	1/12/2022	11'-15'	34.094998	-79.697256	<0.50	ND	2.78	ND	ND	NT	ND
FSP-29	1/12/2022	14'-18'	34.095130	-79.697343	<0.50	ND	3.17	ND	0.63	NT	0.39
FSP-30	1/12/2022	14'-18'	34.095268	-79.697440	<0.50	0.95	4.69	ND	0.67	NT	2.83
FSP-31A	1/12/2022	26'-30'	34.095521	-79.697585	<0.50	ND	7.16	ND	ND	NT	ND
FSP-31B	1/12/2022	21'-25'	34.095521	-79.697585	<0.50	ND	5.00	ND	ND	NT	ND
FSP-31C	1/12/2022	16'-20'	34.095521	-79.697585	<0.50	ND	4.68	ND	ND	NT	ND
FSP-31D	1/12/2022	11'-15'	34.095521	-79.697585	<0.50	2.03	3.03	ND	ND	NT	0.03

Notes:

1. BDL = Below Practical Quantitative Limits
2. mg/l = micrograms per liter
3. PPM = Parts Per Million
4. GRO = Gasoline Range Organics

5. DRY = Dry Hole
6. NT = Not Tested
7. ND = Not Detected
8. PR = Probe Refusal

TABLE 1B
GROUNDWATER COC CONCENTRATION DATA
JAKE HUGGINS
FEBRUARY 14-15, 2022 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7709
UST PERMIT# 03423

Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	2/15/2022	624	19.3	158	67.9	78.7	264	<0.250	<0.00512	3030	56.9	<7.00	169	<6.90	160	<50.0	<0.720
03423-MW02	2/15/2022	203	<0.250	0.522 J	1.34	25.7	405	<0.250	<0.00515	442	26.9	<7.00	83.3	<6.90	78.2	<50.0	<0.720
03423-MW03	2/15/2022	<0.270	3.15	0.279 J	<0.230	<2.40	1.95 J	<0.250	<0.00486	<8.60	<0.780	<7.00	<6.90	<6.90	0.893 J	<50.0	<0.720
03423-MW04	2/15/2022	<0.270	<0.250	0.252 J	1.91	<2.40	<0.810	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-MW05	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	14.3	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	3.06 J	<50.0	<0.720
03423-MW06	2/15/2022	356	30.1	134	11.6	87.5	166	<1.25	<0.00497	2410	46.4	<35.0	86.6 J	<34.5	122	<250	<3.60
03423-MW07	2/15/2022	37.2	0.699 J	82.1	3.95	58.3	15.8	<0.250	<0.00492	1030	4.67	<7.00	31.3 J	<6.90	20.3	<50.0	<0.720
03423-MW08	2/15/2022	3720	21100	2200	12800	781	690	<12.5	0.121	8690	127	<350	370 J	<345	268 J	<2500	<36.0
03423-MW09	2/15/2022	0.278 J	3.89	4.80	27.4	<2.40	<0.810	<0.250	<0.00494	77.4	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-MW10	2/15/2022	1070	297	753	2380	342	510	<12.5	<0.00507	7950	120	<350	<345	<345	339 J	<2500	<36.0
03423-DW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00529	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-DW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	7.40	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	2.61 J	<50.0	<0.720
03423-DW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00485	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-DW04	2/15/2022	67.5	1890	611	4230	181	<0.810	<0.250	<0.00489	<8.60	<0.780	<7.00	<6.90	<6.90	1.69 J	<50.0	<0.720
03423-TW01*	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00636	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	0.832 J	<0.250	<0.00494	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00497	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW04	2/28/2022	<0.270	15.9	0.228 J	<0.230	<2.40	<0.810	<0.250	<0.00492	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW05	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW06	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00507	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-WSW01	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00513	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (MW10)	2/15/2022	1090	359	783	2440	325	496	<2.50	<0.00499	7770	129	<70.0	298 J	<69.0	343	<500	<7.20
DUP-1 (TW01)	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00581	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
WSW DUP (WSW01)	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
Field Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
WSW Field Blank	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00499	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
Trip Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
WSW Trip Blank	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

Notes:

1. BDL = Below Practical Quantitative Limits

2. ug/l = micrograms per liter

3. mg/l = milligrams per liter

4. MTBE = Methyl-Tertiary-Butyl Ether

5. See Appendix for Laboratory Detection Limits

6. NL = Not Located

7. DRY = Well was Dry at the time of Sampling

8. NT = Not Tested

9. EDB = Ethylene Dibromide

10. 1,2 DCA = 1,2-Dichloroethane

11. FPP = Free Phase Petroleum Product

12. * = Wells Have Been Abandoned

13. "J" Values used in Total BTEX Calculations

14. B = Detected in Method Blank

15. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

16. S = MS/MSD Failure

17. P = The RPD between the two columns exceeds 40%.

18. DIPE = Diisopropyl Ether

19. ETBE = Ethyl ter-butyl Ether

20. TAA = tert-Amyl Alcohol

21. TAME = tert-Amyl Methyl Ether

22. TBA = ter-Butyl Alcohol

23. TBF = tert-Butyl Formate

24. TAME = tert-Amyl Methyl Ether

25. * = TW-1 was a temporary well and has been abandoned.

**TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
FEBRUARY 14-15, 2022 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7709
UST PERMIT# 03423**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW01	2/15/2022	3-13	***	2.67	***	98.72	96.05
03423-MW02	2/15/2022	3-13	***	2.64	***	96.40	93.76
03423-MW03	2/15/2022	3-13	***	2.42	***	94.95	92.53
03423-MW04	2/15/2022	3-13	***	2.61	***	94.88	92.27
03423-MW05	2/15/2022	3-13	***	2.46	***	94.88	92.42
03423-MW06	2/15/2022	3-13	***	2.83	***	97.86	95.03
03423-MW07	2/15/2022	3-13	***	2.91	***	100.29	97.38
03423-MW08	2/15/2022	3-13	***	3.76	***	100.92	97.16
03423-MW09	2/15/2022	3-13	***	3.97	***	100.92	96.95
03423-MW10	2/15/2022	3-13	***	2.93	***	99.69	96.76
03423-DW01	2/15/2022	20-25	***	2.54	***	98.57	96.03
03423-DW02	2/15/2022	20-25	***	2.51	***	96.48	93.97
03423-DW03	2/15/2022	20-25	***	2.92	***	100.05	97.13
03423-DW04	2/15/2022	20-25	***	3.86	***	101.03	97.17

Notes:

1. Elevations are NAV88.

2. Groundwater depths were measured from the top of the PVC riser pipe.

3. NM = Not Measured

4. DRY = Well Gauged DRY

5. TD = Total Depth

6. * = Groundwater elevation corrected for the presence of free product using a specific gravity of 0.85.

**TABLE 3
AQUIFER CHARACTERISTICS
JAKE HUGGINS
FLORENCE, SOUTH CAROLINA
MECI PROJECT NUMBER 21-7709
UST PERMIT# 03423**

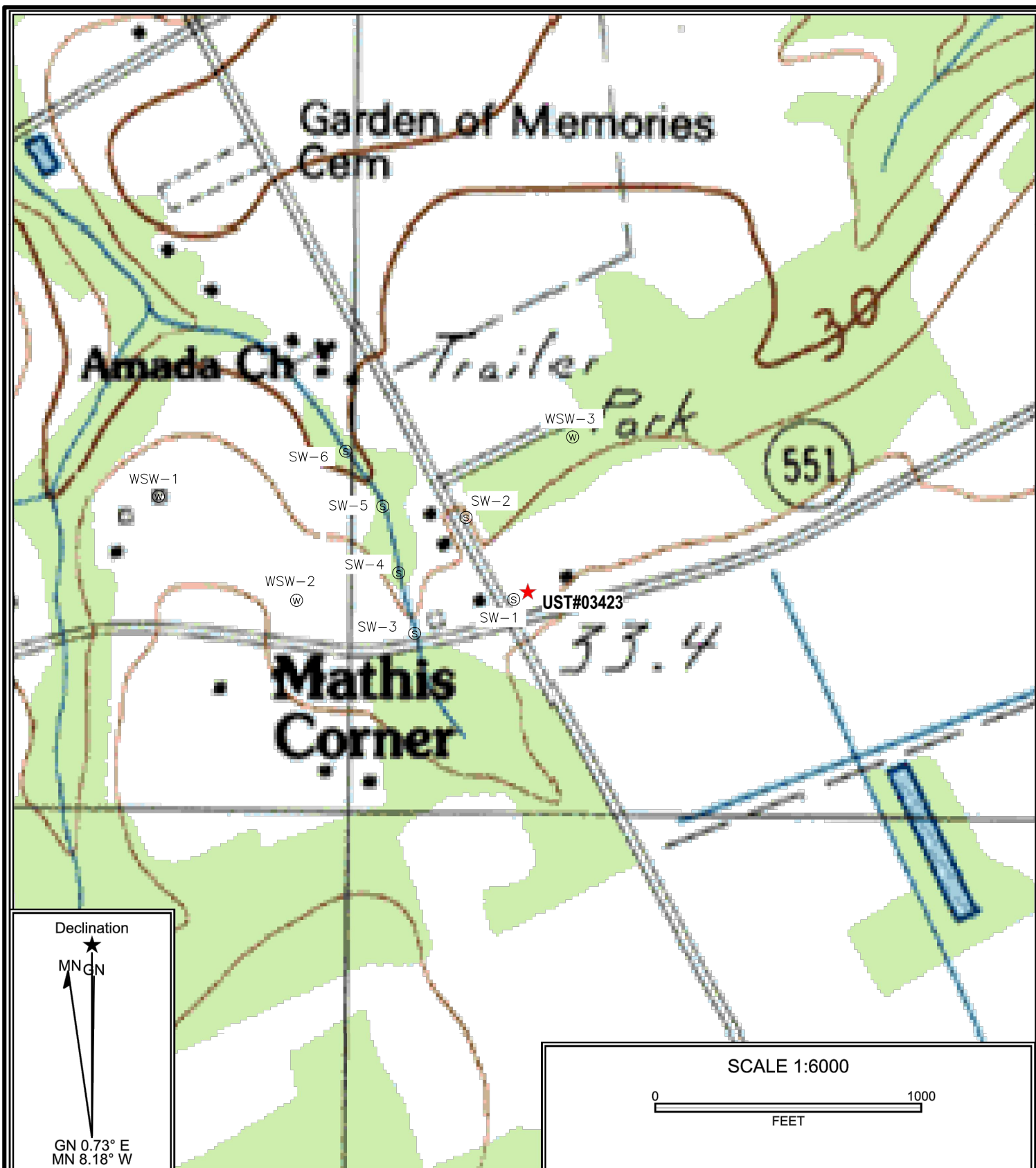
Shallow Wells								
Well ID#	Hydraulic Conductivity (K) (centimeters/second)	Hydraulic Conductivity (K) (feet/day)	Hydraulic Conductivity (K) (feet/year)	Hydraulic Gradient (i) (unitless)	Effective Porosity (ne) (unitless)	Groundwater Velocity (V) (feet/day)	Groundwater Velocity (V) (feet/year)	Groundwater Velocity (V) (meters/second)
03423-MW02	2.207E-03	6.26	2283.57	0.0118	0.20	3.69E-01	134.73	1.30E-06
03423-MW07	1.003E-03	2.84	1037.80	0.0118	0.20	1.68E-01	61.23	5.92E-07
Mathematical Mean	1.605E-03	4.55	1660.69	0.0118	0.20	2.68E-01	97.98	9.47E-07

Deep Wells								
Well ID#	Hydraulic Conductivity (K) (centimeters/second)	Hydraulic Conductivity (K) (feet/day)	Hydraulic Conductivity (K) (feet/year)	Hydraulic Gradient (i) (unitless)	Effective Porosity (ne) (unitless)	Groundwater Velocity (V) (feet/day)	Groundwater Velocity (V) (feet/year)	Groundwater Velocity (V) (meters/second)
03423-DW02	8.627E-04	2.45	892.63	0.0103	0.20	1.26E-01	45.97	4.44E-07
03423-DW03	1.558E-04	0.44	161.21	0.0103	0.20	2.27E-02	8.30	8.02E-08
Mathematical Mean	5.093E-04	1.44	526.92	0.0103	0.20	7.43E-02	27.14	2.62E-07

Notes:

1. Groundwater velocity derived from the equation $V = Ki/n$.
2. Effective porosity values for the wells screened in a fine sand formation were estimated from published values of effective porosity for fine sand (ranged from 0.10 to 0.30; arithmetic mean 0.20) (McWorter and Sunada 1977).
3. Hydraulic gradients for the shallow wells were based on distance between MW-2/MW-7. Hydraulic gradients for the intermediate wells were based on distance between DW-2/DW-3.

FIGURES



Reference: Evergreen, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval - 2 Meters

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Site Location

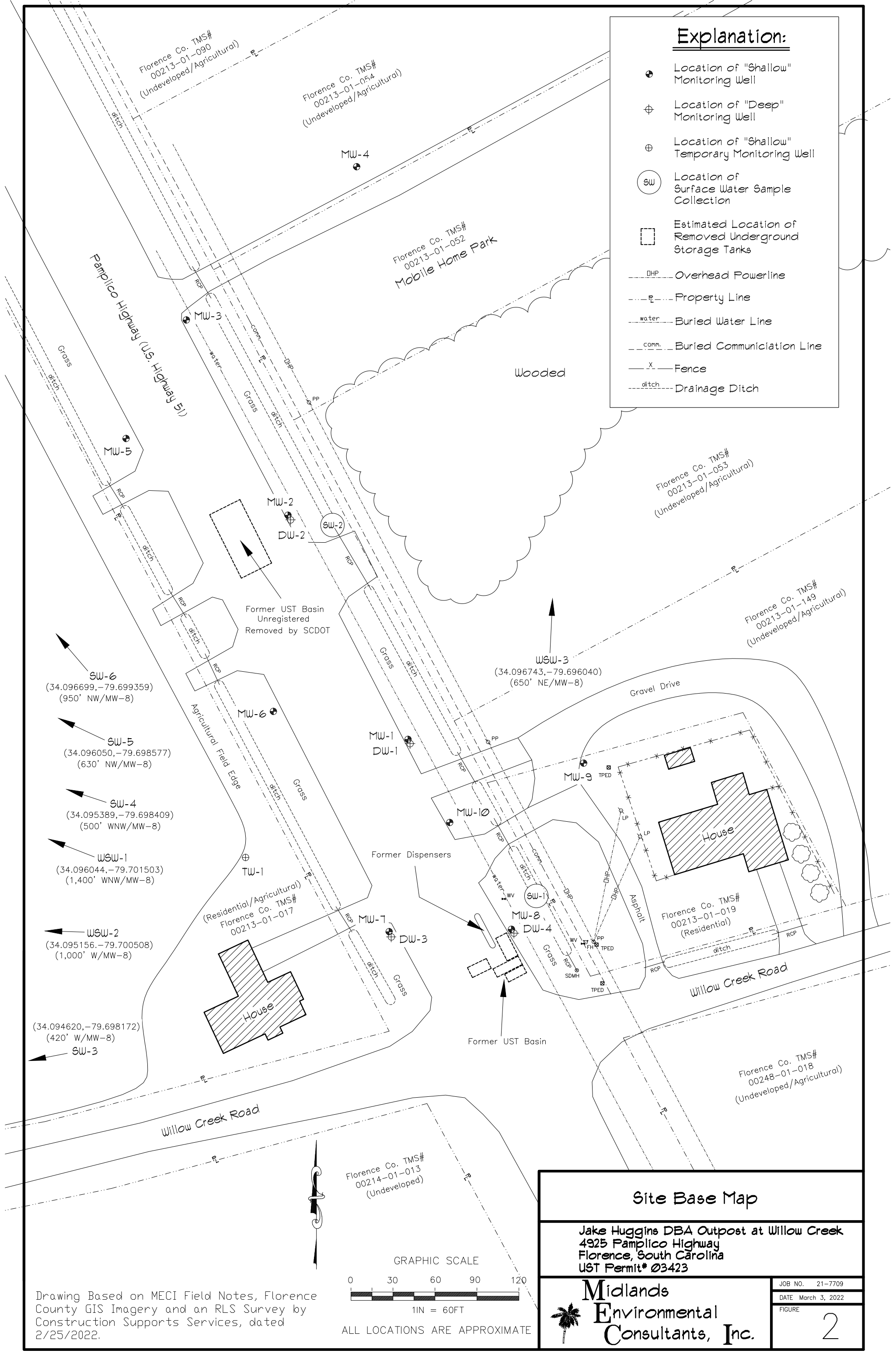
Jake Huggins DBA Outpost at Willowcreek, LLC.
 4925 Pamplico Highway, Florence, SC
 UST Permit# 18419

Figure 1

MECI 21-7709

Explanation:

- Location of "Shallow" Monitoring Well
- Location of "Deep" Monitoring Well
- Location of "Shallow" Temporary Monitoring Well
- Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Communication Line
- Fence
- Drainage Ditch



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

GRAPHIC SCALE
0 30 60 90 120
1IN = 60FT
ALL LOCATIONS ARE APPROXIMATE

Site Base Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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JOB NO. 21-7709
DATE March 3, 2022
FIGURE 2

Boring Number	Sample Depth (ft)	TPH-GRO (PPM)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	Boring Number	Sample Depth (ft)	TPH-GRO (PPM)	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
			(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)				(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
RBSL (µg/l)	35'	NT	5	1,000	700	10,000	40	25	RBSL (µg/l)	21'-25'	<0.50	5	1,000	700	10,000	40	25
SB-1	NT	NT	NT	NT	NT	NT	NT	NT	FSP-17B	21'-25'	<0.50	ND	0.86	ND	0.67	0.55	NT
FSP-1A	29'-33'	<0.50	ND	1.24	0.09	2.03	ND	NT	FSP-17C	16'-20'	<0.50	ND	0.99	0.08	0.71	0.38	NT
FSP-1B	24'-28'	<0.50	ND	1.00	0.17	2.03	ND	NT	FSP-17D	11'-15'	<0.50	ND	1.17	ND	0.70	0.93	NT
FSP-1C	19'-23'	<0.50	ND	0.83	ND	0.90	ND	NT	FSP-18	14'-18'	<0.50	23.84	0.70	ND	0.64	1.40	ND
FSP-1D	14'-18'	<0.50	ND	0.74	0.07	0.82	ND	NT	FSP-19A	26'-30'	<0.50	ND	0.77	ND	0.66	ND	NT
FSP-2	14'-18'	<0.50	ND	0.82	ND	0.75	ND	NT	FSP-19B	21'-25'	<0.50	ND	1.02	0.09	0.75	ND	NT
FSP-3	14'-18'	<0.50	15.26	0.88	ND	1.96	1.82	NT	FSP-19C	16'-20'	<0.50	ND	0.77	ND	0.67	0.16	NT
FSP-4	14'-18'	<0.50	ND	0.74	ND	0.67	ND	NT	FSP-19D	11'-15'	<0.50	ND	1.88	ND	ND	ND	NT
FSP-5A	29'-33'	DRY	DRY	DRY	DRY	DRY	DRY	DRY	FSP-20	14'-18'	<0.50	ND	4.09	0.41	BDL	ND	NT
FSP-5B	24'-28'	0.78	3.57	116.15	9.49	47.42	ND	ND	FSP-21A	26'-30'	<0.50	ND	3.75	0.10	1.85	ND	NT
FSP-5C	19'-23'	0.79	6.57	179.84	19.33	133.84	ND	NT	FSP-21B	21'-25'	<0.50	ND	3.42	0.12	1.02	ND	NT
FSP-5D	14'-18'	0.60	3.28	84.58	8.37	50.9	ND	NT	FSP-21C	16'-20'	<0.50	ND	2.36	0.22	2.25	ND	NT
FSP-6	14'-18'	0.52	0.76	7.92	1.89	8.63	0.66	ND	FSP-21D	11'-15'	<0.50	ND	3.96	0.59	4.34	ND	NT
FSP-7	14'-18'	0.54	93.23	33.80	8.97	58.70	12.28	ND	FSP-22	14'-18'	<0.50	ND	3.06	ND	ND	ND	NT
FSP-8	14'-18'	<0.50	47.14	ND	ND	0.65	1.20	NT	FSP-23	14'-18'	<0.50	ND	4.75	0.19	1.76	ND	NT
FSP-9	14'-18'	<0.50	51.78	1.48	0.11	0.82	15.97	34.26	FSP-24A	26'-30'	<0.50	ND	6.00	ND	0.60	1.08	NT
FSP-10A	26'-30'	0.52	ND	1.88	0.12	2.05	ND	NT	FSP-24B	21'-25'	<0.50	ND	3.18	ND	0.65	0.55	NT
FSP-10B	21'-25'	0.56	ND	1.68	ND	1.04	ND	NT	FSP-24C	16'-20'	<0.50	ND	3.17	ND	ND	0.78	NT
FSP-10C	16'-20'	<0.50	ND	1.26	0.09	1.87	ND	NT	FSP-24D	11'-15'	<0.50	ND	2.89	ND	ND	0.72	NT
FSP-10D	11'-15'	<0.50	ND	1.30	0.08	0.82	4.47	NT	FSP-25	14'-18'	<0.50	ND	2.23	ND	ND	ND	NT
FSP-11	14'-18'	<0.50	ND	1.78	0.16	2.69	13.09	NT	FSP-26	14'-18'	<0.50	ND	2.60	ND	ND	ND	NT
FSP-12	14'-18'	<0.50	ND	1.47	0.12	2.15	3.61	NT	FSP-27	14'-18'	<0.50	ND	2.29	ND	ND	ND	NT
FSP-13	14'-18'	<0.50	ND	0.88	ND	0.68	1.89	NT	FSP-28A	26'-30'	<0.50	ND	3.73	ND	ND	ND	NT
FSP-14A	26'-30'	DRY	DRY	DRY	DRY	DRY	DRY	DRY	FSP-28B	21'-25'	<0.50	ND	8.46	ND	ND	ND	NT
FSP-14B	21'-25'	<0.50	ND	0.71	ND	0.65	ND	NT	FSP-28C	16'-20'	<0.50	ND	4.39	ND	ND	ND	NT
FSP-14C	16'-20'	<0.50	ND	0.78	ND	0.64	0.41	NT	FSP-28D	11'-15'	<0.50	ND	2.78	ND	ND	ND	NT
FSP-14D	11'-15'	<0.50	ND	0.84	ND	0.65	0.12	NT	FSP-29	14'-18'	<0.50	ND	3.17	ND	0.63	0.39	NT
FSP-15A	26'-30'	DRY	DRY	DRY	DRY	DRY	DRY	DRY	FSP-30	14'-18'	<0.50	0.95	4.69	ND	0.67	2.83	NT
FSP-15B	21'-25'	DRY	DRY	DRY	DRY	DRY	DRY	DRY	FSP-31A	26'-30'	<0.50	ND	7.16	ND	ND	ND	NT
FSP-15C	16'-20'	<0.50	ND	0.81	ND	0.67	ND	NT	FSP-31B	21'-25'	<0.50	ND	5.00	ND	ND	ND	NT
FSP-15D	11'-15'	<0.50	ND	0.73	ND	0.64	ND	NT	FSP-31C	16'-20'	<0.50	ND	4.68	ND	ND	ND	NT
FSP-16	14'-18'	<0.50	ND	0.78	ND	0.66	1.07	NT	FSP-31D	11'-15'	<0.50	2.03	3.03	ND	ND	0.03	NT
FSP-17A	26'-30'	<0.50	ND	0.84	ND	0.68	0.76	NT									

Pamplico Highway (U.S. Highway 51)

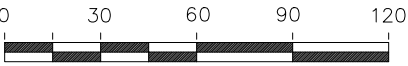
Willow Creek Road

Explanation:

- Location of Soil Test Boring/Field Screening Location
- Groundwater Field Screening Location



GRAPHIC SCALE



1IN = 60FT

ALL LOCATIONS ARE APPROXIMATE

Field Screening CoC Site Map

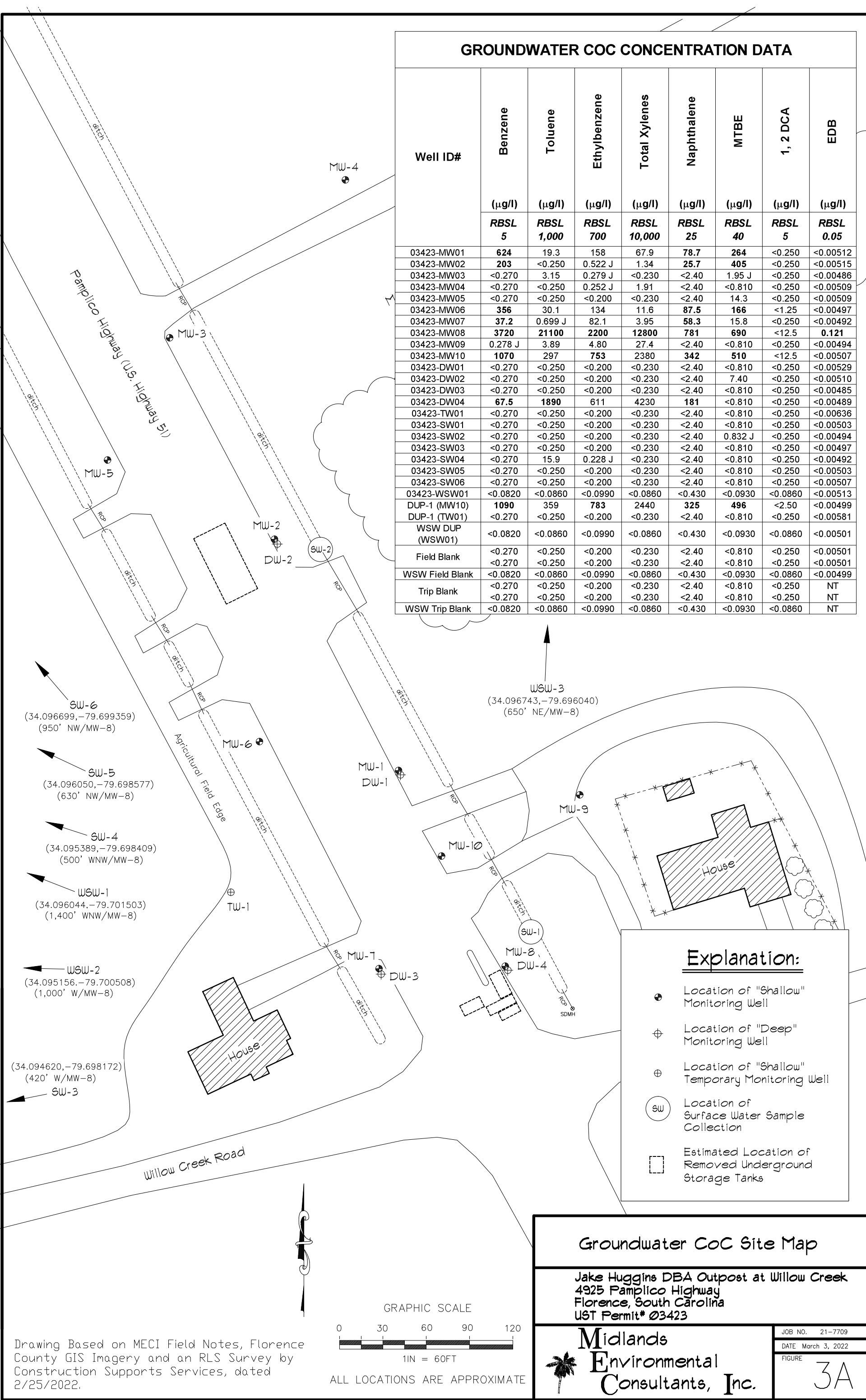
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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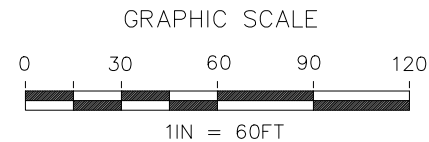
JOB NO. 21-7709
DATE March 3, 2022
FIGURE 3

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

GROUNDWATER COC CONCENTRATION DATA								
Well ID#	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1, 2 DCA	EDB
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05
03423-MW01	624	19.3	158	67.9	78.7	264	<0.250	<0.00512
03423-MW02	203	<0.250	0.522 J	1.34	25.7	405	<0.250	<0.00515
03423-MW03	<0.270	3.15	0.279 J	<0.230	<2.40	1.95 J	<0.250	<0.00486
03423-MW04	<0.270	<0.250	0.252 J	1.91	<2.40	<0.810	<0.250	<0.00509
03423-MW05	<0.270	<0.250	<0.200	<0.230	<2.40	14.3	<0.250	<0.00509
03423-MW06	356	30.1	134	11.6	87.5	166	<1.25	<0.00497
03423-MW07	37.2	0.699 J	82.1	3.95	58.3	15.8	<0.250	<0.00492
03423-MW08	3720	21100	2200	12800	781	690	<12.5	0.121
03423-MW09	0.278 J	3.89	4.80	27.4	<2.40	<0.810	<0.250	<0.00494
03423-MW10	1070	297	753	2380	342	510	<12.5	<0.00507
03423-DW01	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00529
03423-DW02	<0.270	<0.250	<0.200	<0.230	<2.40	7.40	<0.250	<0.00510
03423-DW03	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00485
03423-DW04	67.5	1890	611	4230	181	<0.810	<0.250	<0.00489
03423-TW01	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00636
03423-SW01	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503
03423-SW02	<0.270	<0.250	<0.200	<0.230	<2.40	0.832 J	<0.250	<0.00494
03423-SW03	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00497
03423-SW04	<0.270	15.9	0.228 J	<0.230	<2.40	<0.810	<0.250	<0.00492
03423-SW05	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503
03423-SW06	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00507
03423-WSW01	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00513
DUP-1 (MW10)	1090	359	783	2440	325	496	<2.50	<0.00499
DUP-1 (TW01)	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00581
WSW DUP (WSW01)	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00501
Field Blank	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501
WSW Field Blank	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00499
Trip Blank	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT
WSW Trip Blank	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	NT



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

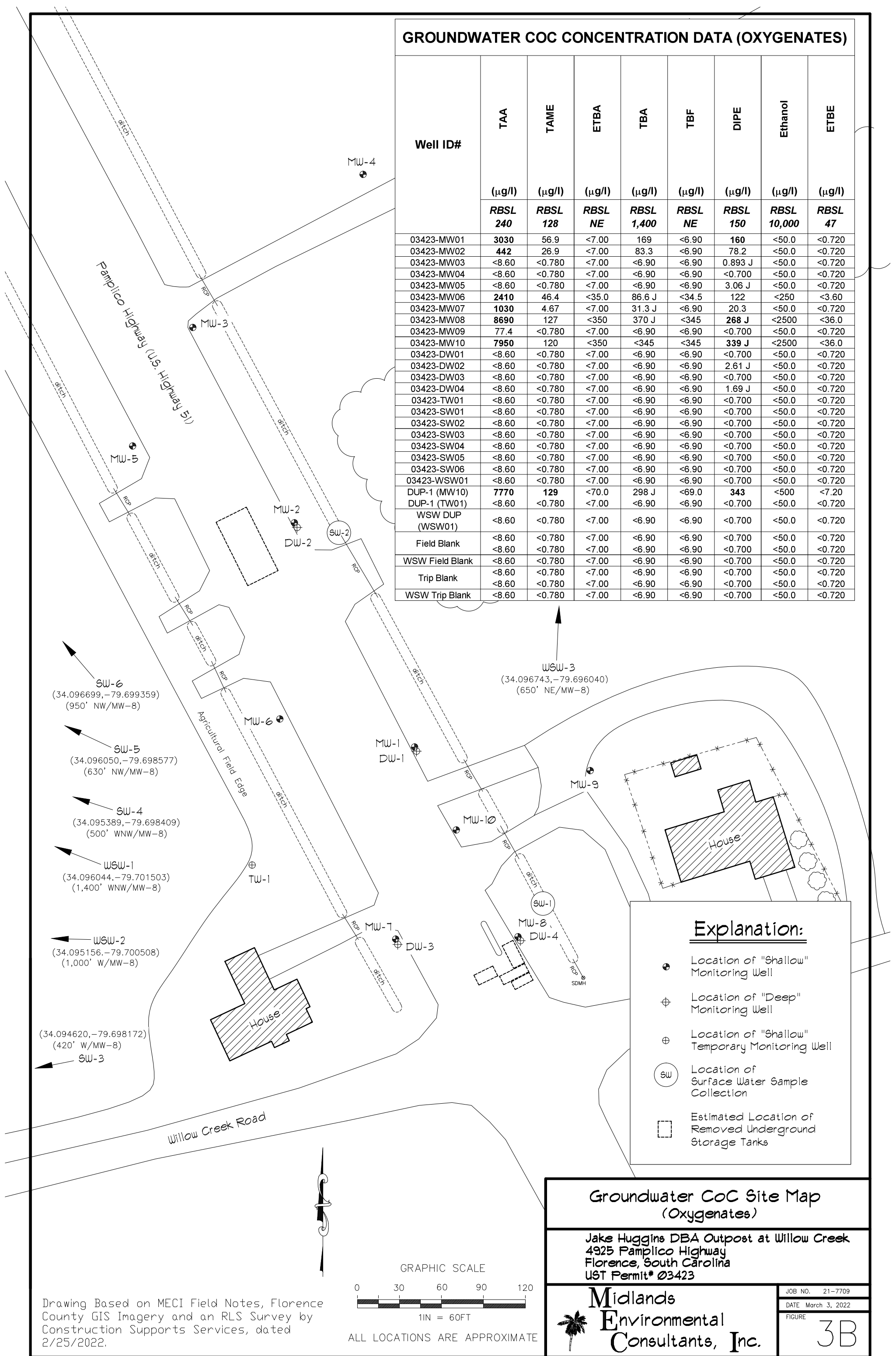
Groundwater CoC Site Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamlico Highway
Florence, South Carolina
UST Permit# 03423

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JOB NO. 21-7709
DATE March 3, 2022
FIGURE 3A

Well ID#	TAA	TAME	ETBA	TBA	TBF	DIPE	Ethanol	ETBE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	<i>RBSL 240</i>	<i>RBSL 128</i>	<i>RBSL NE</i>	<i>RBSL 1,400</i>	<i>RBSL NE</i>	<i>RBSL 150</i>	<i>RBSL 10,000</i>	<i>RBSL 47</i>
03423-MW01	3030	56.9	<7.00	169	<6.90	160	<50.0	<0.720
03423-MW02	442	26.9	<7.00	83.3	<6.90	78.2	<50.0	<0.720
03423-MW03	<8.60	<0.780	<7.00	<6.90	<6.90	0.893 J	<50.0	<0.720
03423-MW04	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-MW05	<8.60	<0.780	<7.00	<6.90	<6.90	3.06 J	<50.0	<0.720
03423-MW06	2410	46.4	<35.0	86.6 J	<34.5	122	<250	<3.60
03423-MW07	1030	4.67	<7.00	31.3 J	<6.90	20.3	<50.0	<0.720
03423-MW08	8690	127	<350	370 J	<345	268 J	<2500	<36.0
03423-MW09	77.4	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-MW10	7950	120	<350	<345	<345	339 J	<2500	<36.0
03423-DW01	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-DW02	<8.60	<0.780	<7.00	<6.90	<6.90	2.61 J	<50.0	<0.720
03423-DW03	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-DW04	<8.60	<0.780	<7.00	<6.90	<6.90	1.69 J	<50.0	<0.720
03423-TW01	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW01	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW02	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW03	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW04	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW05	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW06	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-WSW01	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (MW10)	7770	129	<70.0	298 J	<69.0	343	<500	<7.20
DUP-1 (TW01)	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
WSW DUP (WSW01)	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
Field Blank	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
WSW Field Blank	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
Trip Blank	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
WSW Trip Blank	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

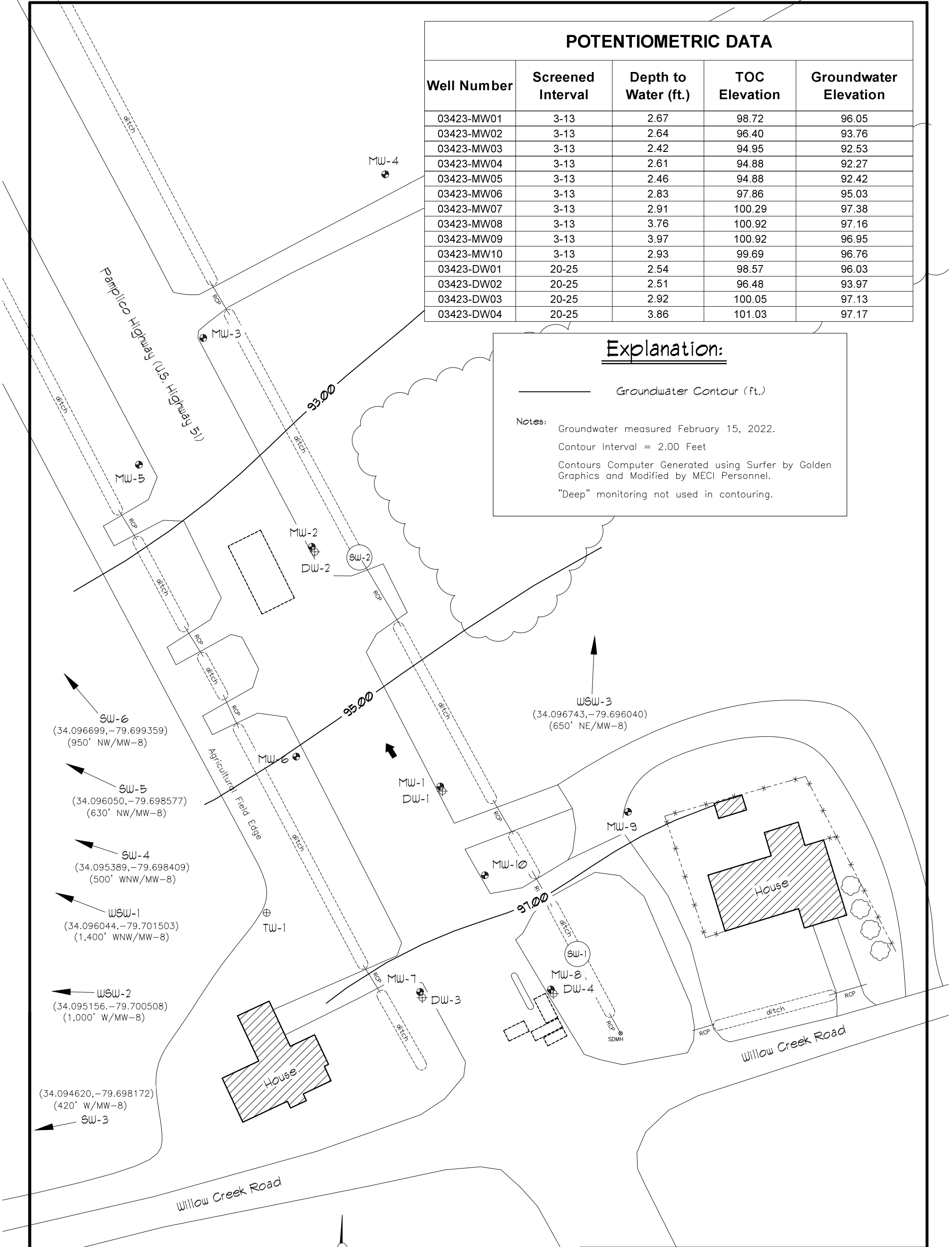


POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	2.67	98.72	96.05
03423-MW02	3-13	2.64	96.40	93.76
03423-MW03	3-13	2.42	94.95	92.53
03423-MW04	3-13	2.61	94.88	92.27
03423-MW05	3-13	2.46	94.88	92.42
03423-MW06	3-13	2.83	97.86	95.03
03423-MW07	3-13	2.91	100.29	97.38
03423-MW08	3-13	3.76	100.92	97.16
03423-MW09	3-13	3.97	100.92	96.95
03423-MW10	3-13	2.93	99.69	96.76
03423-DW01	20-25	2.54	98.57	96.03
03423-DW02	20-25	2.51	96.48	93.97
03423-DW03	20-25	2.92	100.05	97.13
03423-DW04	20-25	3.86	101.03	97.17

Explanation:

Groundwater Contour (ft.)

Notes: Groundwater measured February 15, 2022.
Contour Interval = 2.00 Feet
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



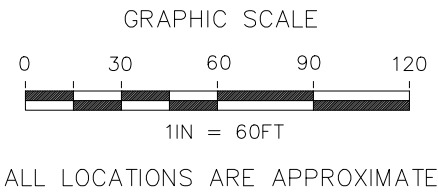
Potentiometric Data Site Map
(Groundwater Contour/"Shallow" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE 4

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

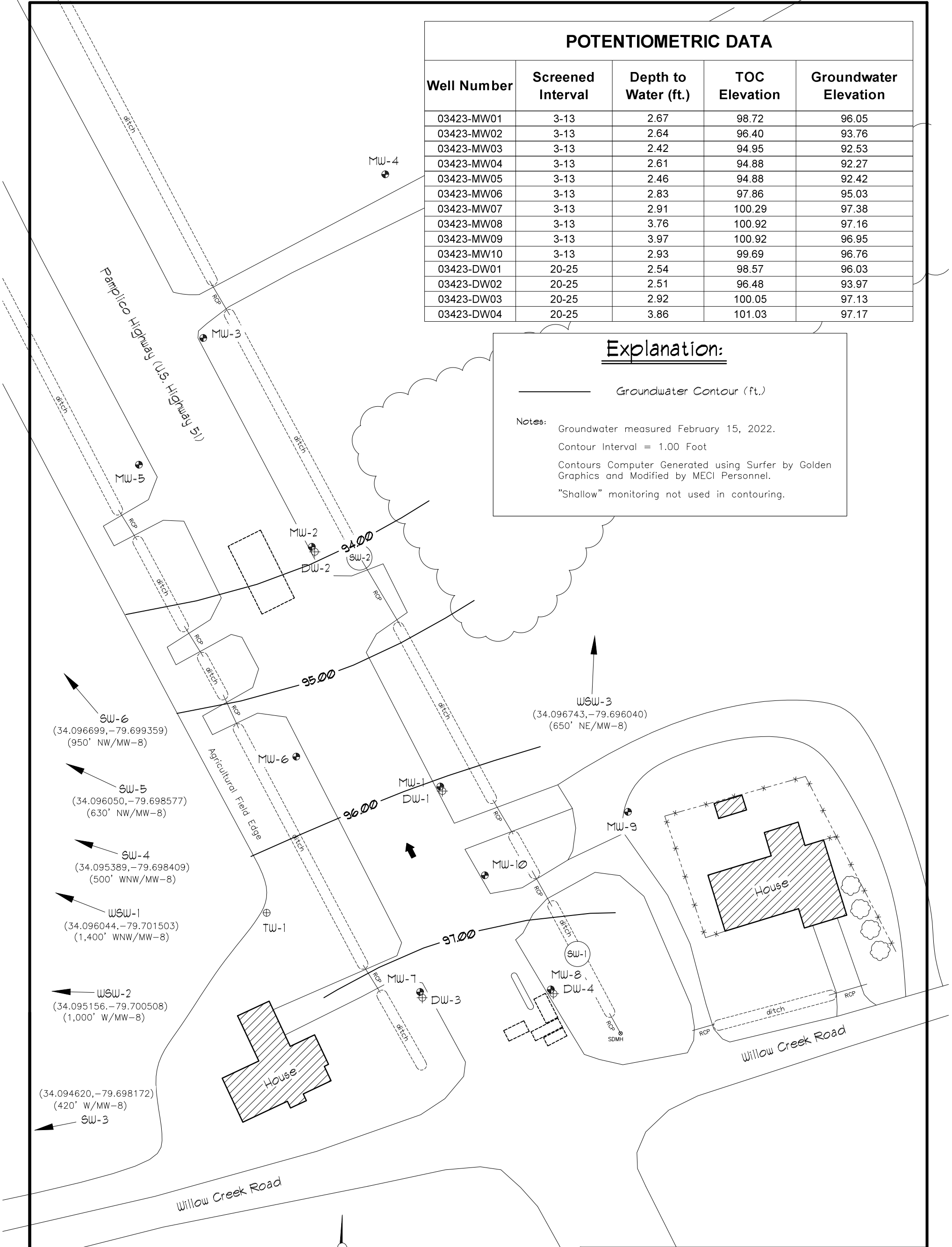


POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	2.67	98.72	96.05
03423-MW02	3-13	2.64	96.40	93.76
03423-MW03	3-13	2.42	94.95	92.53
03423-MW04	3-13	2.61	94.88	92.27
03423-MW05	3-13	2.46	94.88	92.42
03423-MW06	3-13	2.83	97.86	95.03
03423-MW07	3-13	2.91	100.29	97.38
03423-MW08	3-13	3.76	100.92	97.16
03423-MW09	3-13	3.97	100.92	96.95
03423-MW10	3-13	2.93	99.69	96.76
03423-DW01	20-25	2.54	98.57	96.03
03423-DW02	20-25	2.51	96.48	93.97
03423-DW03	20-25	2.92	100.05	97.13
03423-DW04	20-25	3.86	101.03	97.17

Explanation:

Groundwater Contour (ft.)

Notes: Groundwater measured February 15, 2022.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Shallow" monitoring not used in contouring.



Potentiometric Data Site Map
(Groundwater Contour/"Deep" Zone)

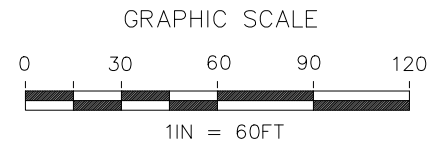
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE

4A

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Explanation:



Geologic Cross Section
(Refer to Figures 5A & 5B)

MW-4

Mobile Home Park

Wooded

Pamplico Highway (U.S. Highway 51)

MW-3

MW-5

MW-2

DW-2

SW-2

RCP

Agricultural Field Edge

MW-6

MW-1

DW-1

WSW-3

(34.096743, -79.696040)
(650' NE/MW-8)

B'

MW-9

House

SW-1

MW-8

DW-4

RCP

SDMH

Willow Creek Road

House

MW-7

DW-3

RCP

B

SW-4

(34.095389, -79.698409)
(500' WNW/MW-8)

WSW-1

(34.096044, -79.701503)
(1,400' WNW/MW-8)

WSW-2

(34.095156, -79.700508)
(1,000' W/MW-8)

SW-3

(34.094620, -79.698172)
(420' W/MW-8)

Willow Creek Road

Geologic Cross Section Reference Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

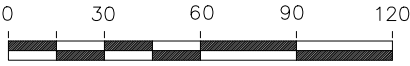
JOB NO. 21-7709

DATE March 3, 2022

FIGURE

5

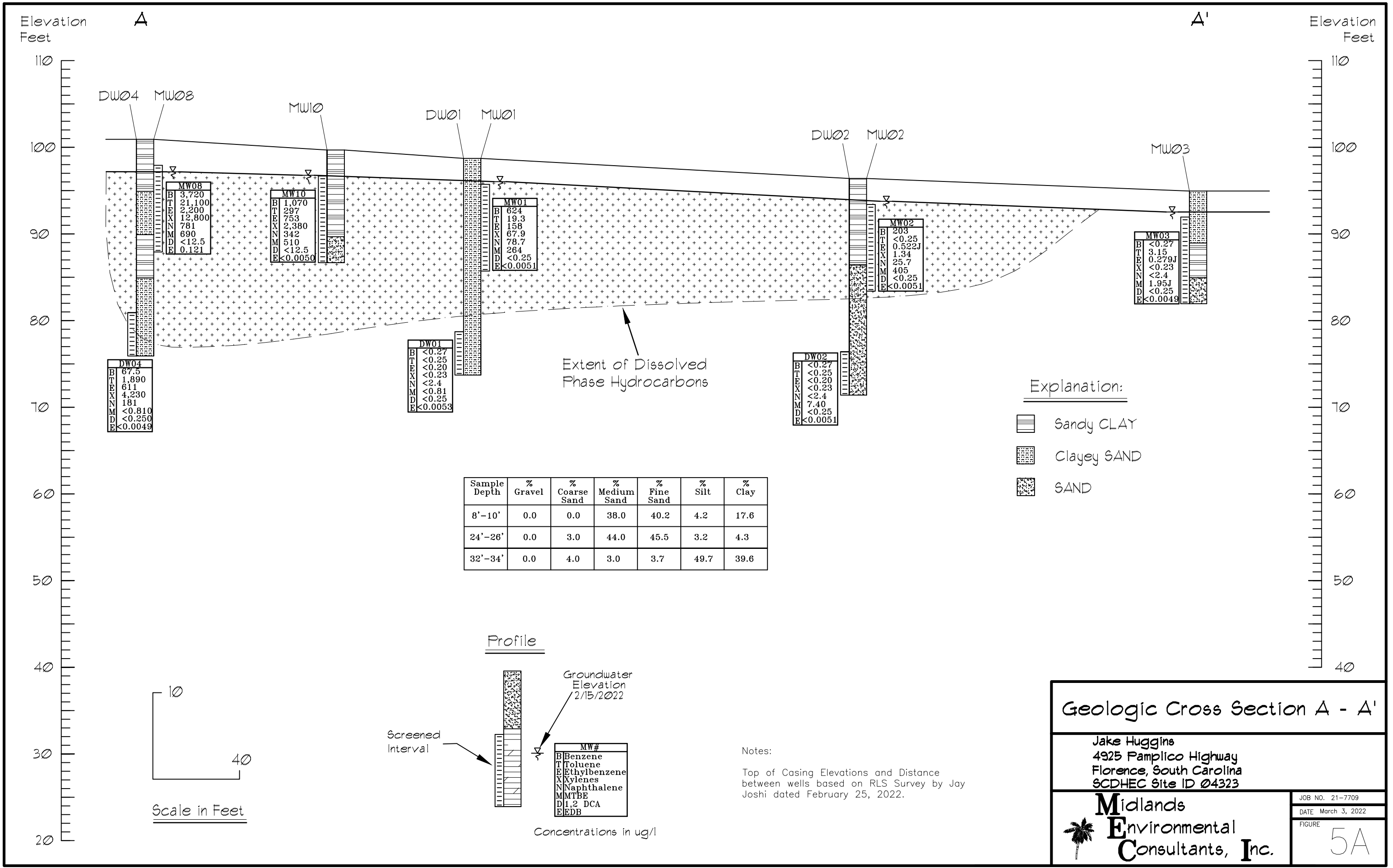
GRAPHIC SCALE

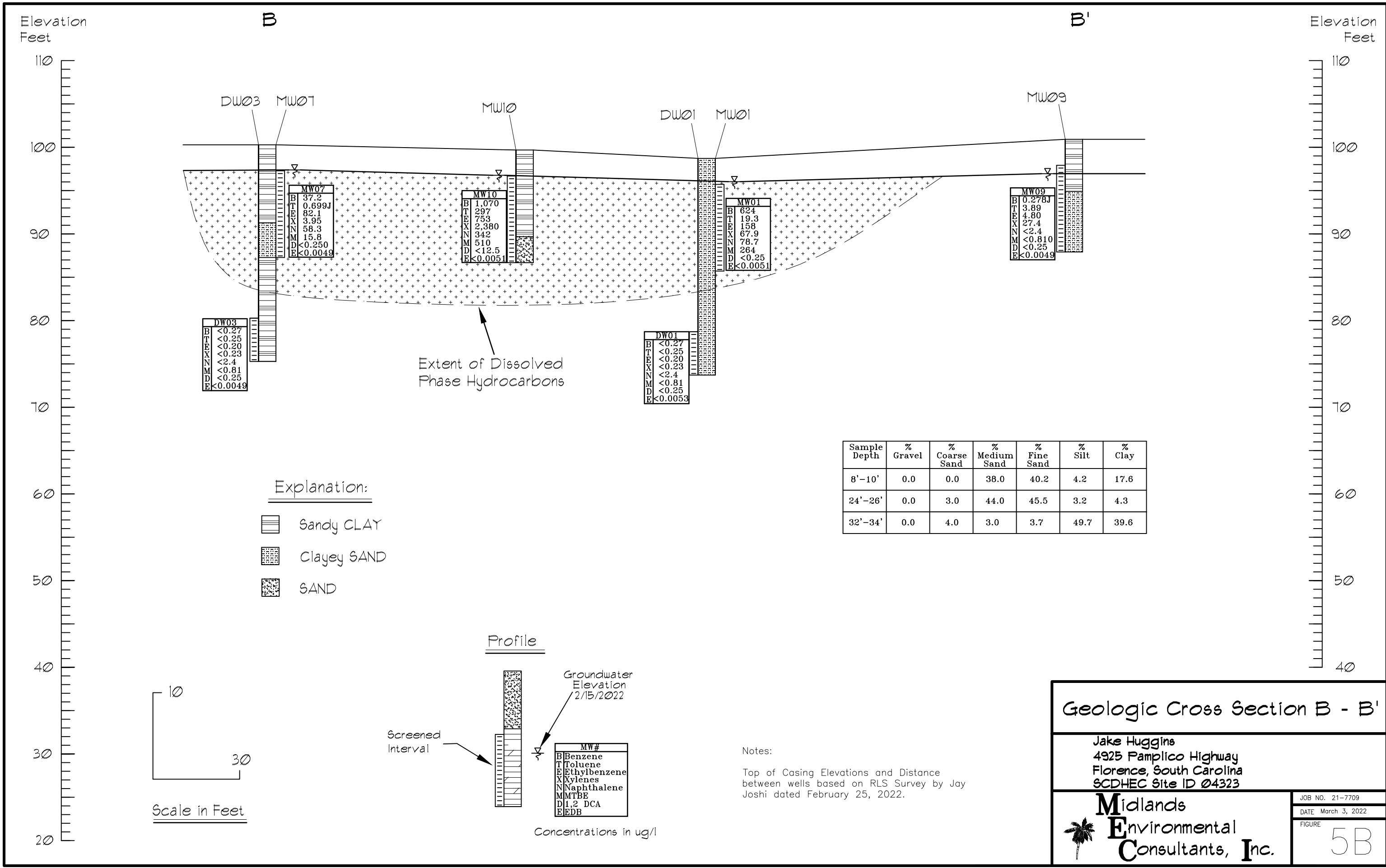


1IN = 60FT

ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Florence
County GIS Imagery and an RLS Survey by
Construction Supports Services, dated
2/25/2022.

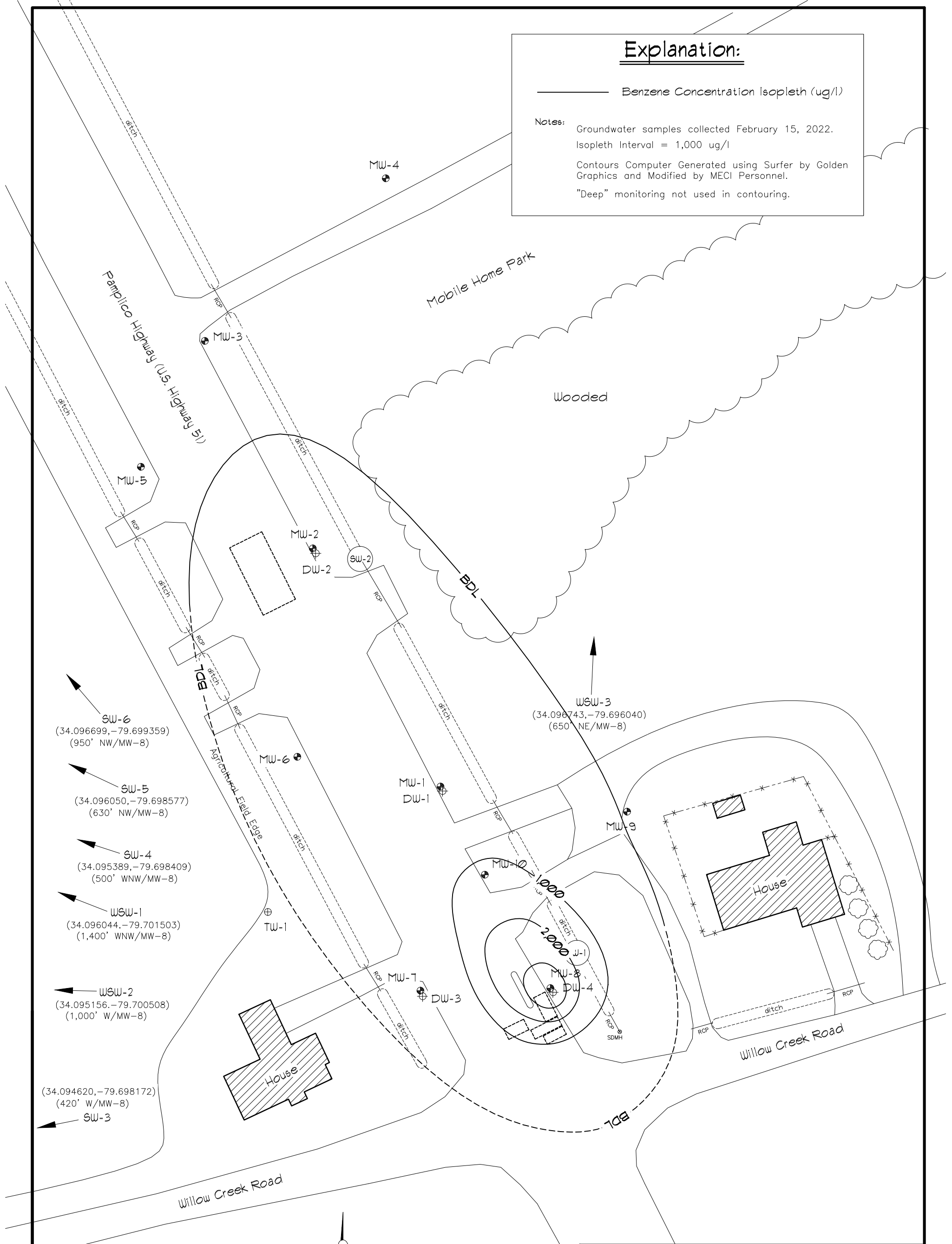




Explanation:

Benzene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 1,000 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Benzene Isopleth - "Shallow" Zone

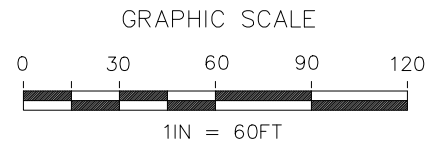
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

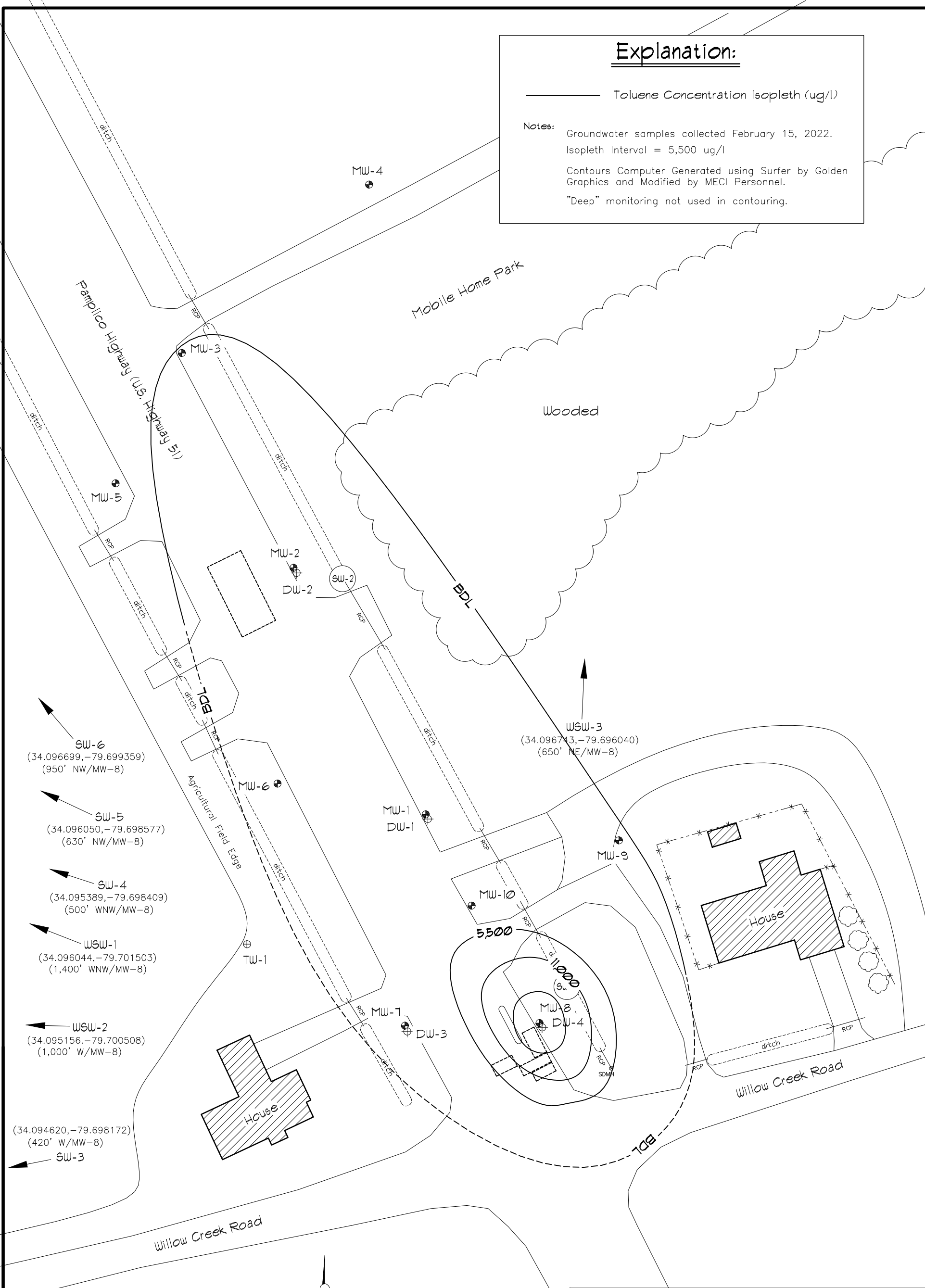


ALL LOCATIONS ARE APPROXIMATE

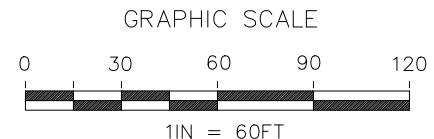
Explanation:

Toluene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 5,500 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Toluene Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
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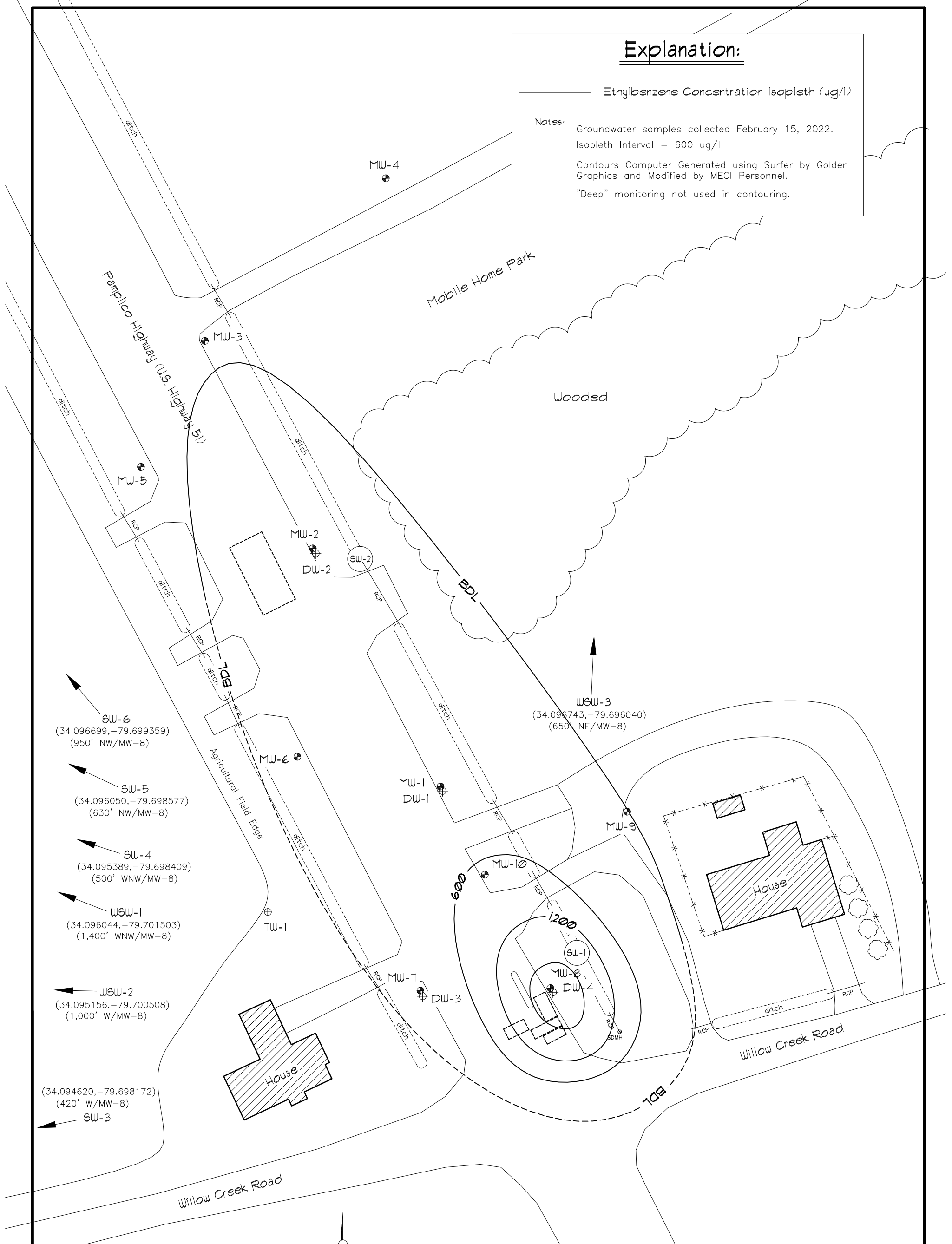
JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6A

Explanation:

Ethylbenzene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 600 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Ethylbenzene Isopleth - "Shallow" Zone

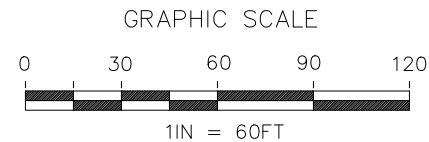
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6B

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

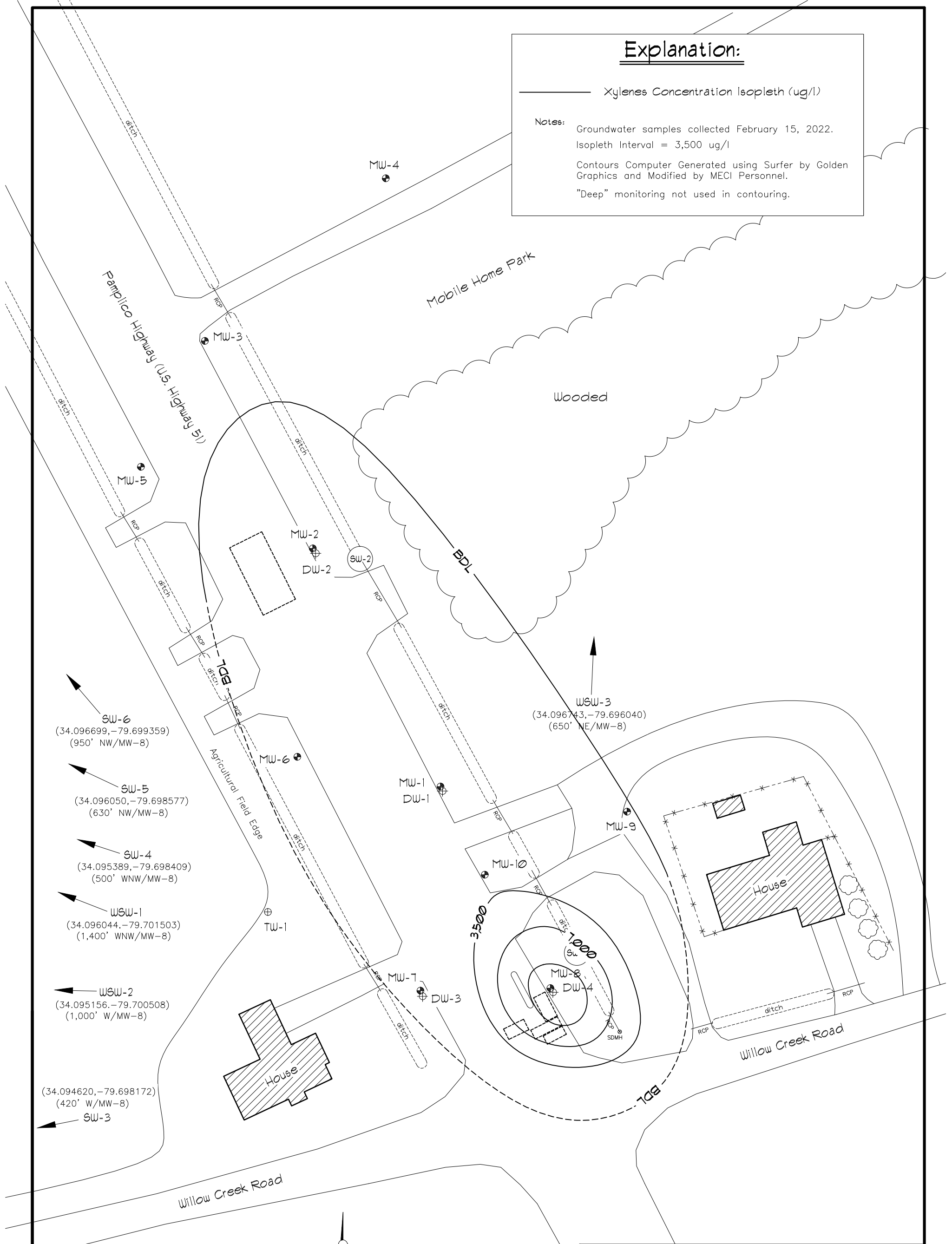


ALL LOCATIONS ARE APPROXIMATE

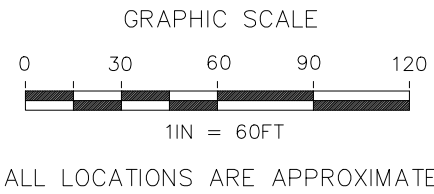
Explanation:

Xylenes Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 3,500 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

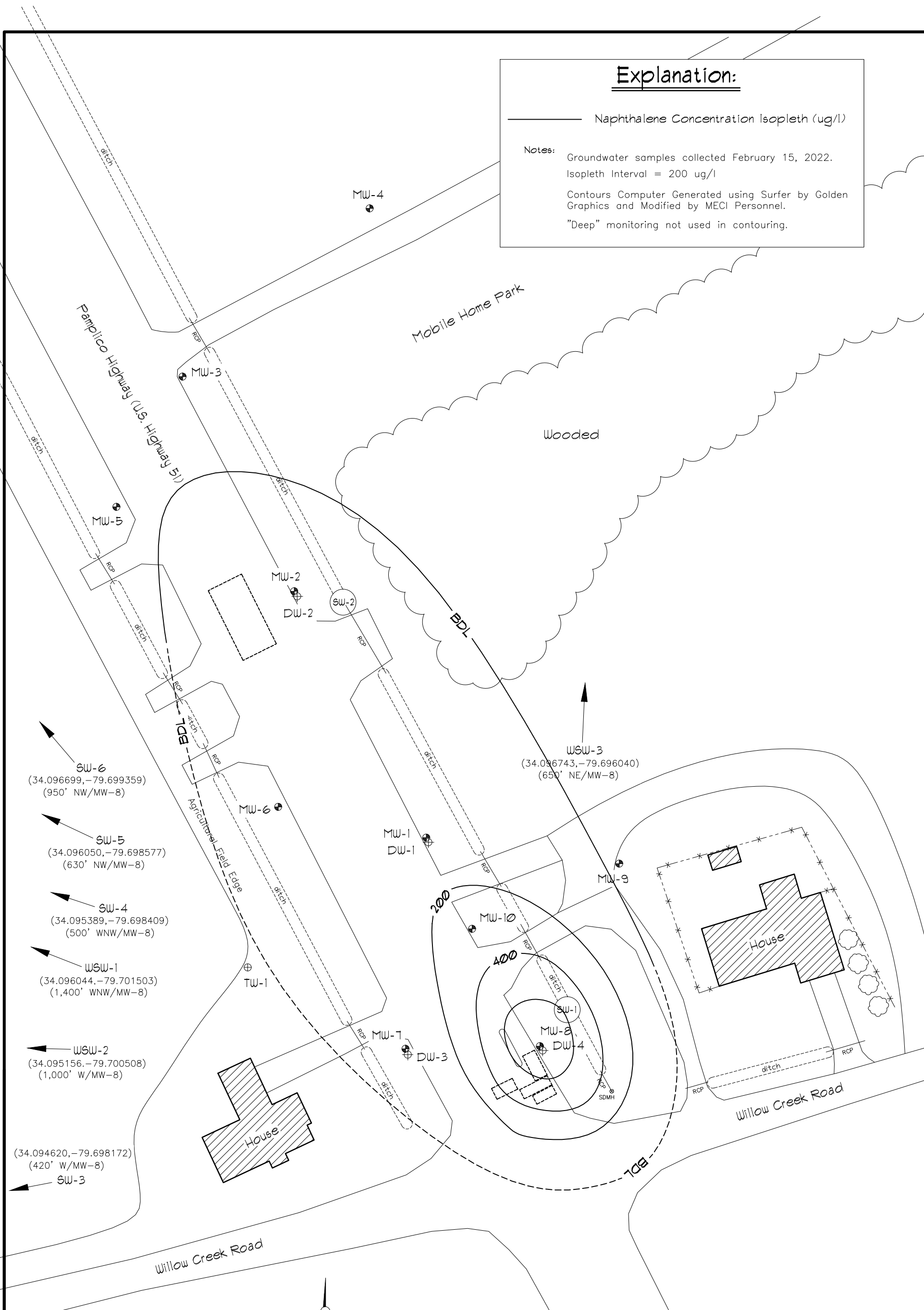


Total Xylenes Isopleth - "Shallow" Zone	
Jake Huggins DBA Outpost at Willow Creek 4925 Pamplico Highway Florence, South Carolina UST Permit# 03423	
 Midlands Environmental Consultants, Inc.	JOB NO. 21-7709
	DATE March 3, 2022
	FIGURE 6C

Explanation:

Naphthalene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Naphthalene Isopleth - "Shallow" Zone

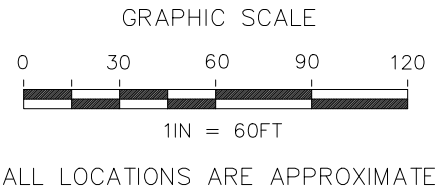
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6D

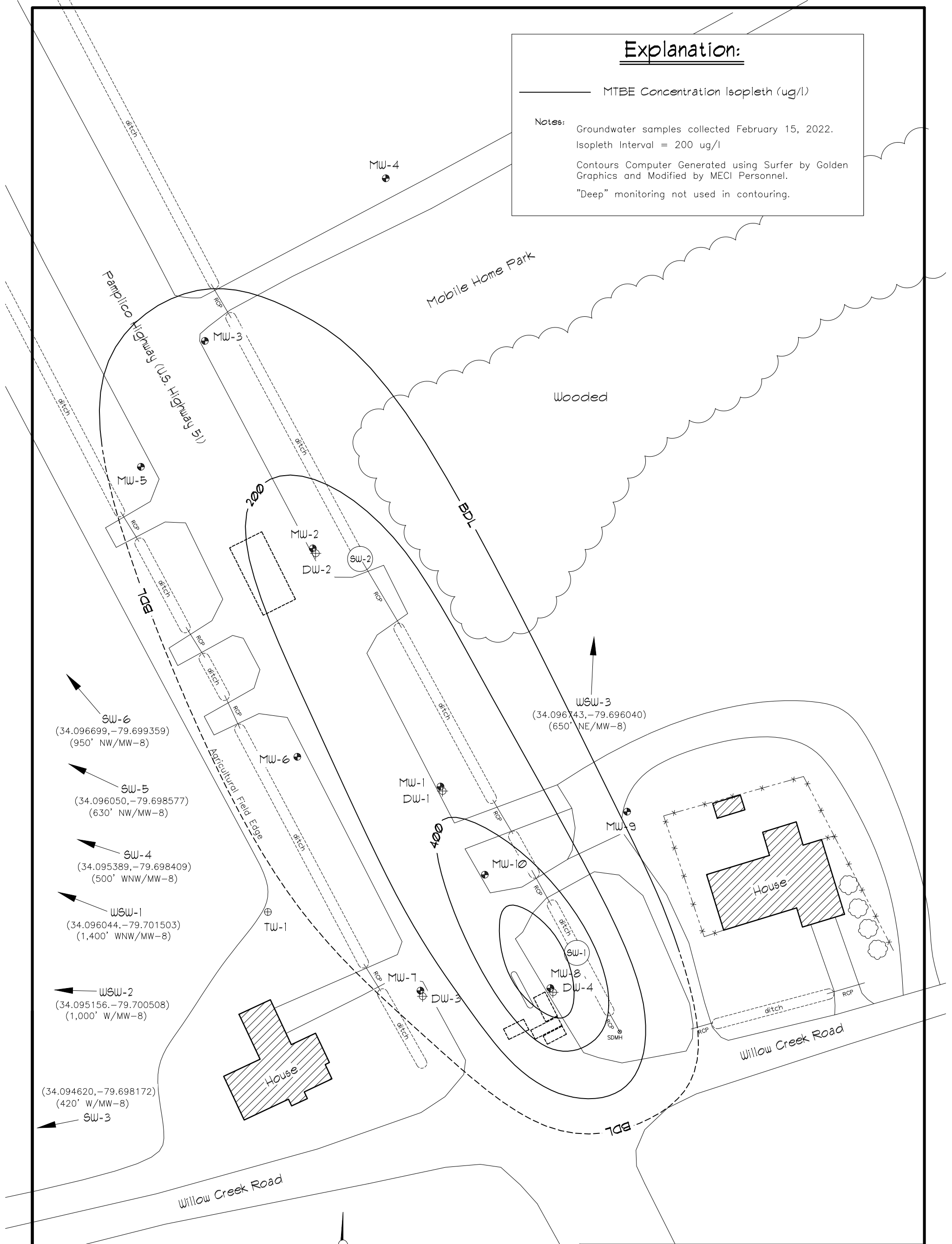
Drawing Based on MECI Field Notes, Florence
County GIS Imagery and an RLS Survey by
Construction Supports Services, dated
2/25/2022.



Explanation:

MTBE Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



MTBE Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
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JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6E

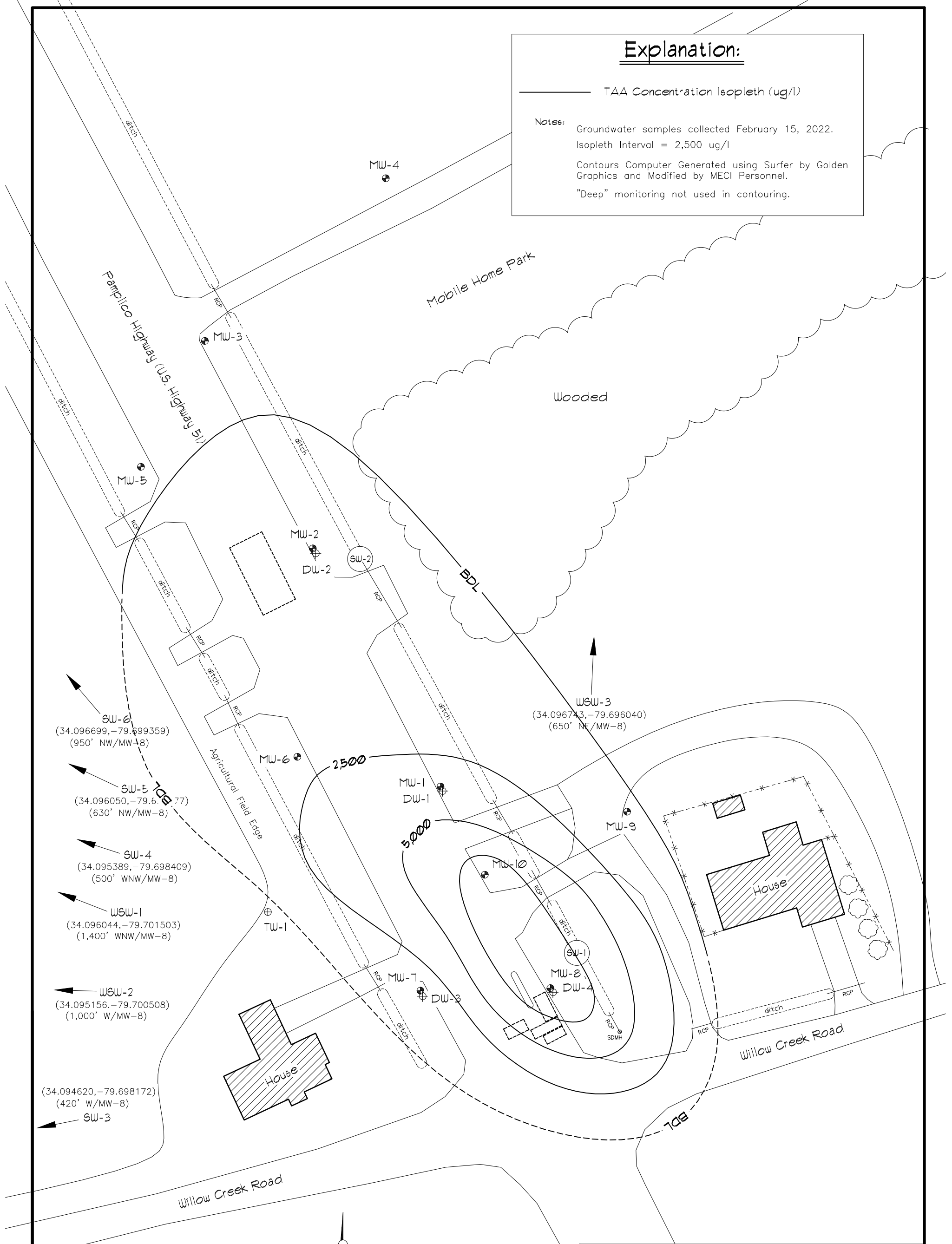
Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.

GRAPHIC SCALE
0 30 60 90 120
1IN = 60FT
ALL LOCATIONS ARE APPROXIMATE

Explanation:

TAA Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 2,500 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



TAA Isopleth - "Shallow" Zone

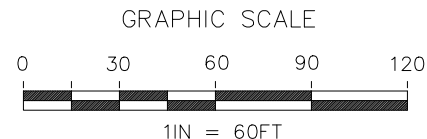
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6F

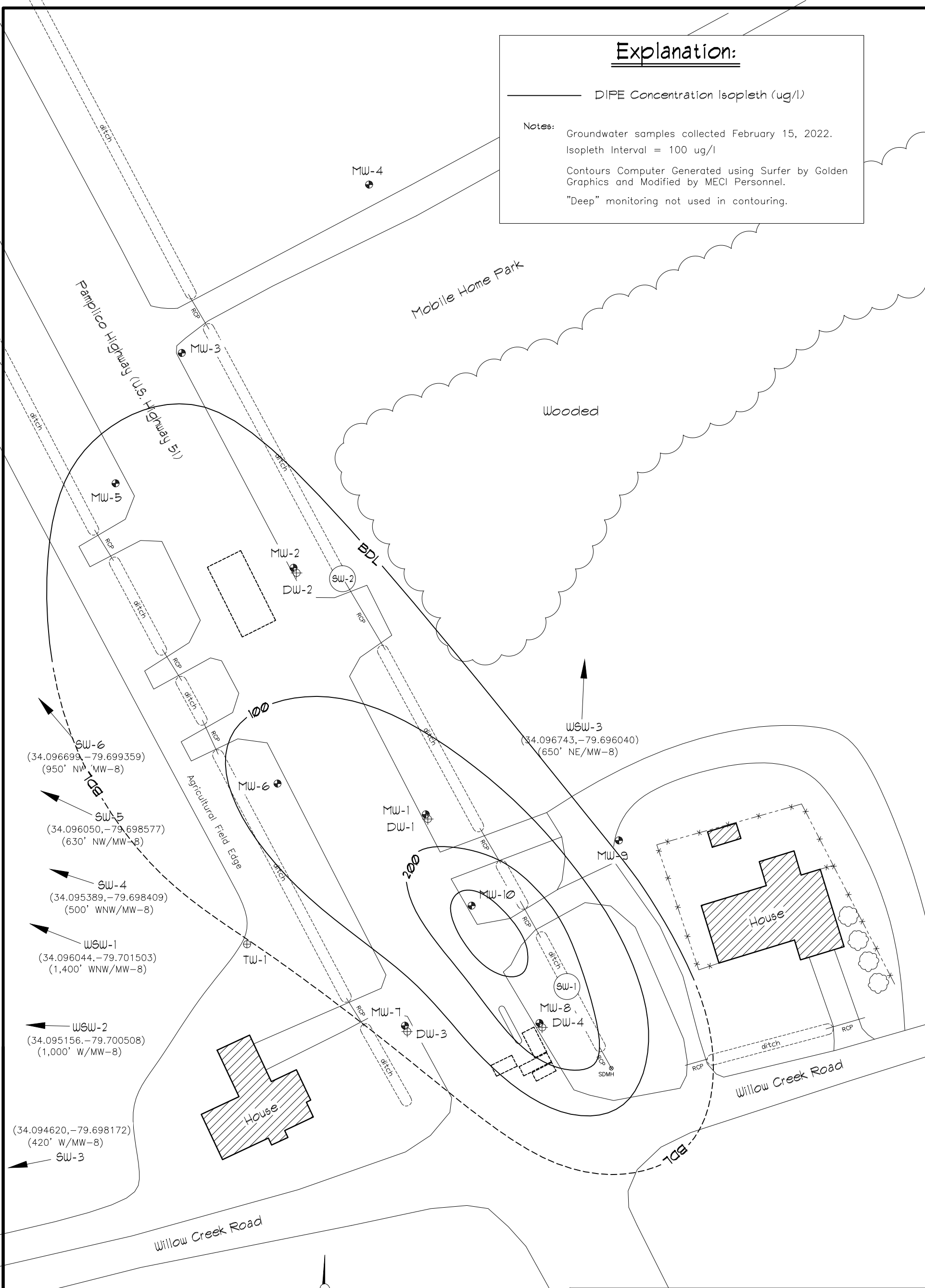
Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



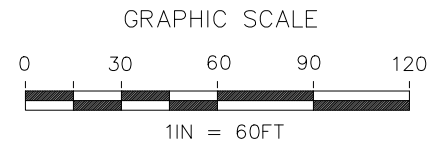
Explanation:

DIPE Concentration Isopleth (ug/l)

Notes: Groundwater samples collected February 15, 2022.
Isopleth Interval = 100 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



DIPE Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709
DATE March 3, 2022
FIGURE

6G

APPENDIX A:

SITE SURVEY



MAGNETIC NORTH

BENCHMARK IS A MAGNAIL
ASSUMED ELEV.= 100.00'

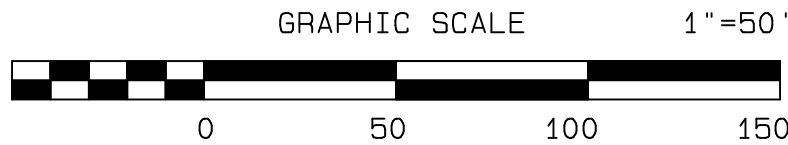
SITE ID# 03423 MONITOR WELLS (SURVEYED 02-21-2022)				
WELL	SCSP NORTH	SCSP EAST	RIM ELEV.	TOC ELEV.
MW-1	825518.0	2394385.4	98.96	98.72
MW-2	825678.3	2394299.6	96.59	96.40
MW-3	825817.8	2394226.9	95.21	94.95
MW-4	825927.3	2394348.7	95.09	94.88
MW-5	825733.1	2394183.9	95.20	94.88
MW-6	825538.0	2394289.2	98.17	97.86
MW-7	825380.7	2394371.9	100.56	100.29
MW-8	825382.4	2394459.3	101.15	100.92
MW-9	825501.1	2394510.9	101.16	100.92
MW-10	825458.7	2394415.2	99.95	99.69
DW-1	825515.0	2394386.9	98.90	98.57
DW-2	825674.9	2394301.5	96.71	96.48
DW-3	825376.9	2394373.4	100.47	100.05
DW-4	825379.6	2394461.1	101.30	101.03

LEGEND AND ABBREVIATIONS:	
	MW = MONITORING WELL
	BM = BENCHMARK
	TPED = TELEPHONE PEDESTAL
	SDMH = STORM DRAIN MAN HOLE
	WV = WATER VALVE
	FH = FIRE HYDRANT
	PP = POWER POLE
	LP = LIGHT POLE
	RCP = REINFORCED CONCRETE PIPE
	E = OVERHEAD POWER LINE
	T = UNDERGROUND TELEPHONE LINE
	W = WATER LINE
	W = WOOD LINE
	X = FENCE LINE
	RIM = RIM OF WELL STRUCTURE
	TOC = TOP OF CASING
	SCSP = SOUTH CAROLINA STATE PLANE

NOTE:
I HEREBY CERTIFY THAT THE
FIELD WORK, CALCULATIONS,
AND DRAFTING WERE DONE
UNDER MY DIRECT SUPERVISION.

NOTE:
NOT FOR THE PURPOSE
OF RECORDATION AT COUNTY,
COURTHOUSE OR THE CONVEYANCE
OF PROPERTY.

THIS PARCEL MAY BE SUBJECT
TO EASEMENT, AND/OR
RIGHT-OF-WAYS NOT SHOWN.
FINAL RESULTS CONCLUSIVE
OF TITLE SEARCH



COMPREHENSIVE SITE SKETCH OF
JAKE HUGGINS OUTPOST

4925 PAMPLICO HIGHWAY
FLORENCE, FLORENCE COUNTY, SC
SCDHEC SITE ID #03423
PREPARED FOR

MIDLANDS ENVIRONMENTAL CONSULTANTS, INC.



Jay S. Joshi

JAY S. JOSHI PLS # 14811

P.O. BOX 90408, COLUMBIA, SC, 29290

803-776-9909

DATE: FEBRUARY 25, 2022 JOB #022122N

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

2022-01-11 14:05:28Z

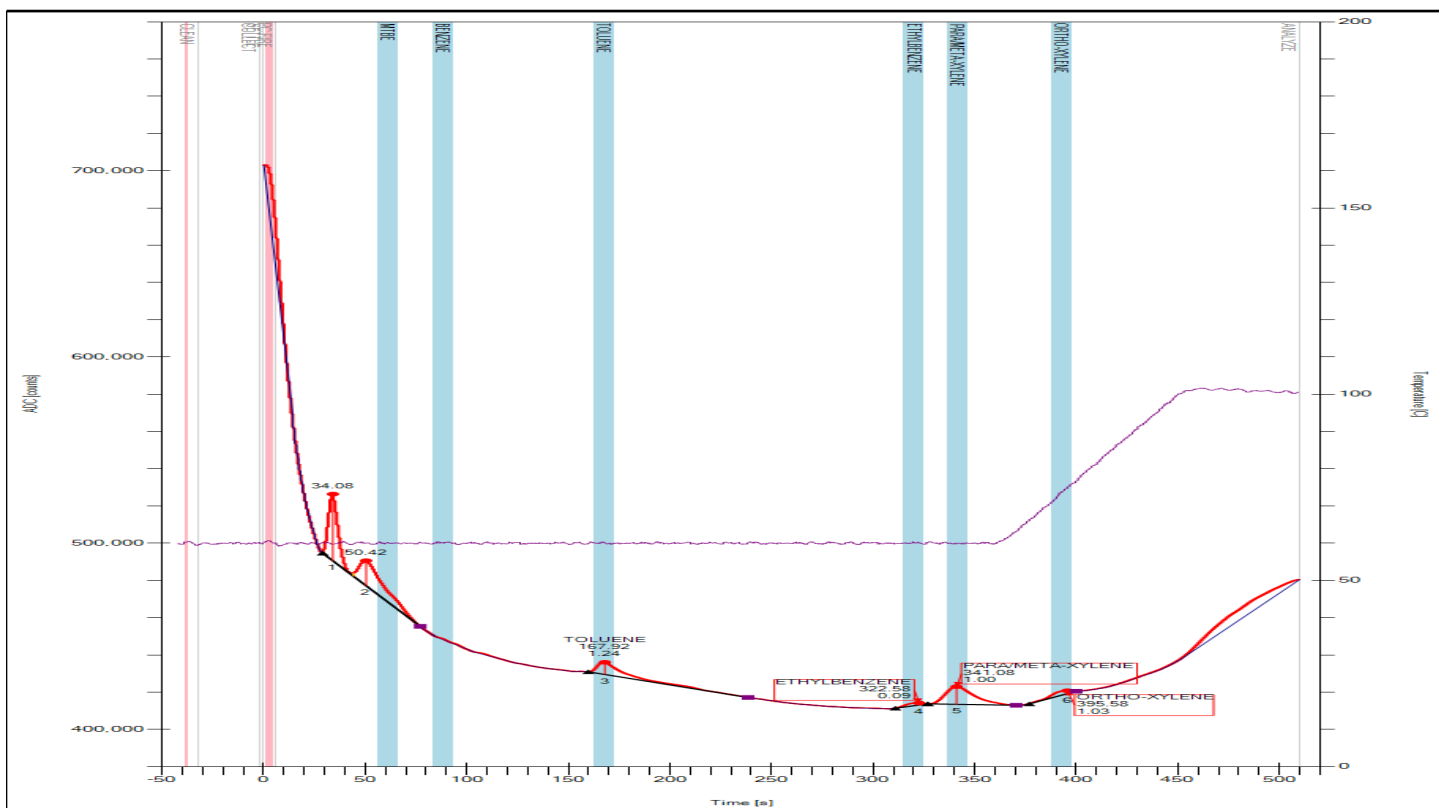
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 40%

Dilution = 1.0

FSP-1A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.08	35887	202193		
2		50.42	13481	204875		
3	TOLUENE	167.92	6547	108360	1.24	1.24
4	ETHYLBENZENE	322.58	1063	12095	0.09	0.09
5	PARAMETA-XYLENE	341.08	9508	157351	1.00	1
6	ORTHO-XYLENE	395.58	1573	21415	1.03	1.03



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1405_LOG_894.xml

2022-01-11 14:18:24Z

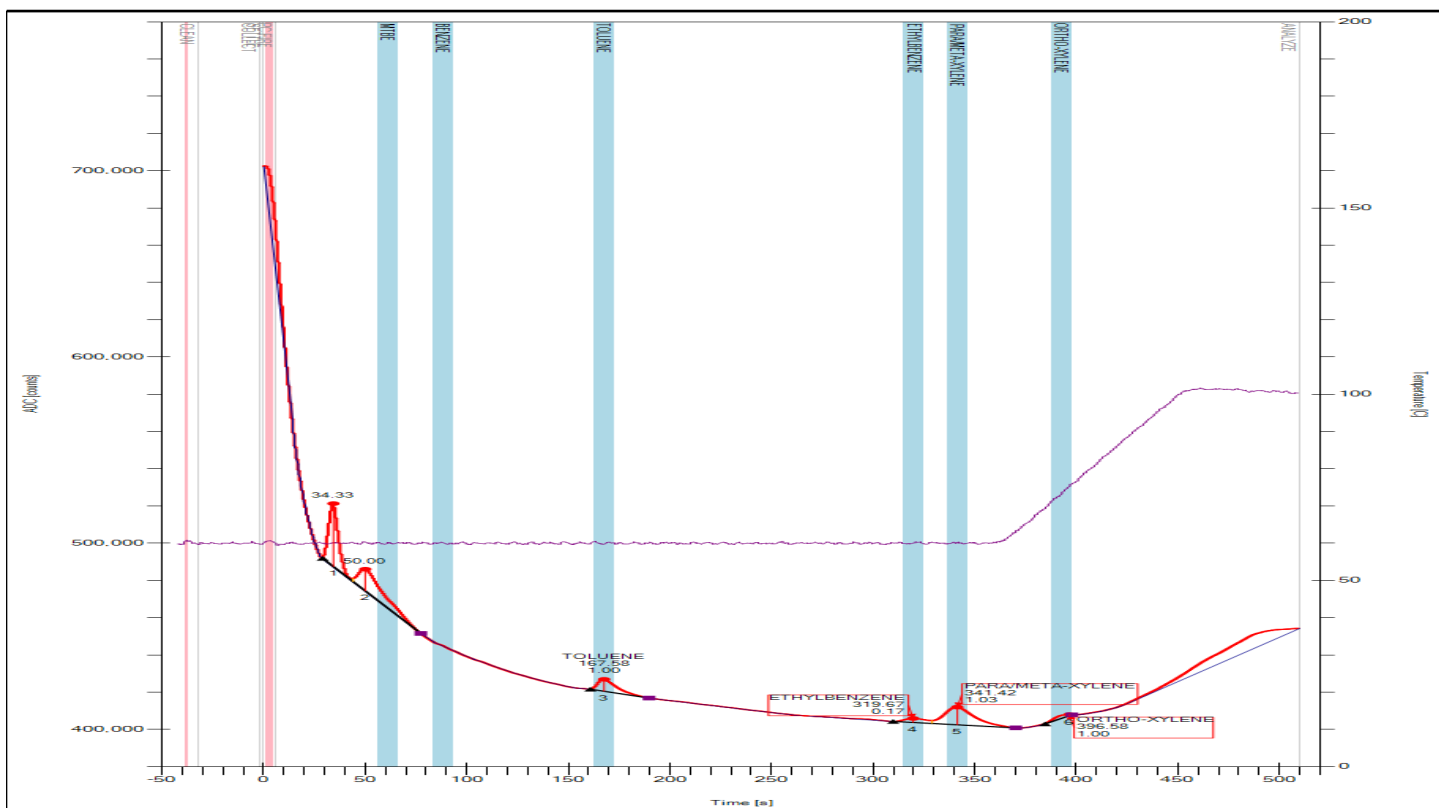
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 40%

Dilution = 1.0

FSP-1B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.33	33860	192483		
2		50	11675	179446		
3	TOLUENE	167.58	6426	72043	1.00	1
4	ETHYLBENZENE	319.67	2173	27763	0.17	0.17
5	PARA/META-XYLENE	341.42	9501	165453	1.03	1.03
6	ORTHO-XYLENE	396.58	597	11788	1.00	1



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1418_LOG_895.xml

2022-01-11 14:30:23Z

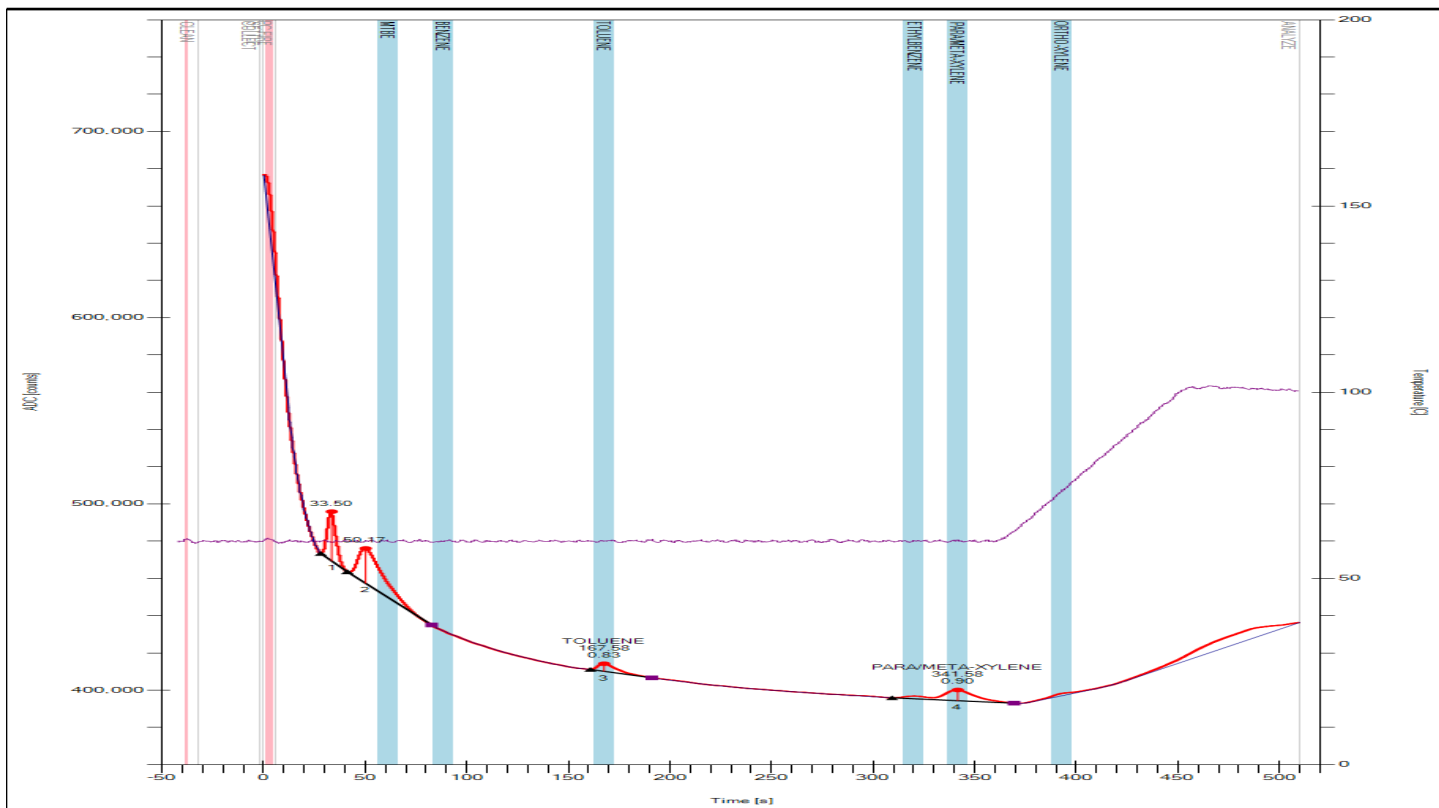
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 40%

Dilution = 1.0

FSP-1C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.5	26557	136282		
2		50.17	18747	280320		
3	TOLUENE	167.58	4096	47437	0.83	0.83
4	PARA/META-XYLENE	341.58	5770	121189	0.90	0.9



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2022-01-11 14:42:56Z

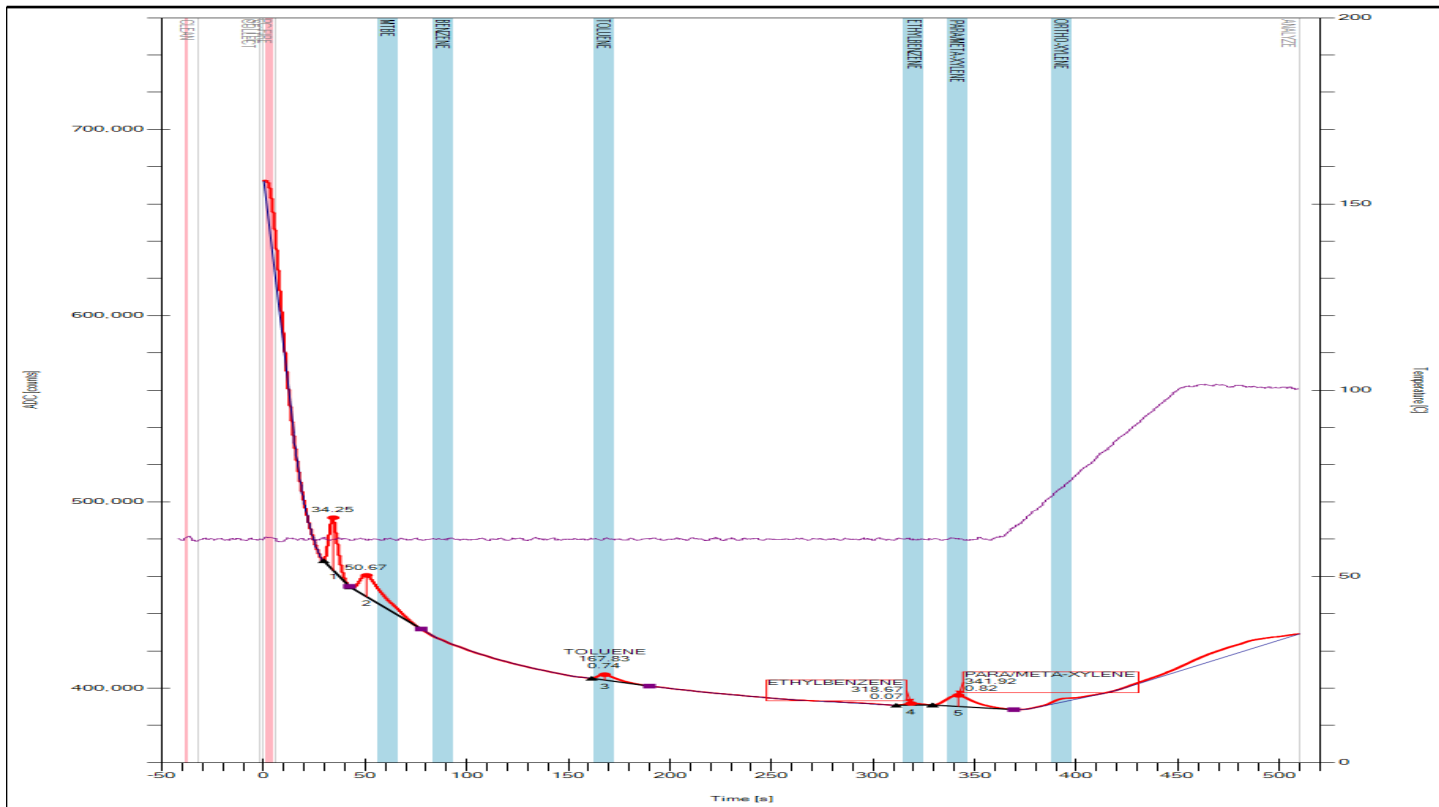
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Pump=45%, 40%

Dilution = 1.0

FSP-1D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.25	28294	147273		
2		50.67	11481	170442		
3	TOLUENE	167.83	2899	32548	0.74	0.74
4	ETHYLBENZENE	318.67	886	8485	0.07	0.07
5	PARA/META-XYLENE	341.92	5973	94639	0.82	0.82



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1442_LOG_897.xml

2022-01-11 12:12:05Z

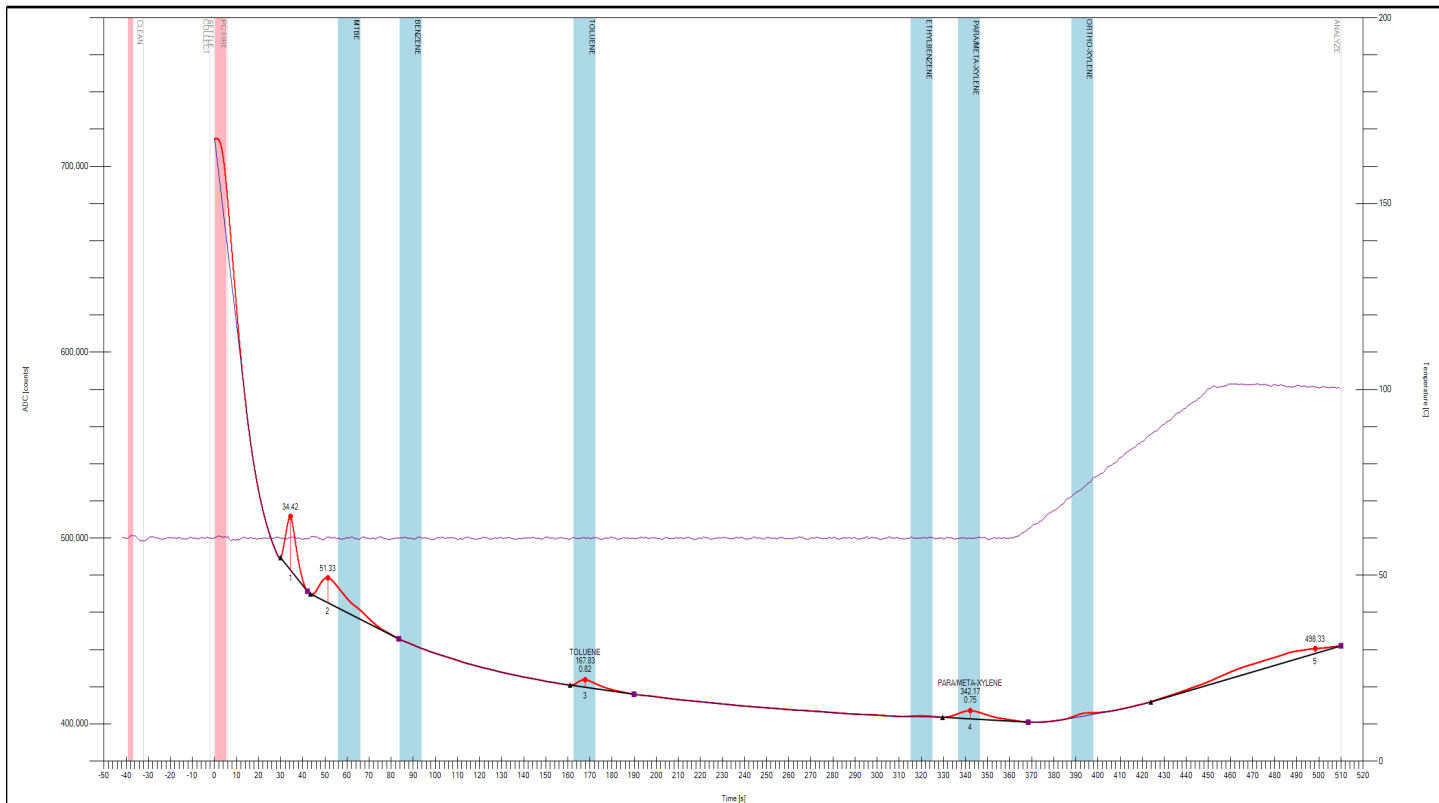
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 39%

Dilution = 1.0

FSP-2

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.42	28904	157956		
2		51.33	13420	213017		
3	TOLUENE	167.83	4051	45962	0.82	0.82
4	PARA/META-XYLENE	342.17	4431	72300	0.75	0.75
5		498.33	2627	211565		



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1212_LOG_890.xml

2022-01-11 11:43:35Z

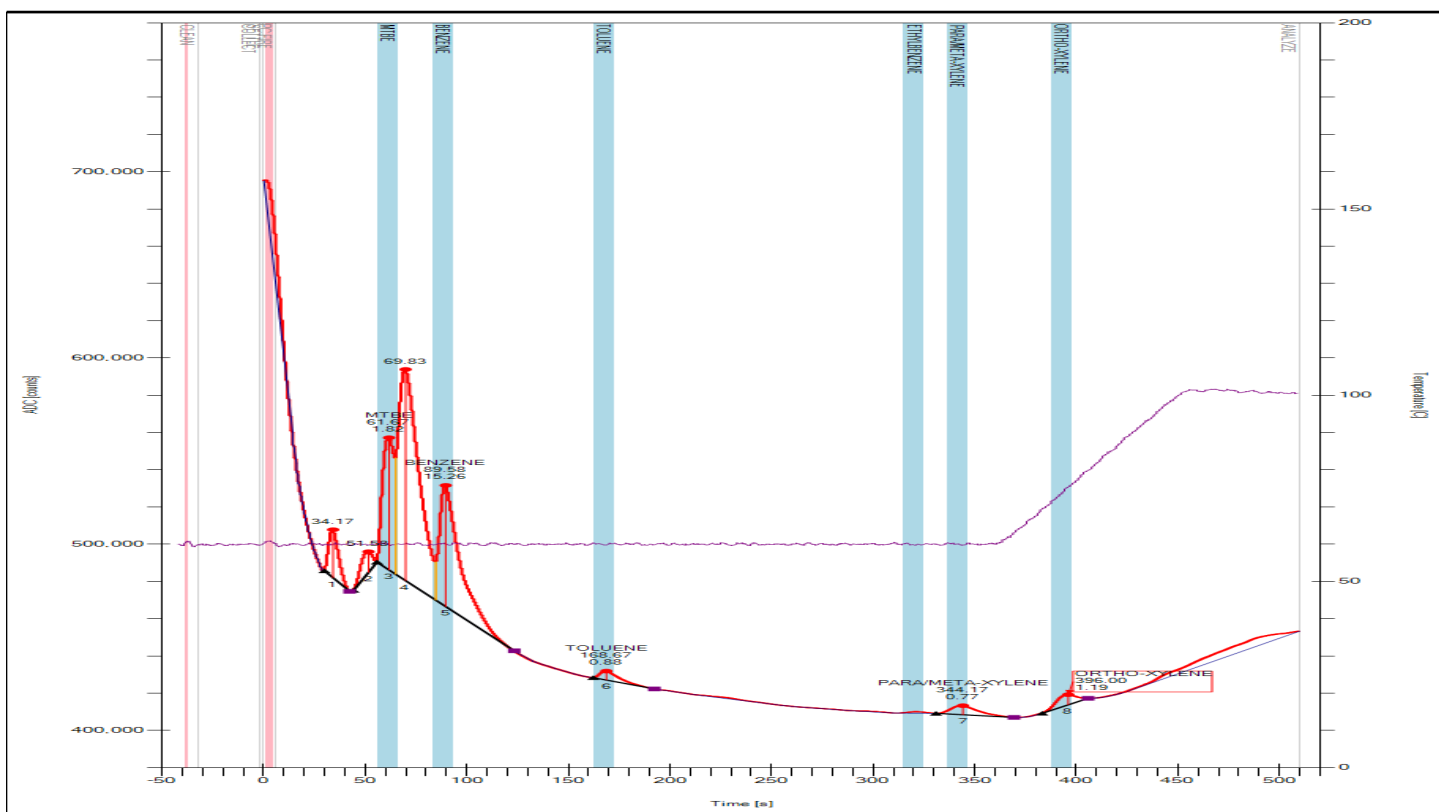
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Pump=45%, 38%

Dilution = 1.0

FSP-3

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.17	25856	149390		
2		51.58	11129	73141		
3	MTBE	61.67	71023	456972	1.82	1.82
4		69.83	113462	1373066		
5	BENZENE	89.58	65076	773024	15.26	15.26
6	TOLUENE	168.67	4797	53898	0.88	0.88
7	PARAMETA-XYLENE	344.17	4883	76631	0.77	0.77
8	ORTHO-XYLENE	396	5456	62435	1.19	1.19



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1143_LOG_888.xml

2022-01-11 12:28:38Z

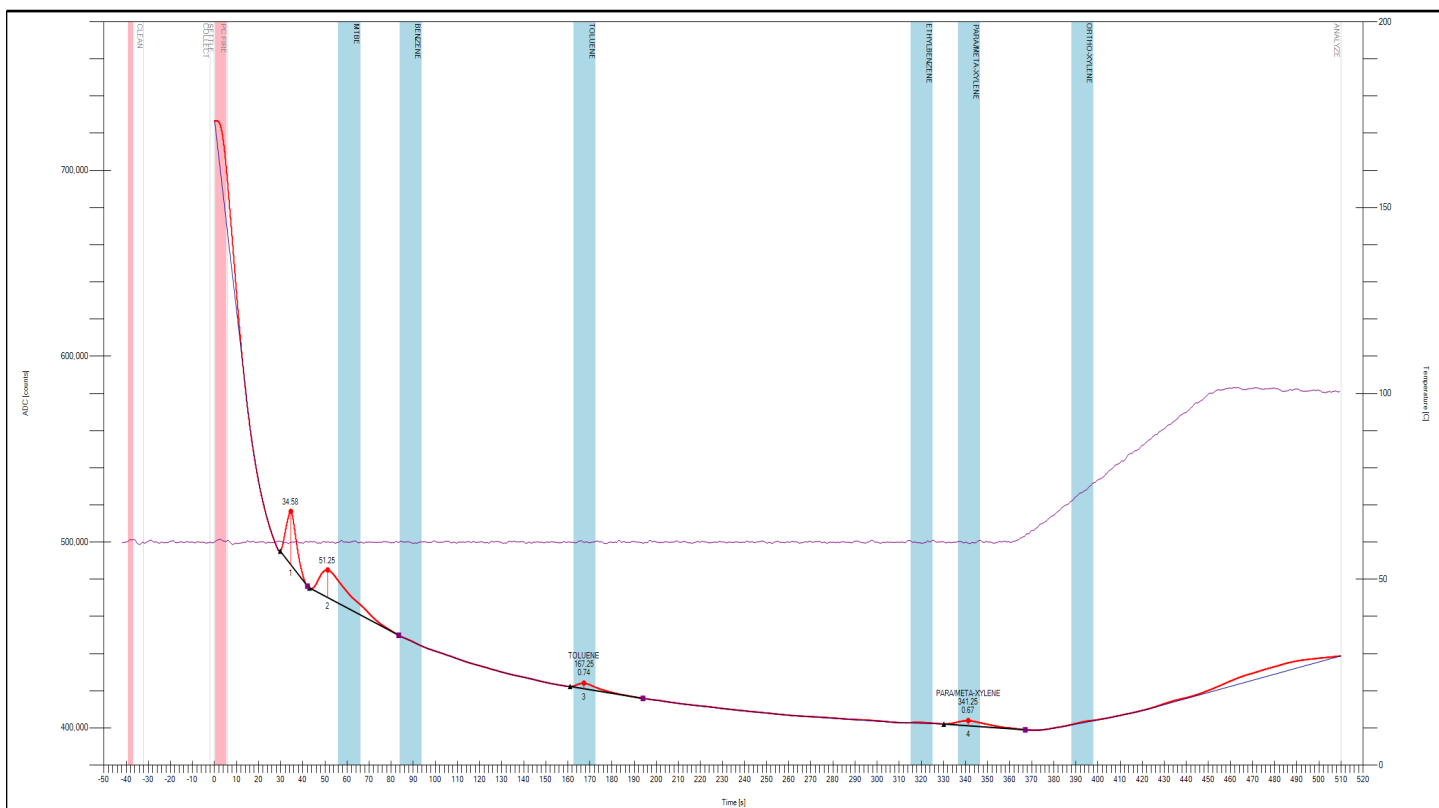
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Pump=45%, 39%

Dilution = 1.0

FSP-4

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.58	28737	158348		
2		51.25	14873	241859		
3	TOLUENE	167.25	2991	33043	0.74	0.74
4	PARA/META-XYLENE	341.25	2806	44432	0.67	0.67



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1228_LOG_891.xml

2022-01-11 14:57:35Z

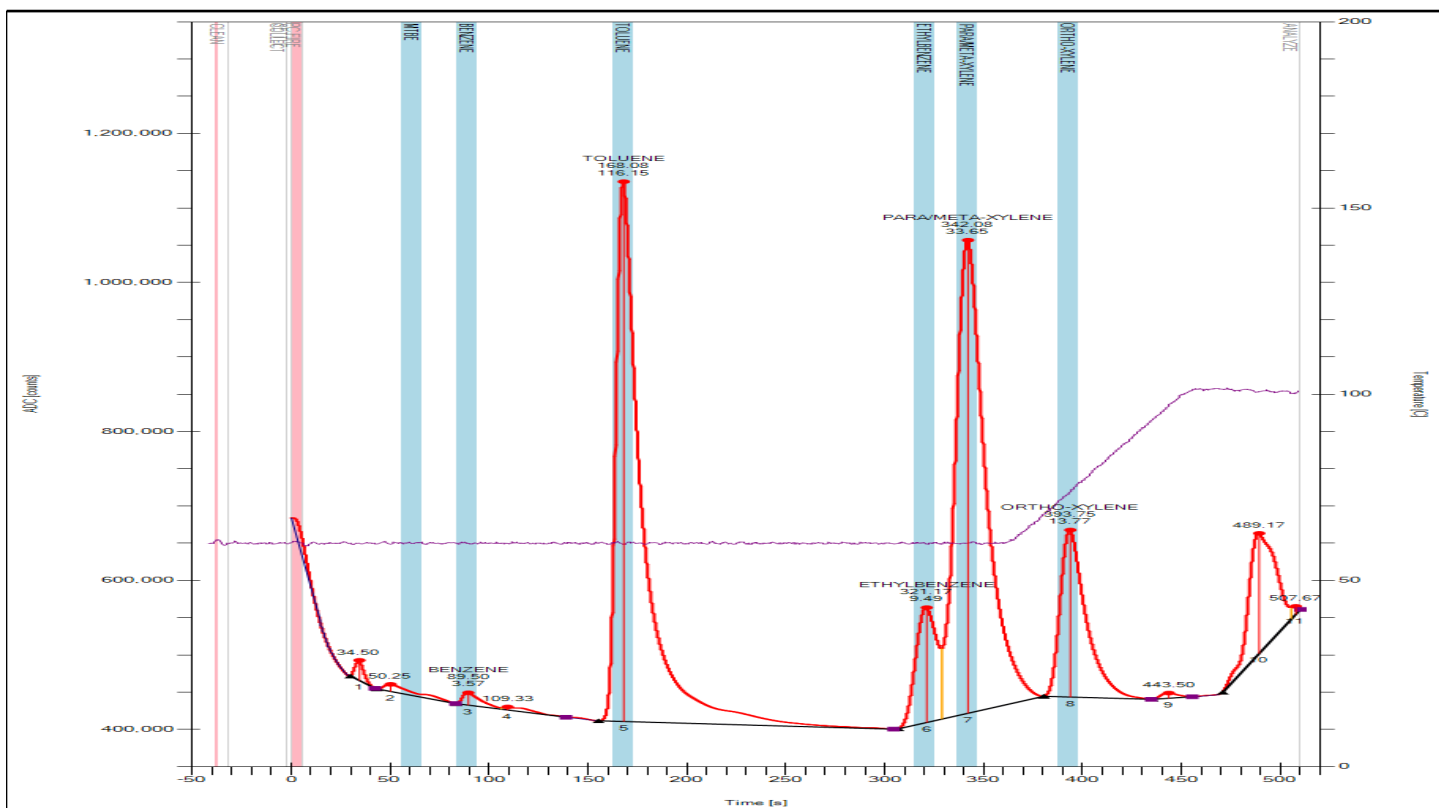
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Pump=45%, 40%

Dilution = 1.0

FSP-5B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.5	27130	140925		
2		50.25	9577	188236		
3	BENZENE	89.5	16652	180353	3.57	3.57
4		109.33	4117	80488		
5	TOLUENE	168.08	724774	11226714	116.15	116.15
6	ETHYLBENZENE	321.17	154240	1896788	9.49	9.49
7	PARAMETA-XYLENE	342.08	635121	11399924	33.65	33.65
8	ORTHO-XYLENE	393.75	224251	3411781	13.77	13.77
9		443.5	7009	68586		
10		489.17	161371	2465835		
11		507.67	10773	44198		



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1457_LOG_898.xml

2022-01-11 15:11:25Z

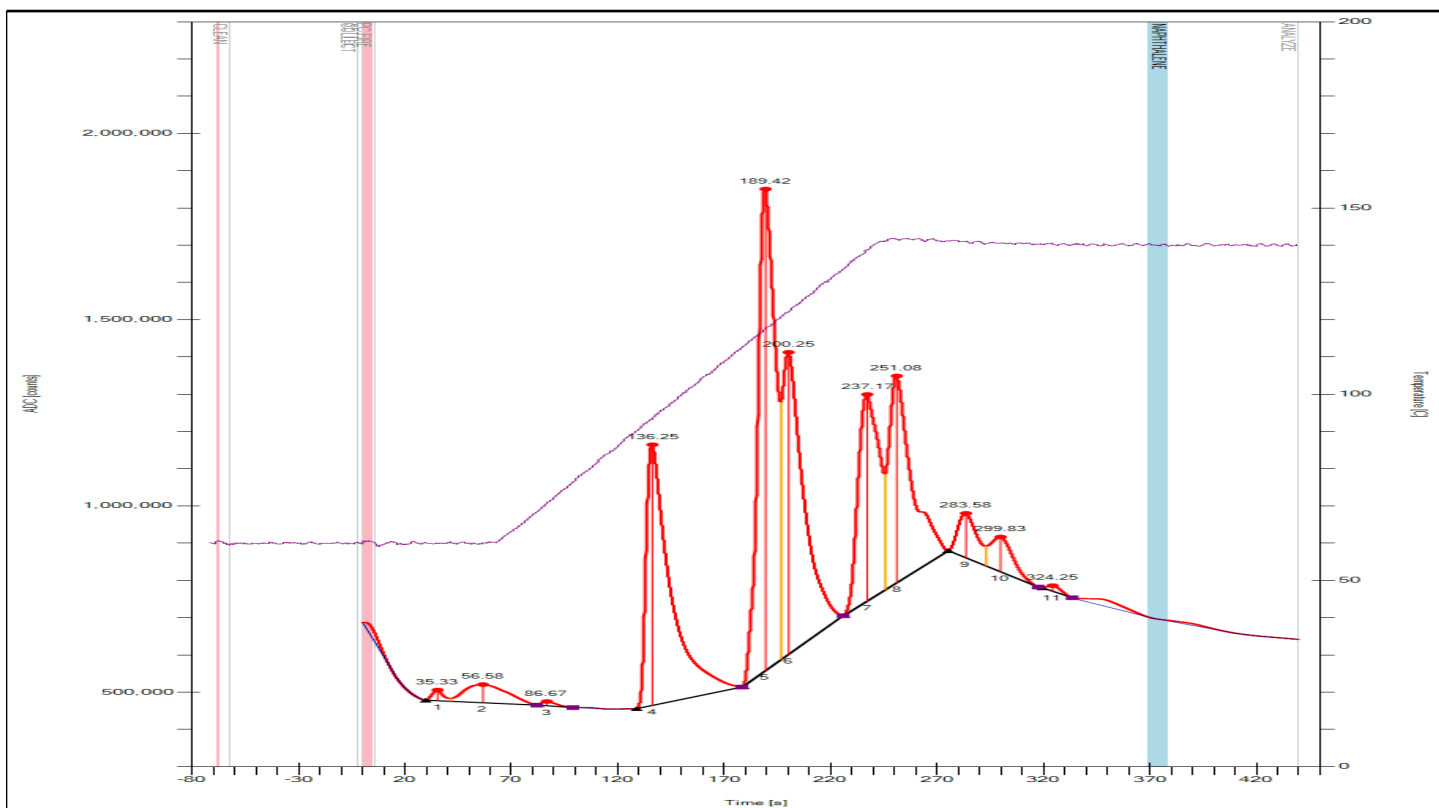
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Pump=45%, 40%

Dilution = 1.0

FSP-5B NAPH

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.33	28836	172350		
2		56.58	48782	1148087		
3		86.67	11533	88207		
4		136.25	699967	9274926		
5		189.42	1293345	12282594		
6		200.25	811102	9607610		
7		237.17	555330	6275463		
8		251.08	555424	7077866		
9		283.58	119506	1277258		
10		299.83	93573	1182215		
11		324.25	14901	118835		



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1511_LOG_899.xml

2022-01-11 09:20:30Z

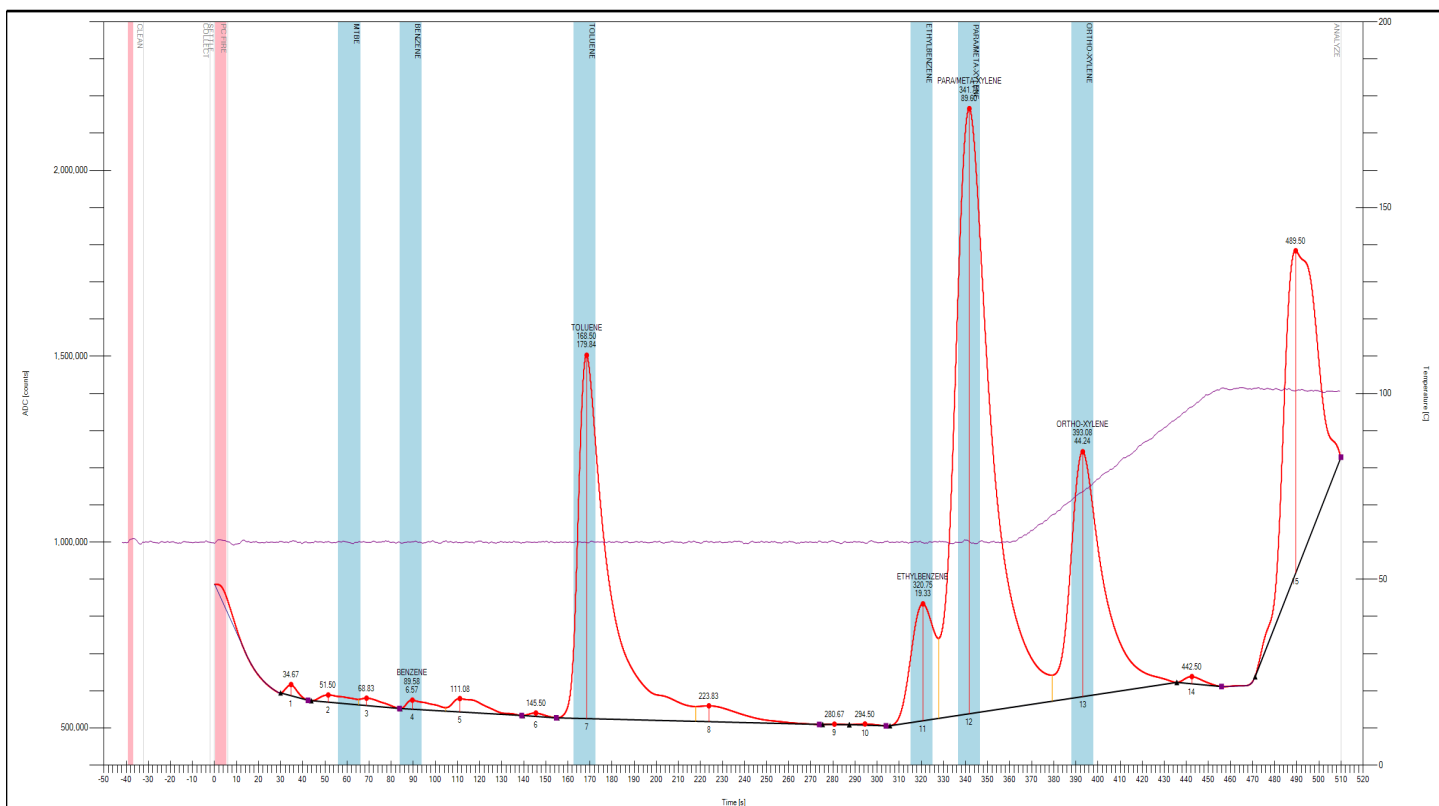
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-5C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	30021	169882		
2		51.5	19371	312078		
3		68.83	19948	232722		
4	BENZENE	89.58	24453	329278	6.57	6.57
5		111.08	35991	611668		
6		145.5	9107	69057		
7	TOLUENE	168.5	977781	15371207	179.84	179.84
8		223.83	42663	997113		
9		280.67	1044	6347		
10		294.5	3244	29639		
11	ETHYLBENZENE	320.75	314570	3818972	19.33	19.33
12	PARA/META-XYLENE	341.75	1628346	31367485	89.60	89.6
13	ORTHO-XYLENE	393.08	658993	11524261	44.24	44.24
14		442.5	19406	188146		
15		489.5	867437	14439858		



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\0920_LOG_876.xml

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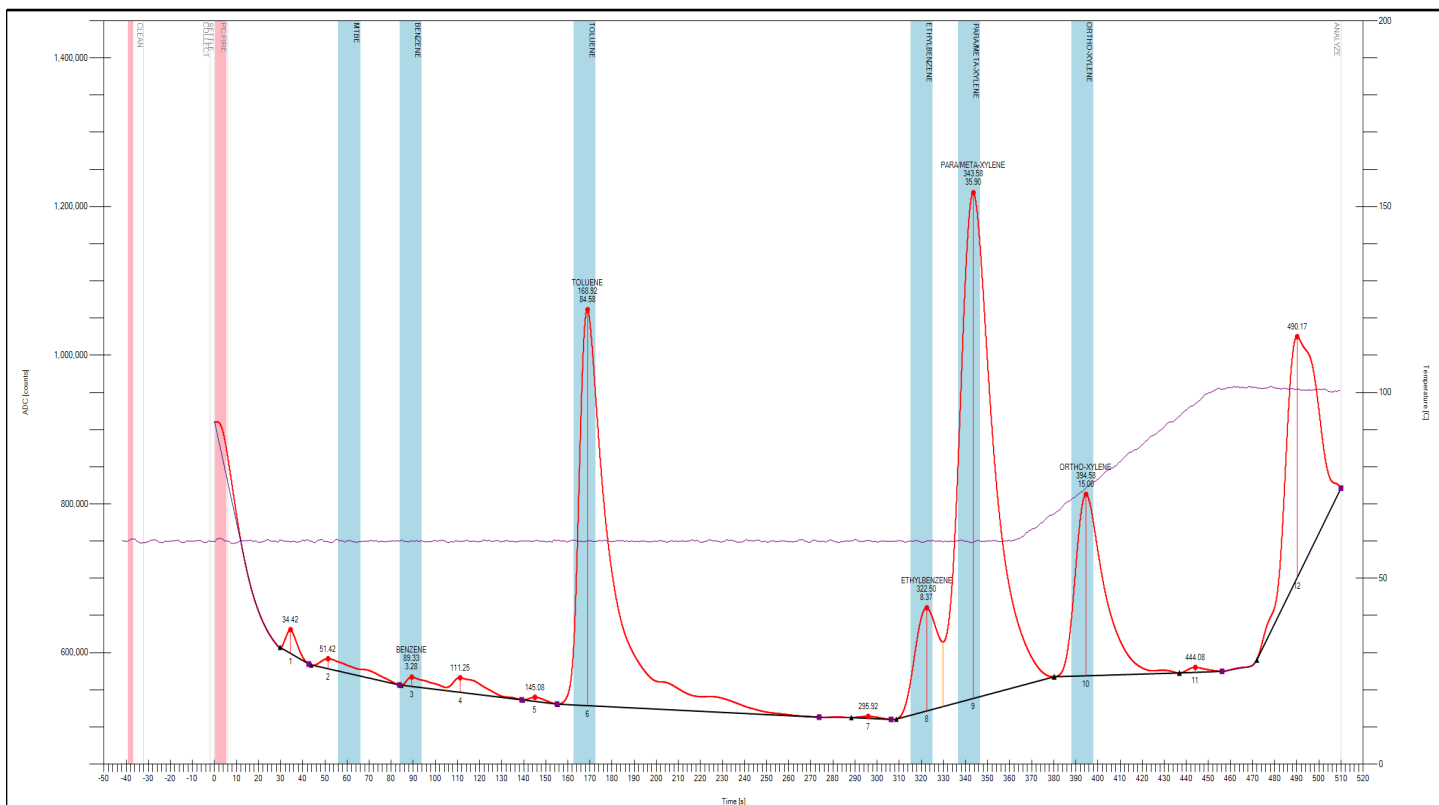
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Pump=45%, 41%

Dilution = 1.0

FSP-5D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.42	31985	185466		
2		51.42	13510	323784		
3	BENZENE	89.33	12596	166471	3.28	3.28
4		111.25	19617	319843		
5		145.08	5571	45070		
6	TOLUENE	168.92	532691	8837714	84.58	84.58
7		295.92	2742	27110		
8	ETHYLBENZENE	322.5	138699	1672882	8.37	8.37
9	PARA/META-XYLENE	343.58	680476	12184996	35.90	35.9
10	ORTHO-XYLENE	394.58	244100	3740854	15.00	15
11		444.08	6742	62472		
12		490.17	324270	5136525		



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2022-01-11 12:43:01Z

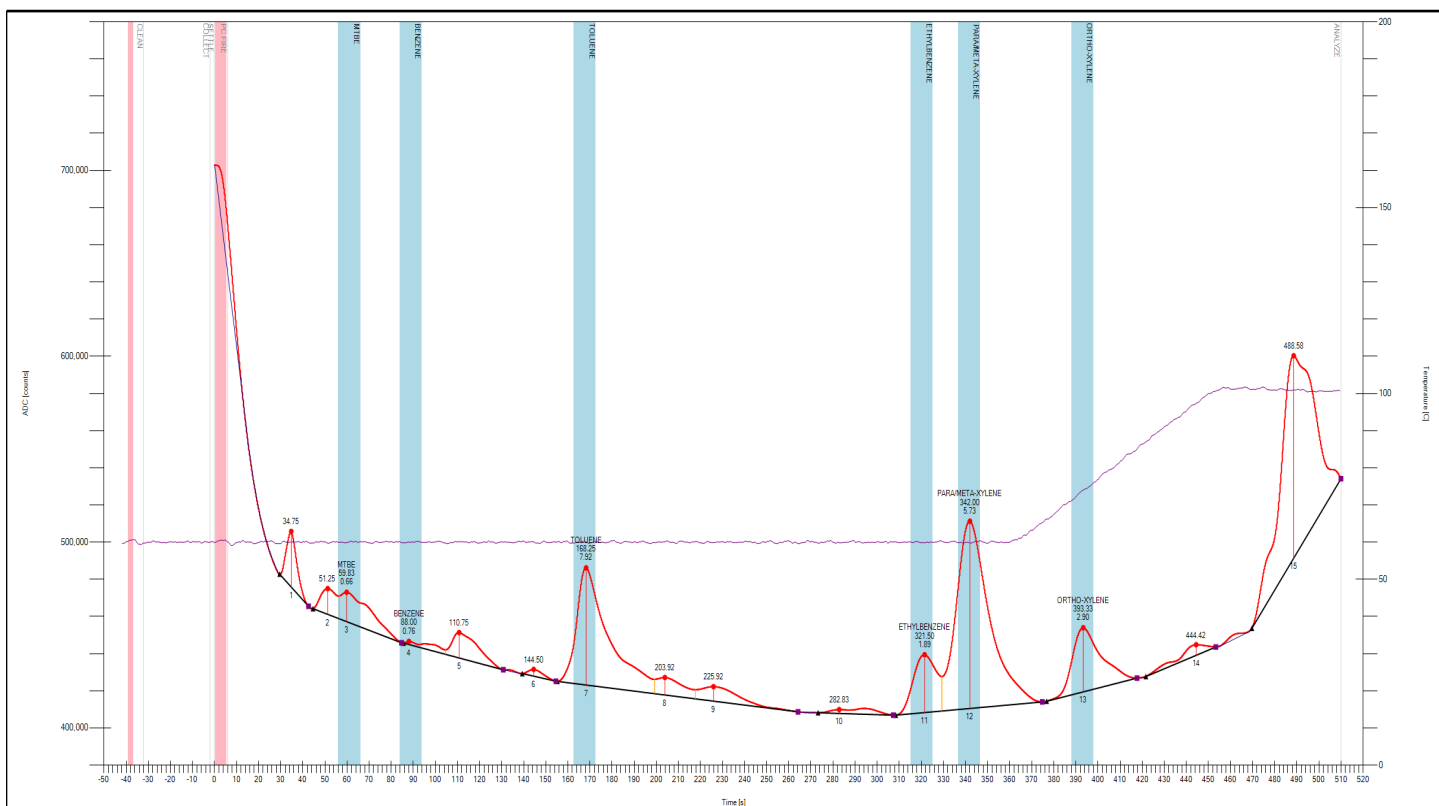
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 39%

Dilution = 1.0

FSP-6

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.75	29944	165814		
2		51.25	13876	117598		
3	MTBE	59.83	15847	264161	0.66	0.66
4	BENZENE	88	1690	43493	0.76	0.76
5		110.75	13725	193152		
6		144.5	3613	28523		
7	TOLUENE	168.25	63073	1065467	7.92	7.92
8		203.92	9404	136951		
9		225.92	7799	157738		
10		282.83	2110	58723		
11	ETHYLBENZENE	321.5	31150	376679	1.89	1.89
12	PARA/META-XYLENE	342	100827	1768126	5.73	5.73
13	ORTHO-XYLENE	393.33	34512	519275	2.90	2.9
14		444.42	5705	82805		
15		488.58	108974	1936293		



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1243_LOG_892.xml

2022-01-11 10:58:18Z

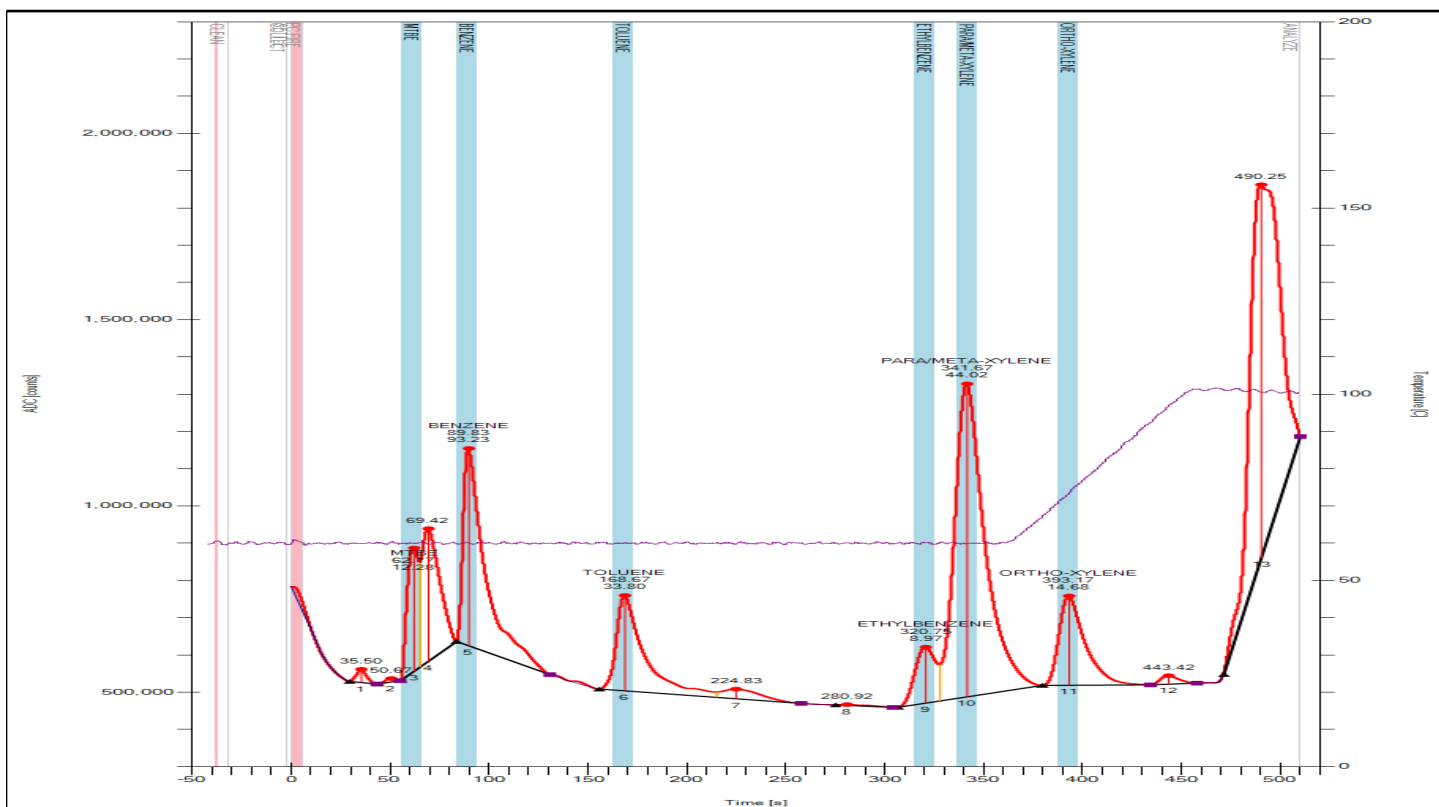
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 39%

Dilution = 1.0

FSP-7

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.5	35783	208459		
2		50.67	9290	53087		
3	MTBE	62.17	330684	2186762	12.28	12.28
4		69.42	355975	3764425		
5	BENZENE	89.83	529972	6726380	93.23	93.23
6	TOLUENE	168.67	256097	4173948	33.80	33.8
7		224.83	26062	594858		
8		280.92	2224	49572		
9	ETHYLBENZENE	320.75	150194	1792756	8.97	8.97
10	PARA/META-XYLENE	341.67	840300	15033813	44.02	44.02
11	ORTHO-XYLENE	393.17	239726	3653659	14.68	14.68
12		443.42	22984	241023		
13		490.25	1002408	17087095		



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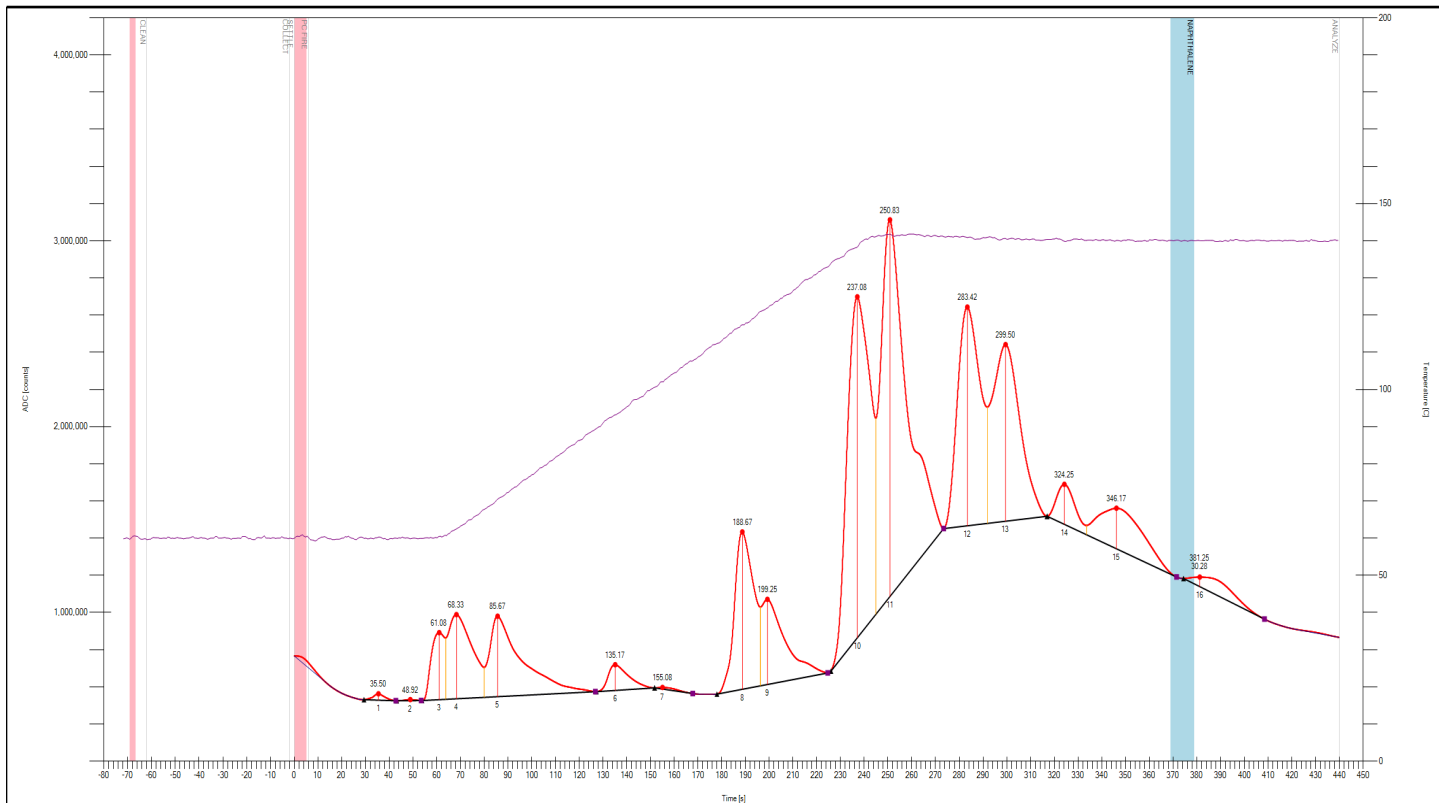
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Pump=45%, 41%

Dilution = 1.0

FSP-7 NAPH

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.5	34379	192571		
2		48.92	5745	29027		
3		61.08	360780	2310102		
4		68.33	453152	5350242		
5		85.67	432935	6873799		
6		135.17	138385	1379889		
7		155.08	8690	94137		
8		188.67	847067	7990541		
9		199.25	458364	5357861		
10		237.08	1835655	20418042		
11		250.83	2027183	26494646		
12		283.42	1177212	13029829		
13		299.5	950928	12966615		
14		324.25	215490	1970331		
15		346.17	218451	4889257		
16		381.25	51213	1434799	30.28	30.28



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1539_LOG_900.xml

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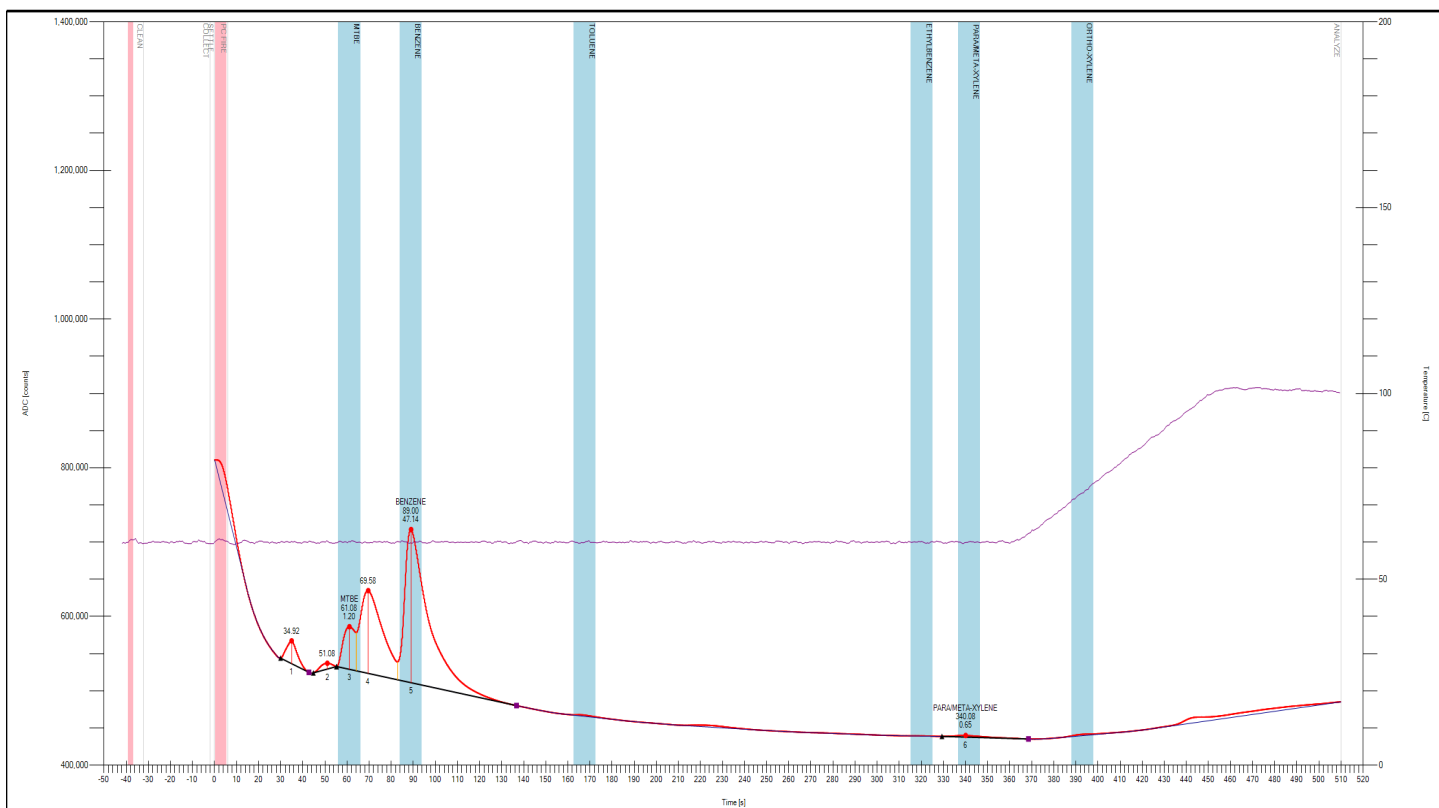
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Pump=45%, 40%

Dilution = 1.0

FSP-8

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.92	30712	174911		
2		51.08	7806	47759		
3	MTBE	61.08	57315	354006	1.20	1.2
4		69.58	111372	1316489		
5	BENZENE	89	206078	2620348	47.14	47.14
6	PARA/META-XYLENE	340.08	2180	36004	0.65	0.65



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2022-01-11 09:47:42Z

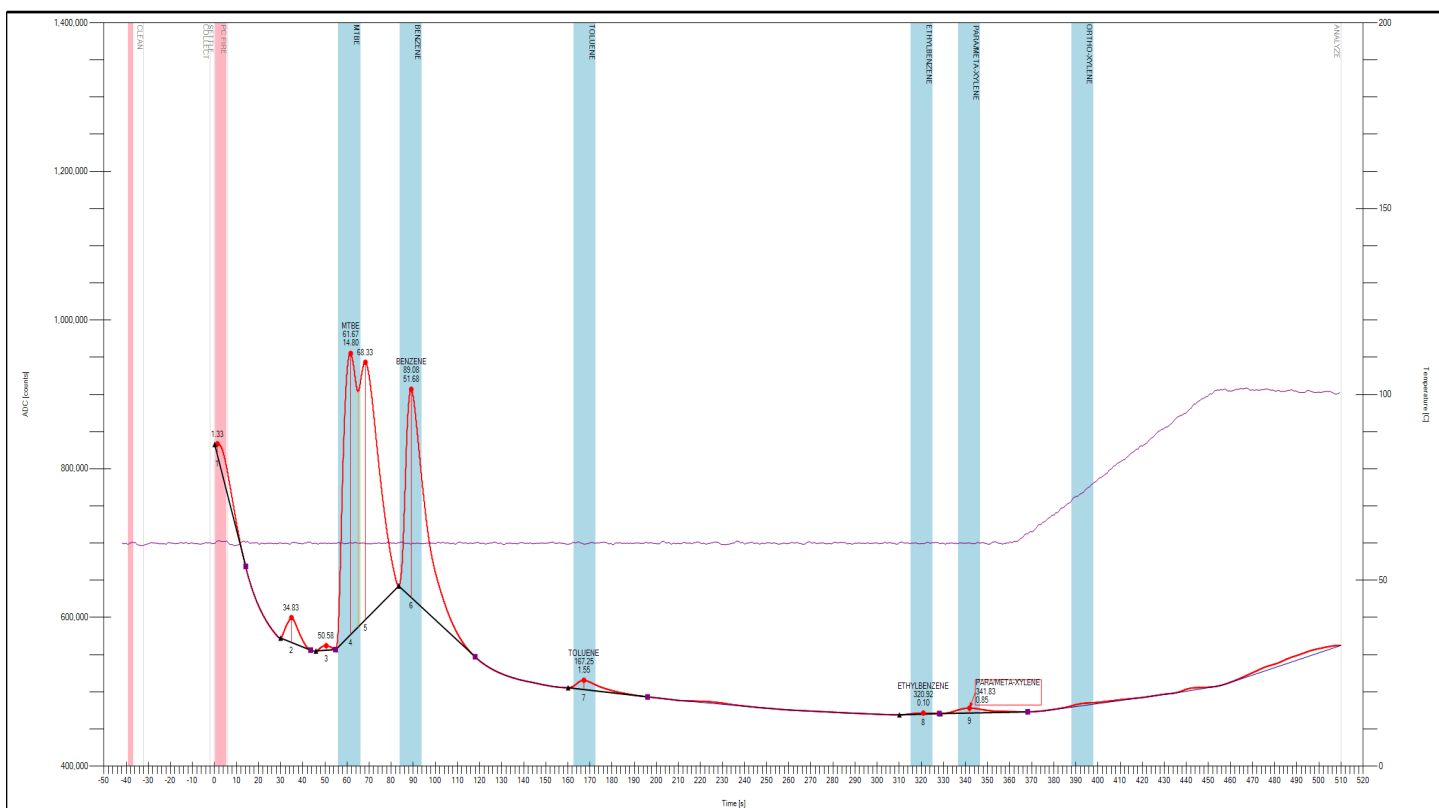
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Pump=45%, 41%

Dilution = 1.0

FSP-9

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		1.33	15332	255049		
2		34.83	33332	214297		
3		50.58	6124	31683		
4	MTBE	61.67	378114	2602925	14.80	14.8
5		68.33	346299	3529906		
6	BENZENE	89.08	280270	2921166	51.68	51.68
7	TOLUENE	167.25	12498	154600	1.55	1.55
8	ETHYLBENZENE	320.92	1378	13105	0.10	0.1
9	PARA/META-XYLENE	341.83	6583	104438	0.85	0.85



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\0947_LOG_878.xml

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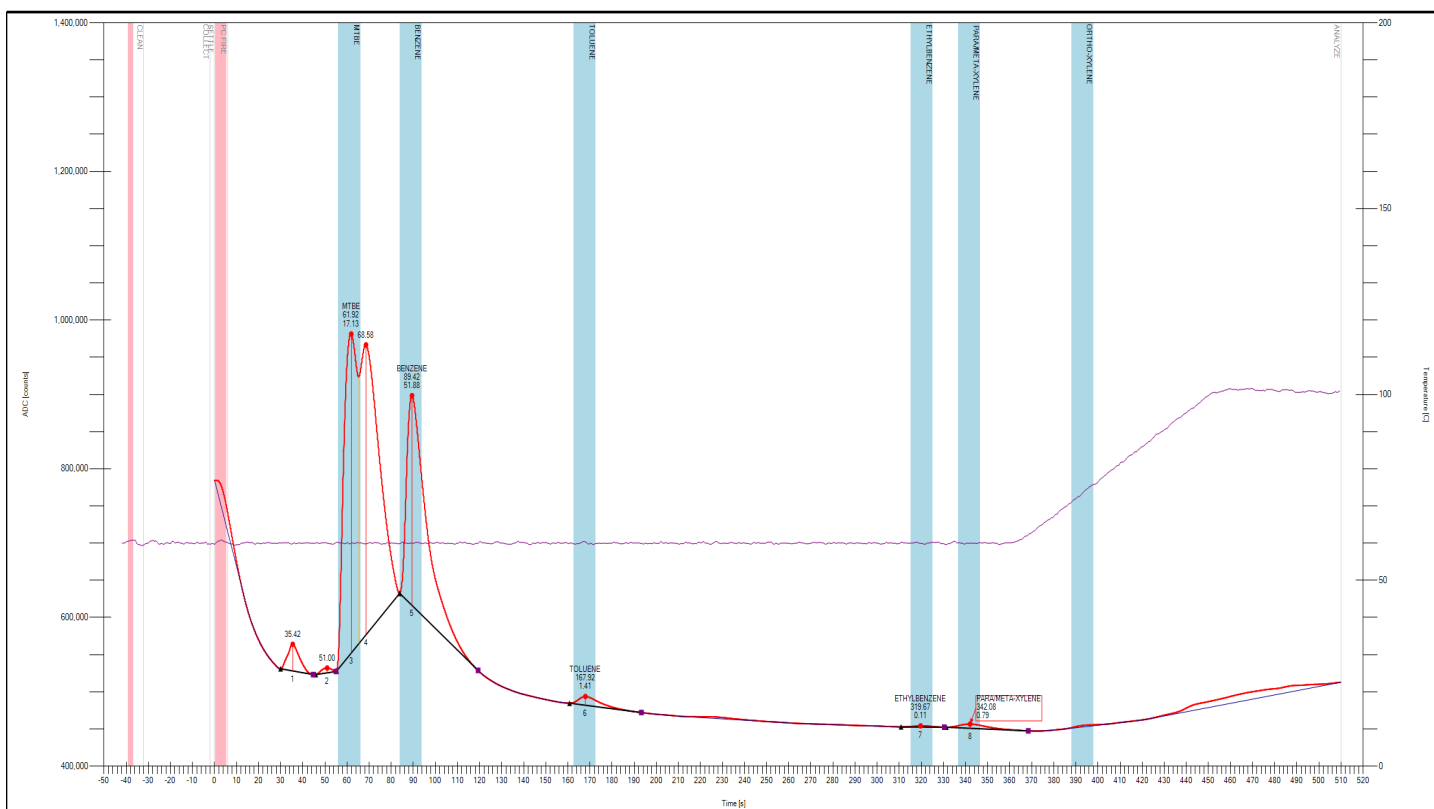
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 39%

Dilution = 1.0

FSP-9 T2

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.42	35822	224166		
2		51	6508	34389		
3	MTBE	61.92	429220	2989561	17.13	17.13
4		68.58	390124	3971642		
5	BENZENE	89.42	282191	2934945	51.88	51.88
6	TOLUENE	167.92	11748	133441	1.41	1.41
7	ETHYLBENZENE	319.67	1561	15491	0.11	0.11
8	PARA/META-XYLENE	342.08	5676	84190	0.79	0.79



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1007_LOG_880.xml

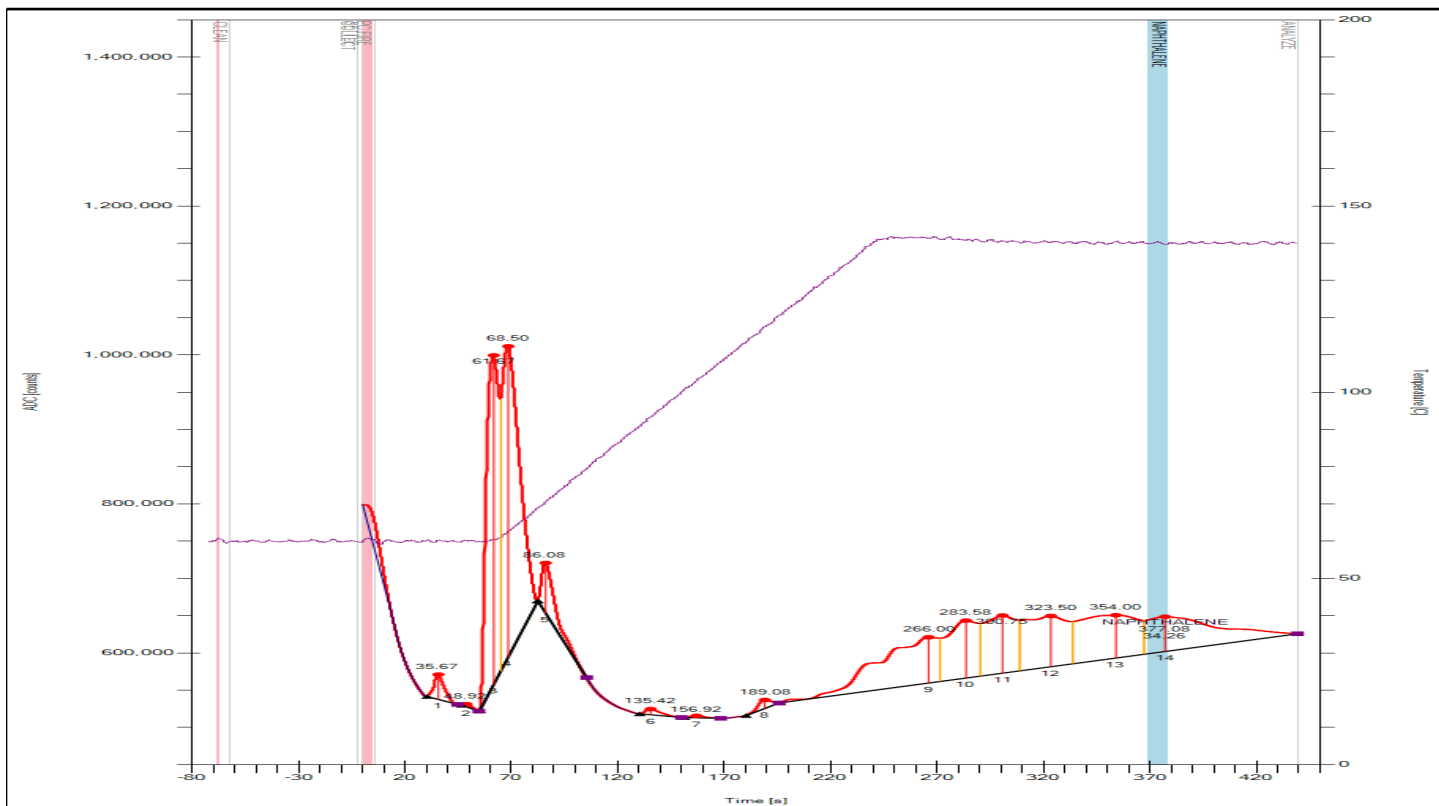
2022-01-11 16:10:01Z

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Pump=45%, 41%

Dilution = 1.0

FSP-9 NAPH

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.67	33380	190159		
2		48.92	3528	17999		
3		61.67	441957	2967799		
4		68.5	417150	4079314		
5		86.08	67466	517904		
6		135.42	7646	63900		
7		156.92	2736	21555		
8		189.08	11310	78270		
9		266	61488	2018610		
10		283.58	77175	1310099		
11		300.75	77432	1351012		
12		323.5	68164	1621027		
13		354	57559	1874138		
14	NAPHTHALENE	377.08	46663	1774421	34.26	34.26



Red: C:\Users\cooldesk\Documents\EllvinData\20220111\1610_LOG_902.xml

2022-01-12 15:57:51Z

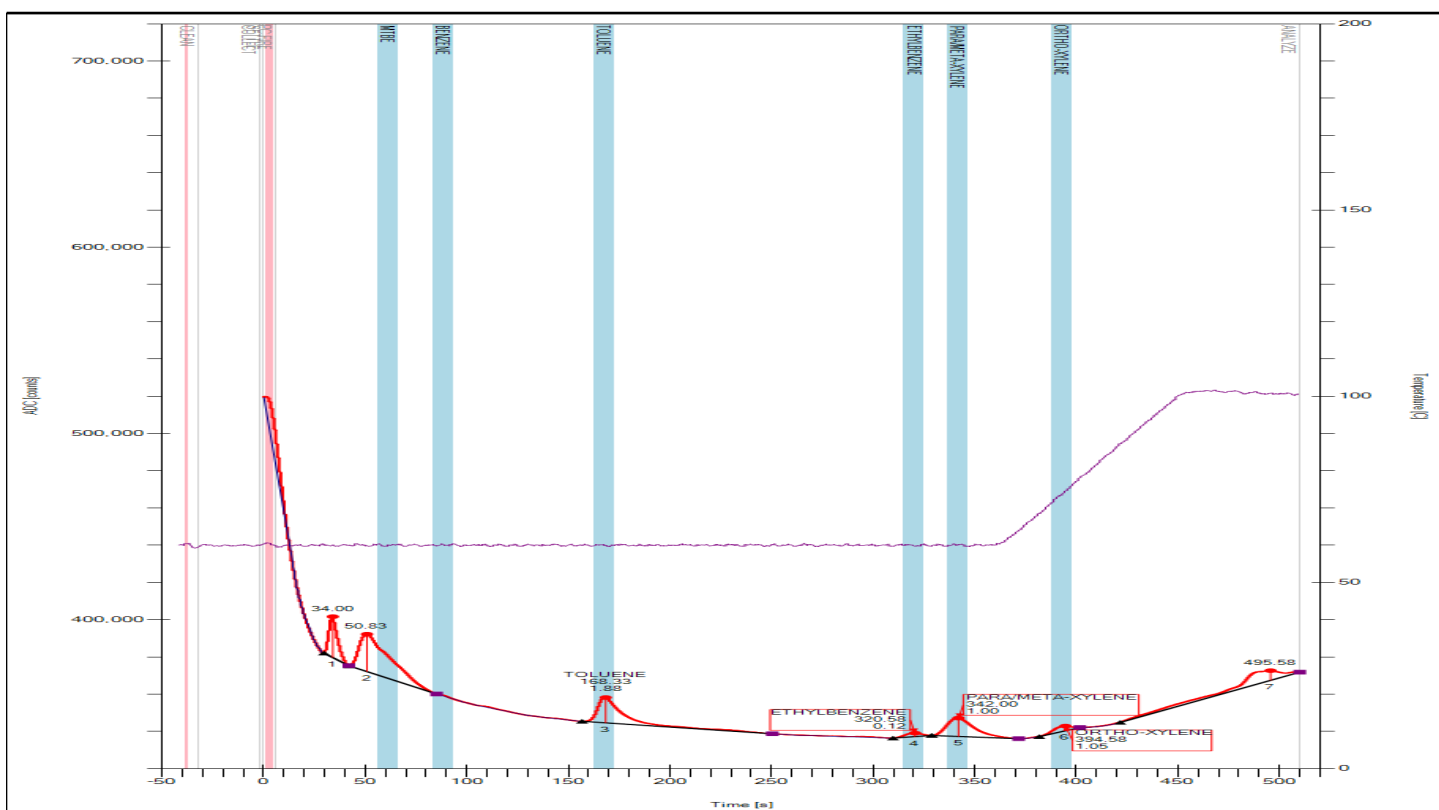
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-10A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34	21970	109907		
2		50.83	20069	366668		
3	TOLUENE	168.33	13613	203619	1.88	1.88
4	ETHYLBENZENE	320.58	1882	17978	0.12	0.12
5	PARA/META-XYLENE	342	9901	156085	1.00	1
6	ORTHO-XYLENE	394.58	2531	26209	1.05	1.05
7		495.58	5226	159916		



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1557_LOG_938.xml

2022-01-12 15:46:17Z

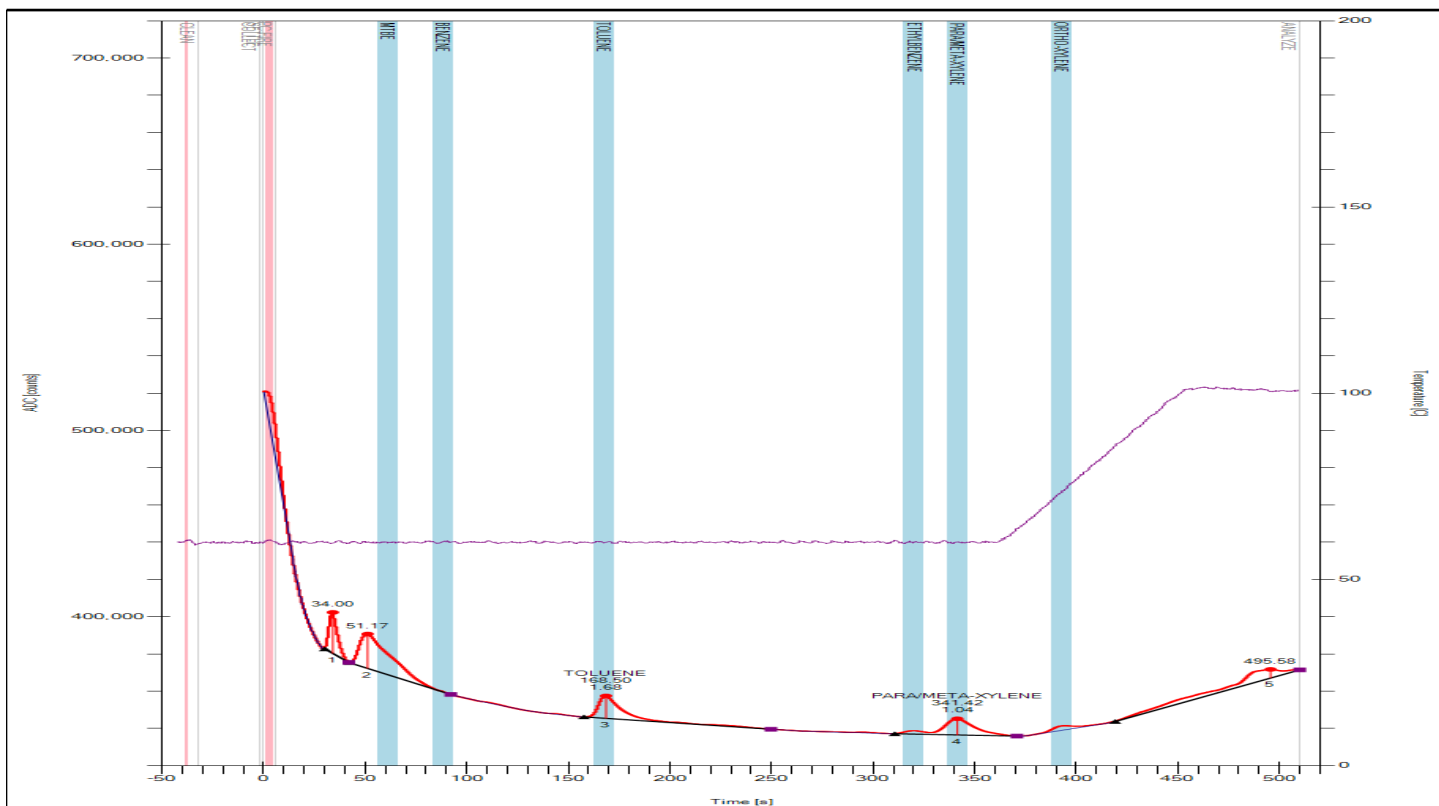
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-10B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34	22026	108485		
2		51.17	18480	342910		
3	TOLUENE	168.5	12053	174078	1.68	1.68
4	PARA/META-XYLENE	341.42	8680	168861	1.04	1.04
5		495.58	4648	184260		



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2022-01-12 15:34:47Z

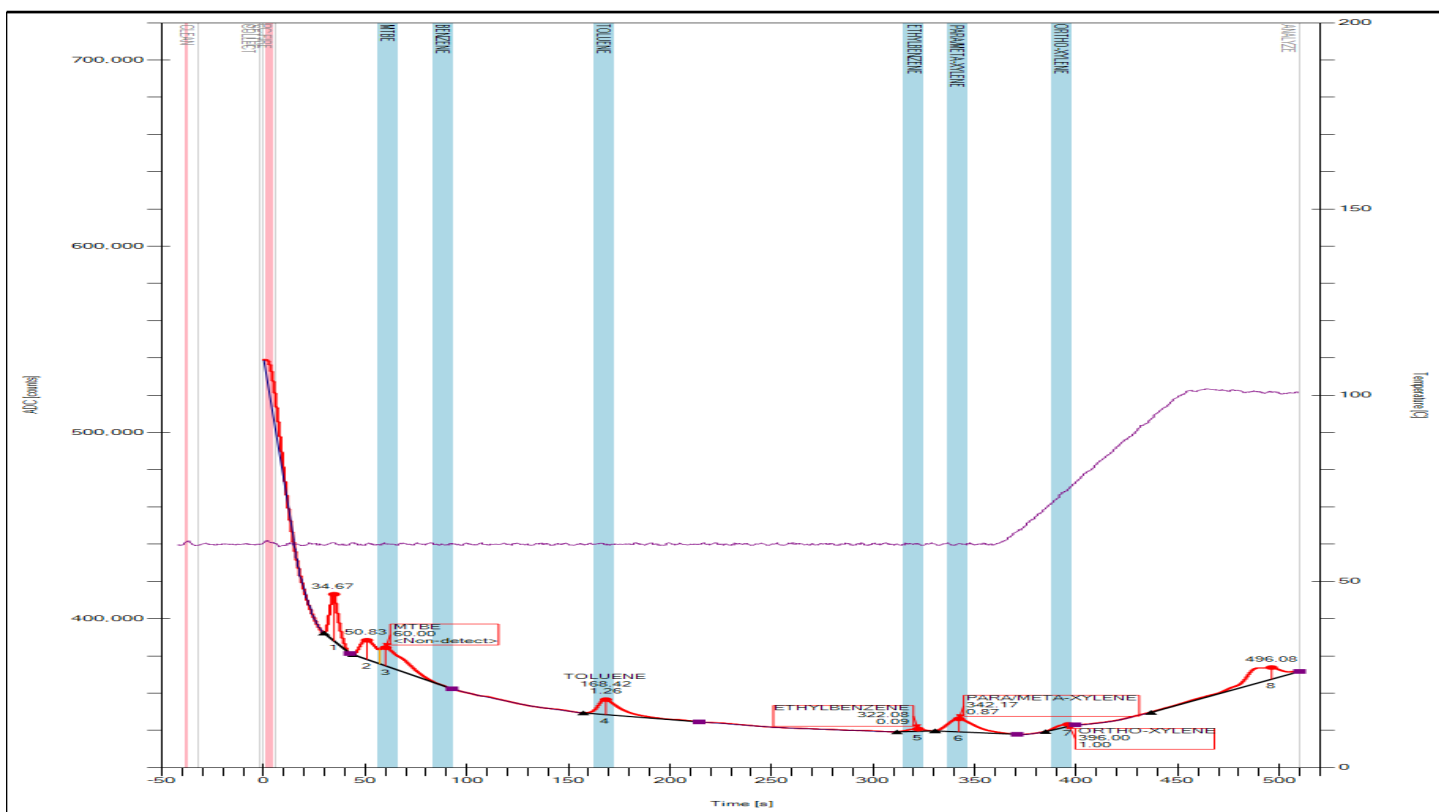
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 40%

Dilution = 1.0

FSP-10C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	25139	130911		
2		50.83	10288	93535		
3	MTBE	60	9757	149335	<Non-detect>	
4	TOLUENE	168.42	8083	111944	1.26	1.26
5	ETHYLBENZENE	322.08	1254	11604	0.09	0.09
6	PARA/META-XYLENE	342.17	6966	110069	0.87	0.87
7	ORTHO-XYLENE	396	1105	11898	1.00	1
8		496.08	6267	149340		



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2022-01-12 11:33:38Z

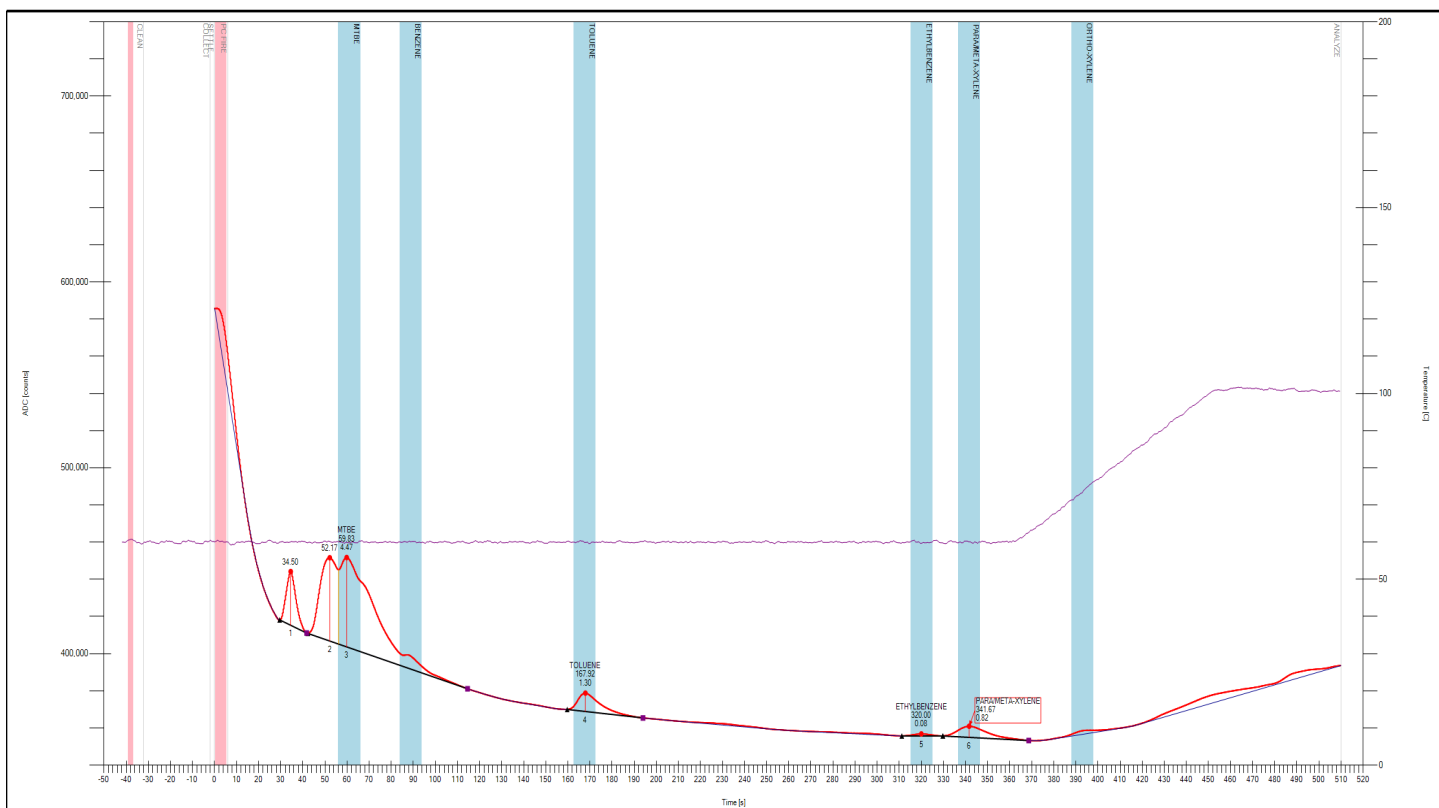
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Pump=45%, 41%

Dilution = 1.0

FSP-10D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.5	28934	148027		
2		52.17	44821	393521		
3	MTBE	59.83	48092	894873	4.47	4.47
4	TOLUENE	167.92	9891	117185	1.30	1.3
5	ETHYLBENZENE	320	1098	9876	0.08	0.08
6	PARA/META-XYLENE	341.67	6008	94144	0.82	0.82



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1133_LOG_920.xml

2022-01-12 11:19:03Z

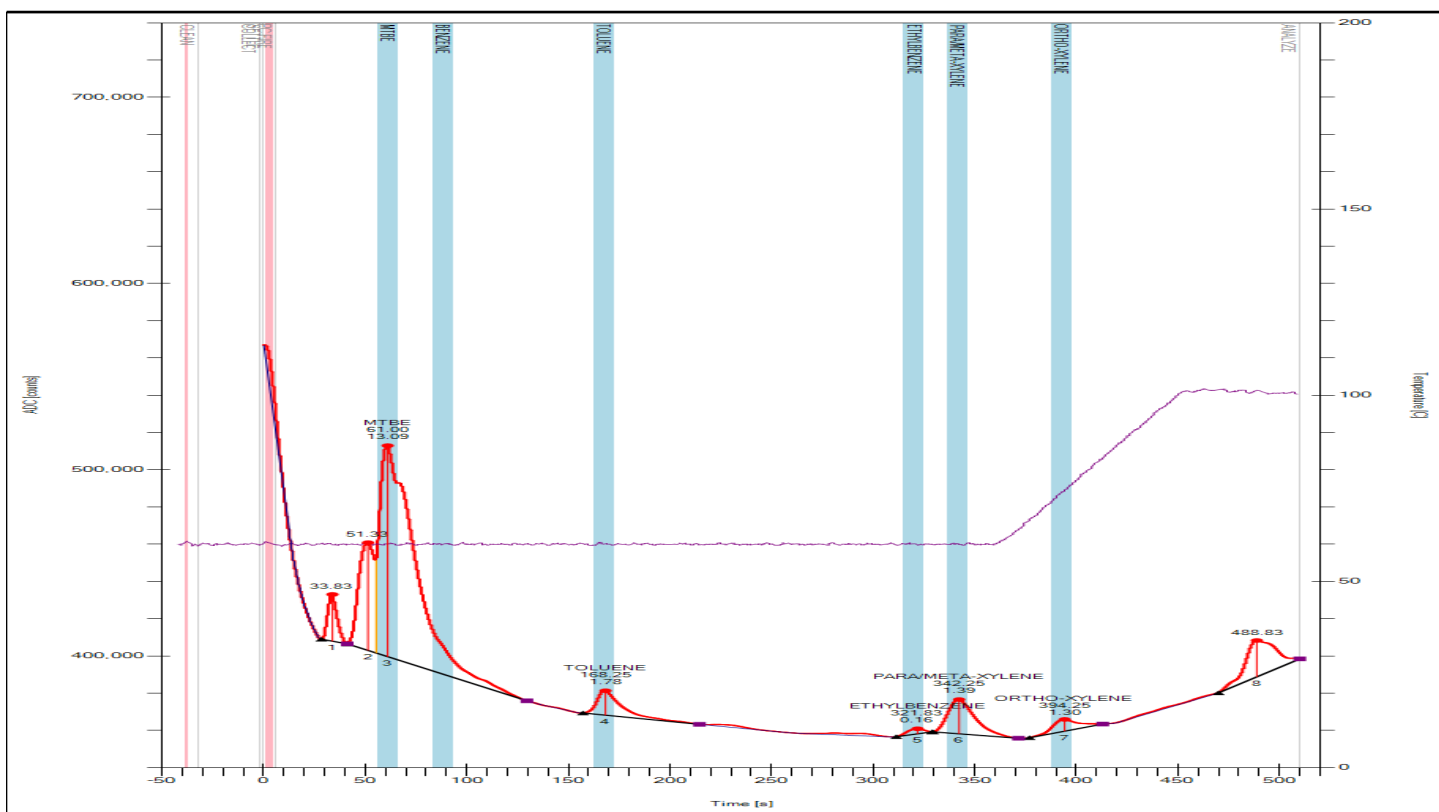
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Pump=45%, 41%

Dilution = 1.0

FSP-11

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.83	25127	133901		
2		51.33	57870	504077		
3	MTBE	61	113324	2320617	13.09	13.09
4	TOLUENE	168.25	13135	189367	1.78	1.78
5	ETHYLBENZENE	321.83	2728	26063	0.16	0.16
6	PARA/META-XYLENE	342.25	18403	287990	1.39	1.39
7	ORTHO-XYLENE	394.25	6315	90752	1.30	1.3
8		488.83	19518	325296		



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2022-01-12 11:47:42Z

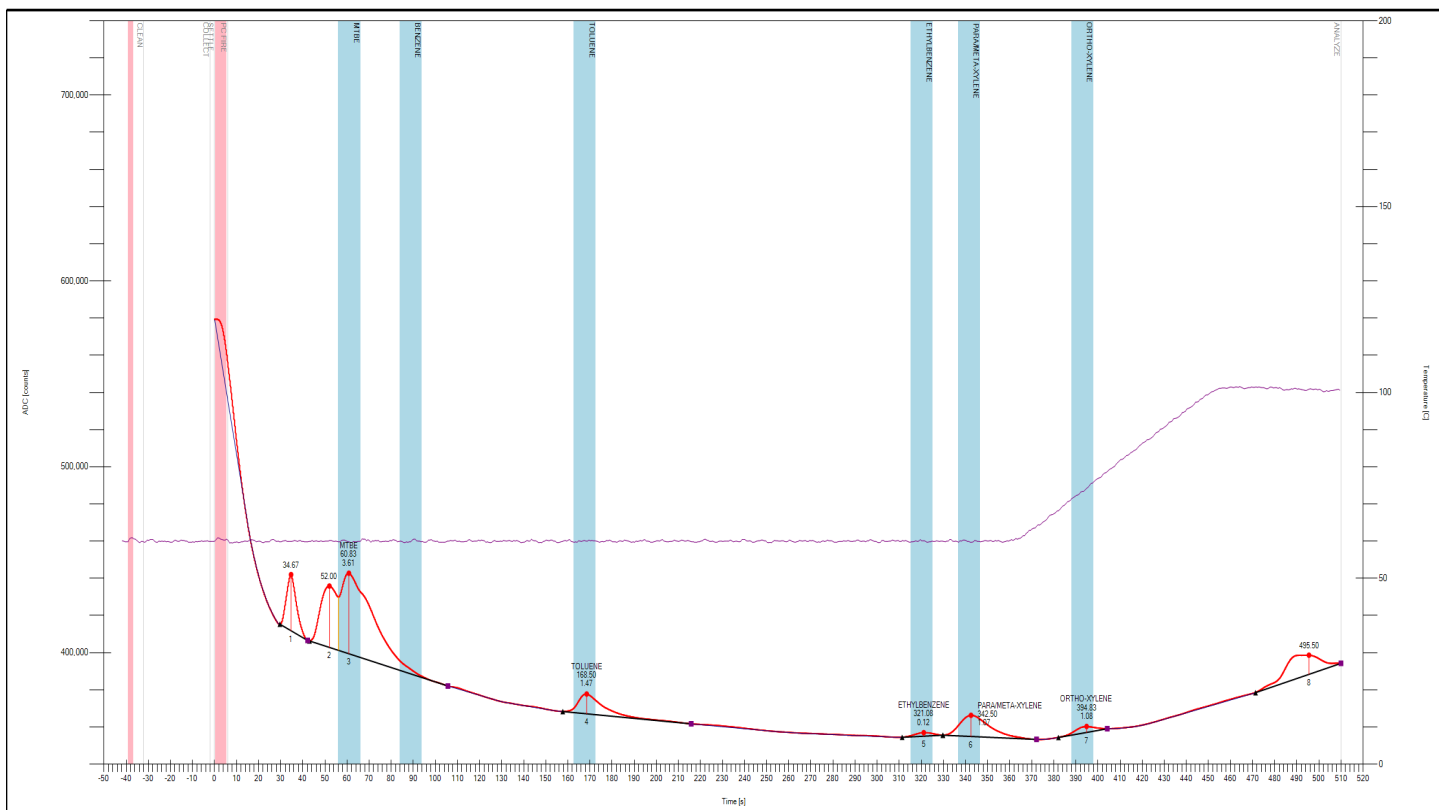
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Pump=45%, 41%

Dilution = 1.0

FSP-12

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	30229	157883		
2		52	33035	277868		
3	MTBE	60.83	43336	752386	3.61	3.61
4	TOLUENE	168.5	10659	143303	1.47	1.47
5	ETHYLBENZENE	321.08	1896	17895	0.12	0.12
6	PARA/META-XYLENE	342.5	11391	179906	1.07	1.07
7	ORTHO-XYLENE	394.83	3238	34113	1.08	1.08
8		495.5	10324	211967		



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1147_LOG_921.xml

2022-01-12 12:01:20Z

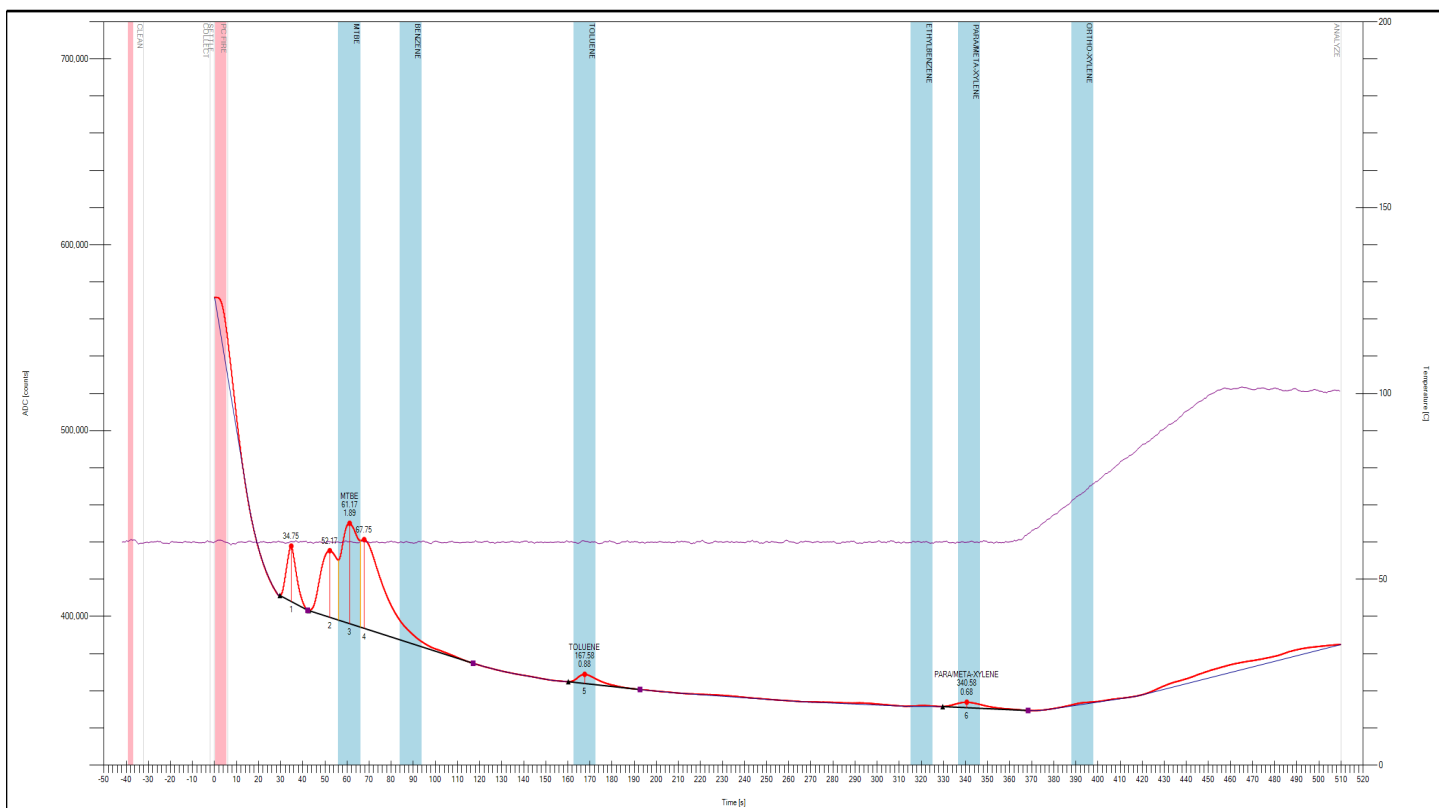
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Pump=45%, 40%

Dilution = 1.0

FSP-13

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.75	29831	154986		
2		52.17	35838	302428		
3	MTBE	61.17	54014	469162	1.89	1.89
4		67.75	47760	629891		
5	TOLUENE	167.58	4938	55069	0.88	0.88
6	PARA/META-XYLENE	340.58	2936	46015	0.68	0.68



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1201_LOG_922.xml

2022-01-12 13:50:04Z

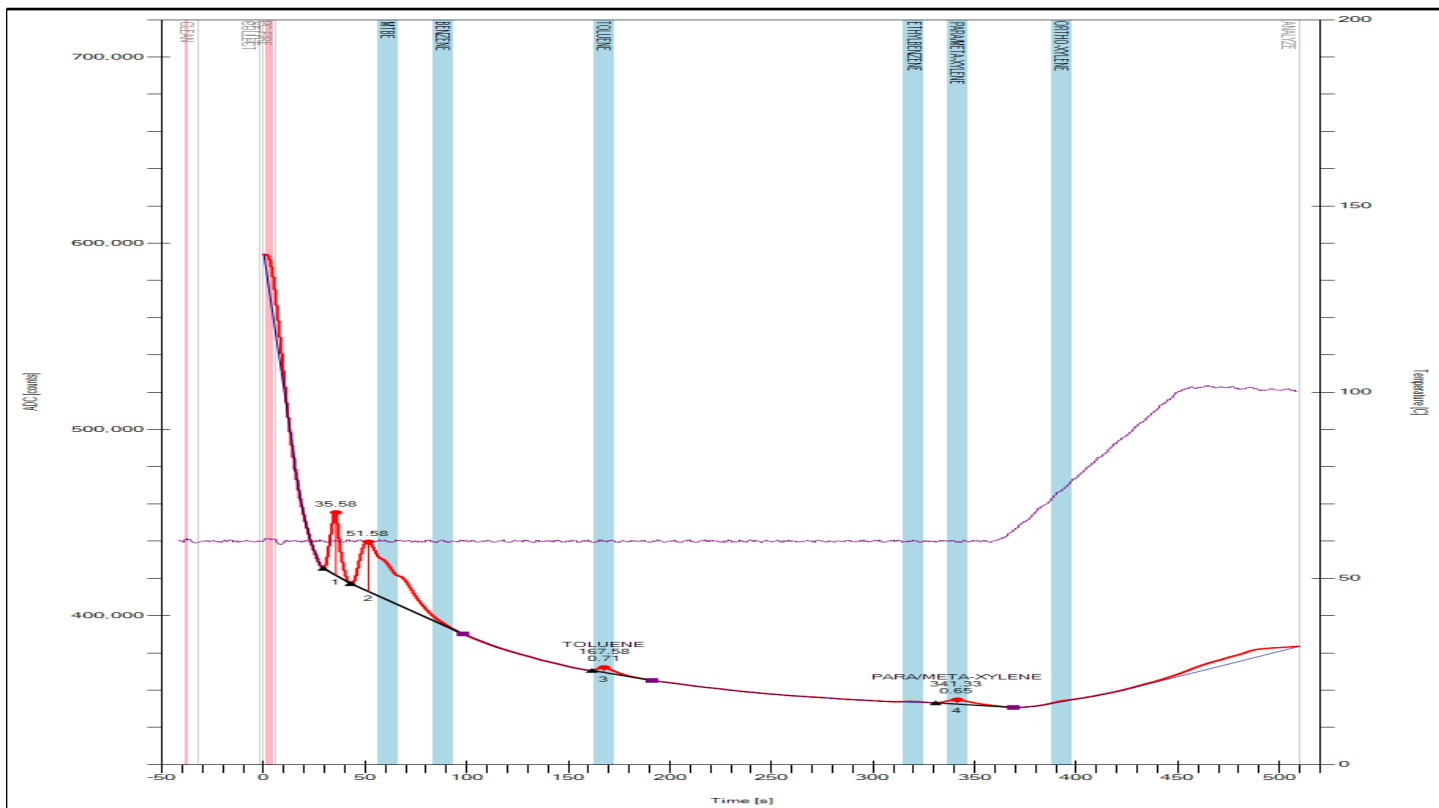
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Pump=45%, 41%

Dilution = 1.0

FSP-14B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.58	33804	183346		
2		51.58	26714	601221		
3	TOLUENE	167.58	2665	28544	0.71	0.71
4	PARA/META-XYLENE	341.33	2345	38247	0.65	0.65



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2022-01-12 12:32:33Z

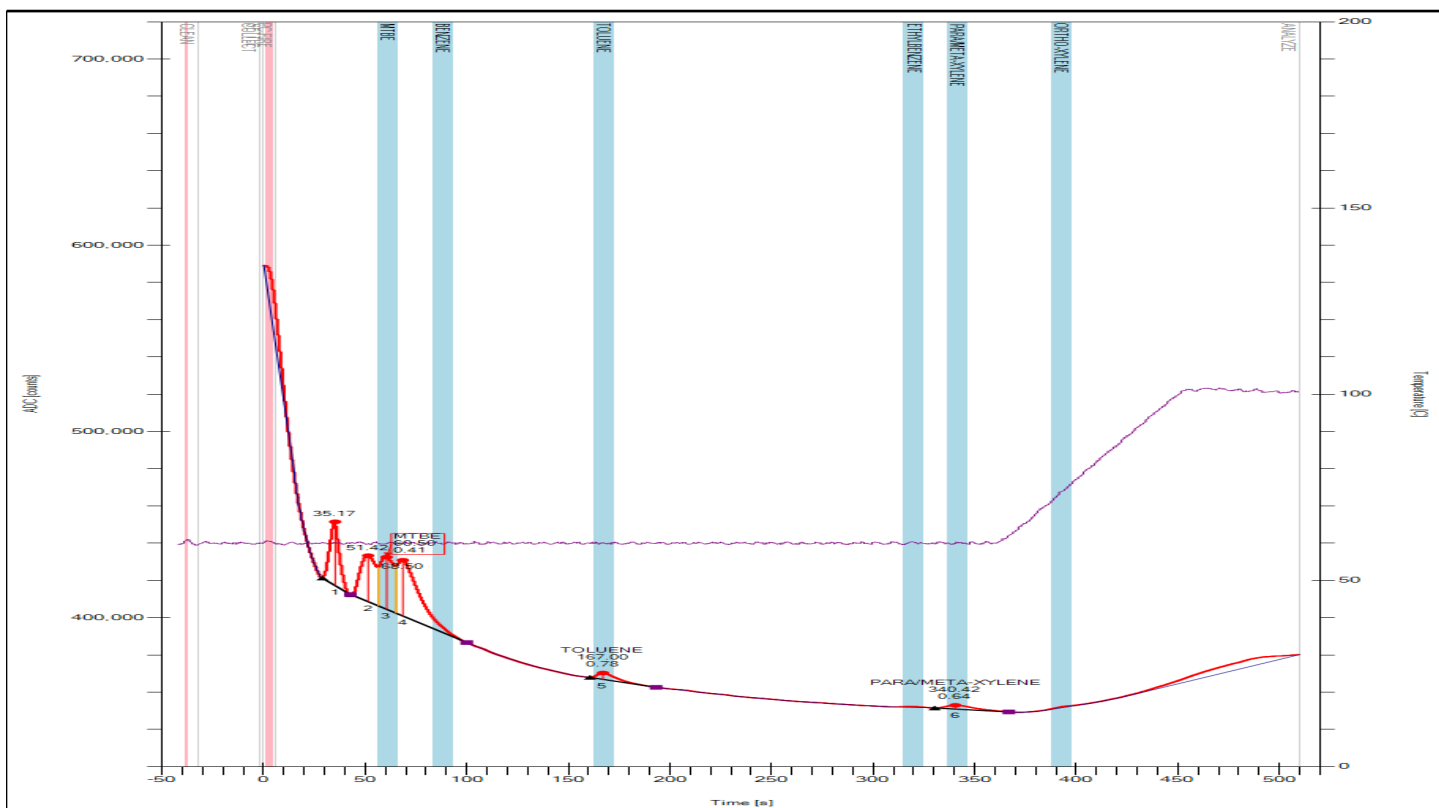
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Pump=45%, 41%

Dilution = 1.0

FSP-14C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.17	34267	189967		
2		51.42	24702	218066		
3	MTBE	60.5	28006	223930	0.41	0.41
4		68.5	29973	396053		
5	TOLUENE	167	3418	39385	0.78	0.78
6	PARA/META-XYLENE	340.42	2029	34693	0.64	0.64



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1232_LOG_924.xml

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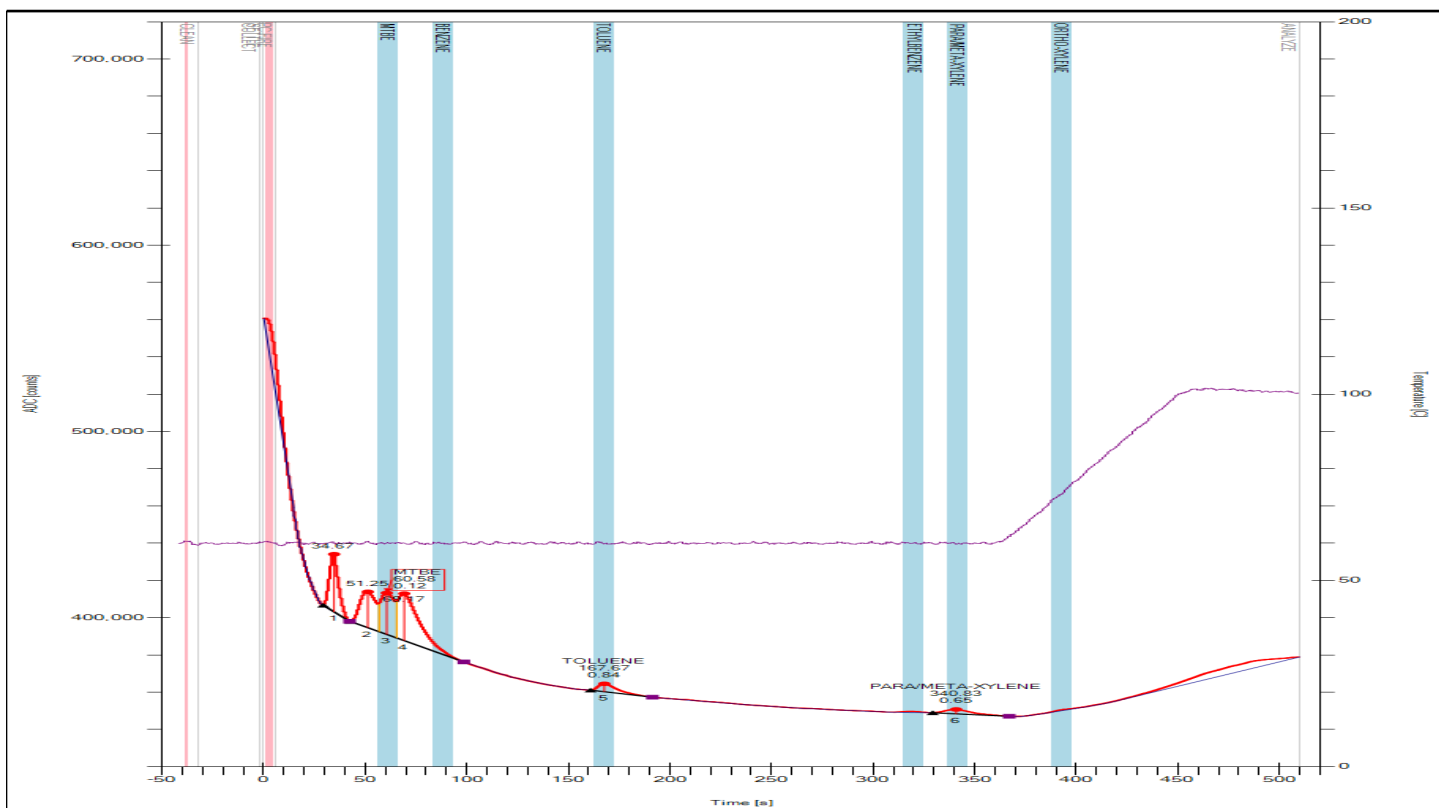
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Pump=45%, 41%

Dilution = 1.0

FSP-14D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	30986	163423		
2		51.25	19258	175736		
3	MTBE	60.58	22280	174900	0.12	0.12
4		69.17	25263	320936		
5	TOLUENE	167.67	4245	48376	0.84	0.84
6	PARA/META-XYLENE	340.83	2366	37222	0.65	0.65



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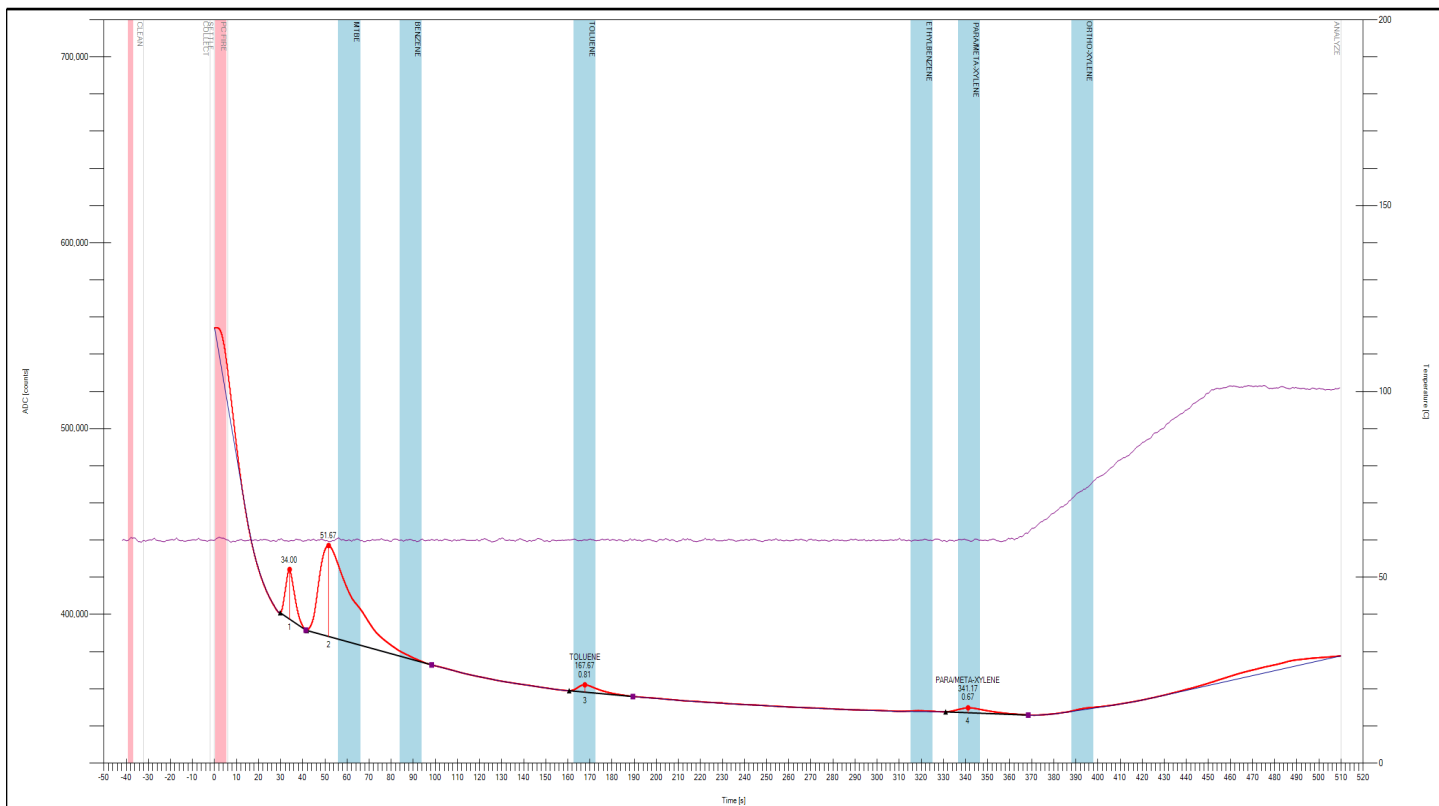
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Pump=45%, 41%

Dilution = 1.0

FSP-15C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34	26710	128524		
2		51.67	48957	890456		
3	TOLUENE	167.67	3938	44393	0.81	0.81
4	PARA/META-XYLENE	341.17	2634	42962	0.67	0.67



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1213_LOG_923.xml

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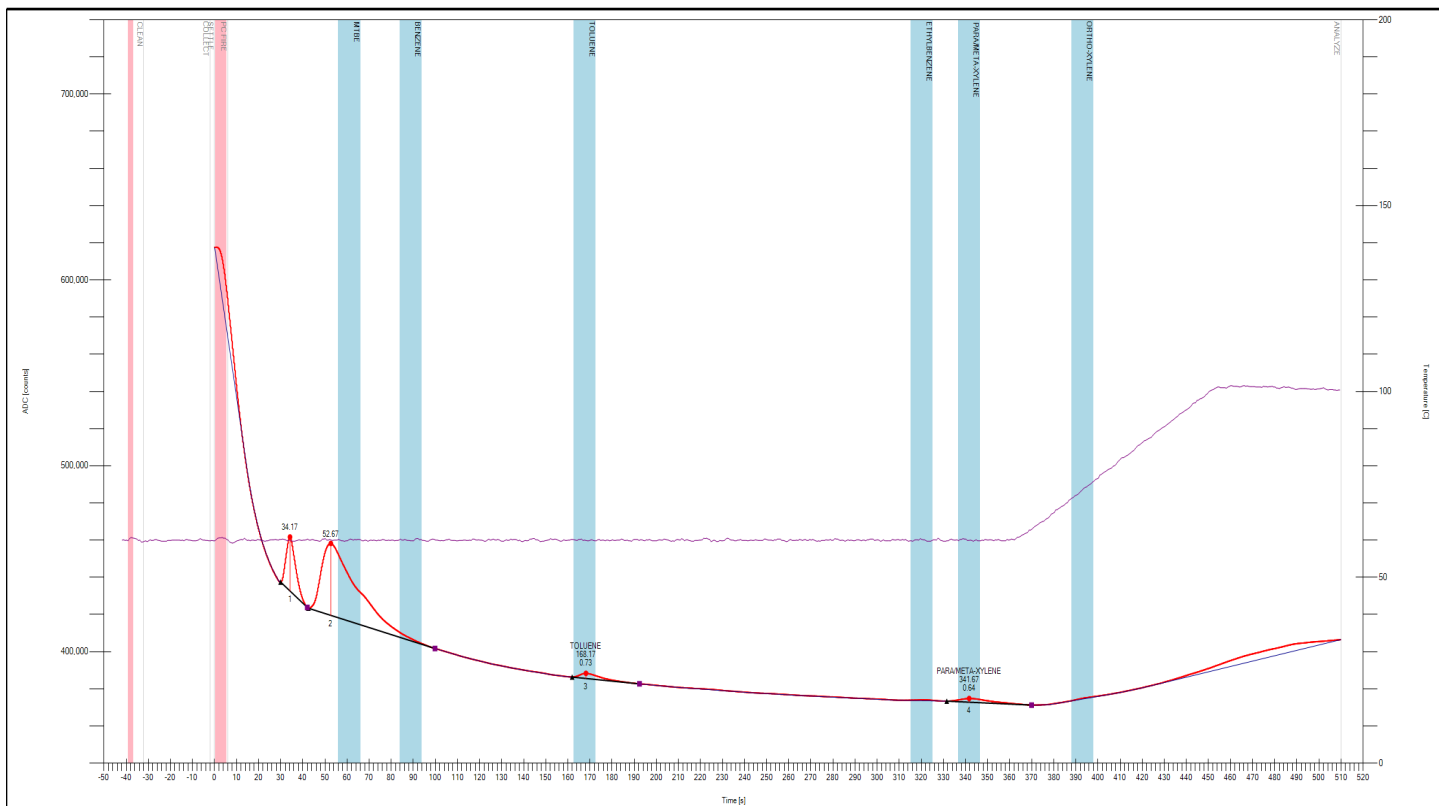
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Pump=45%, 41%

Dilution = 1.0

FSP-15D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.17	29051	147406		
2		52.67	38696	730216		
3	TOLUENE	168.17	2777	31117	0.73	0.73
4	PARA/META-XYLENE	341.67	1996	33613	0.64	0.64



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\0956_LOG_912.xml

2022-01-12 11:06:59Z

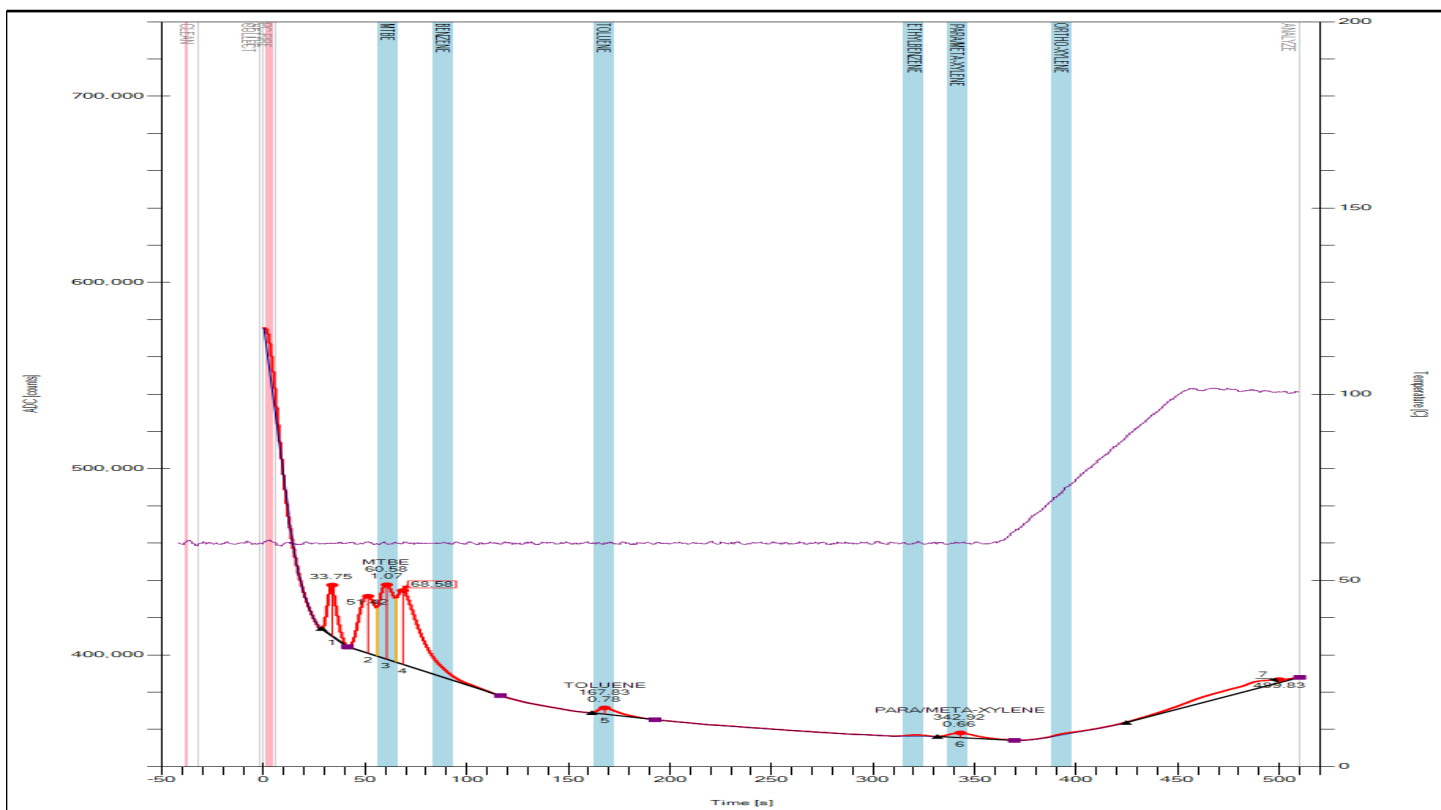
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Pump=45%, 40%

Dilution = 1.0

FSP-16

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.75	27406	145216		
2		51.42	30646	272591		
3	MTBE	60.58	39993	332097	1.07	1.07
4		68.58	39700	559033		
5	TOLUENE	167.83	3329	39772	0.78	0.78
6	PARA/META-XYLENE	342.92	2547	40900	0.66	0.66
7		499.83	1698	165149		



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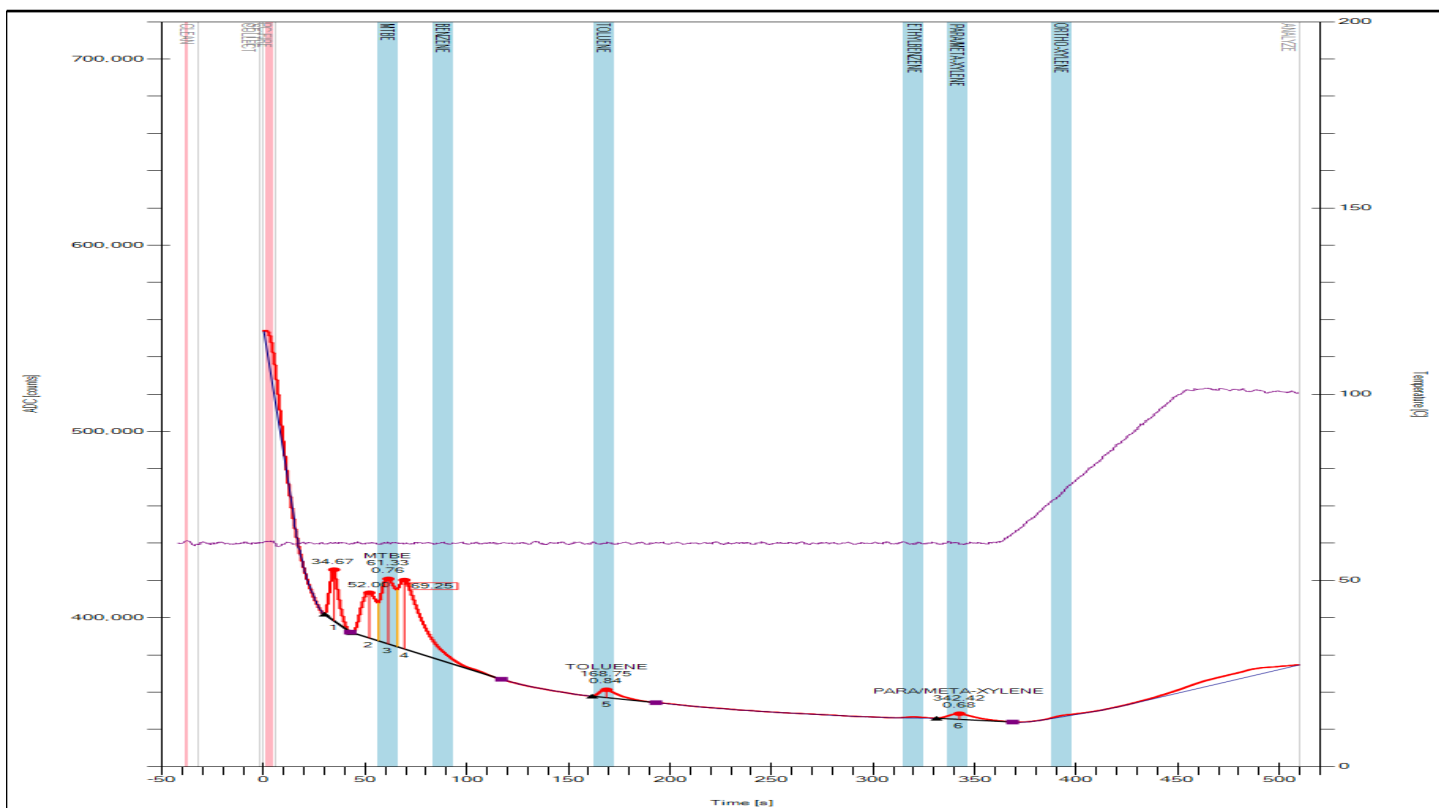
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Pump=45%, 41%

Dilution = 1.0

FSP-17A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	27510	143301		
2		52	24308	204301		
3	MTBE	61.33	34933	281996	0.76	0.76
4		69.25	36997	524111		
5	TOLUENE	168.75	4223	48124	0.84	0.84
6	PARA/META-XYLENE	342.42	3029	47490	0.68	0.68



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1257_LOG_926.xml

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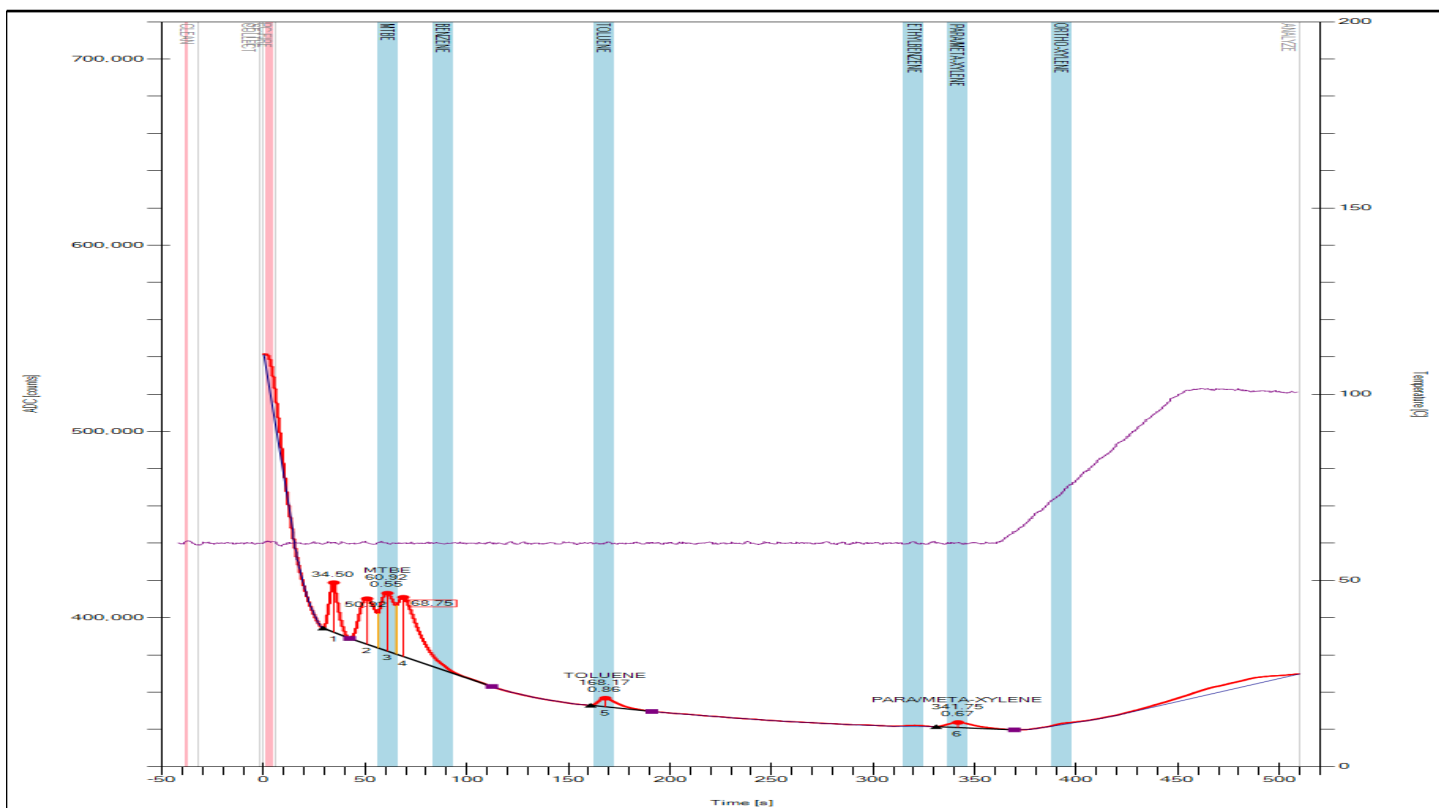
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Pump=45%, 41%

Dilution = 1.0

FSP-17B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.5	26633	139438		
2		50.92	24479	217069		
3	MTBE	60.92	31125	247447	0.55	0.55
4		68.75	31839	410133		
5	TOLUENE	168.17	4579	52136	0.86	0.86
6	PARA/META-XYLENE	341.75	2733	44231	0.67	0.67



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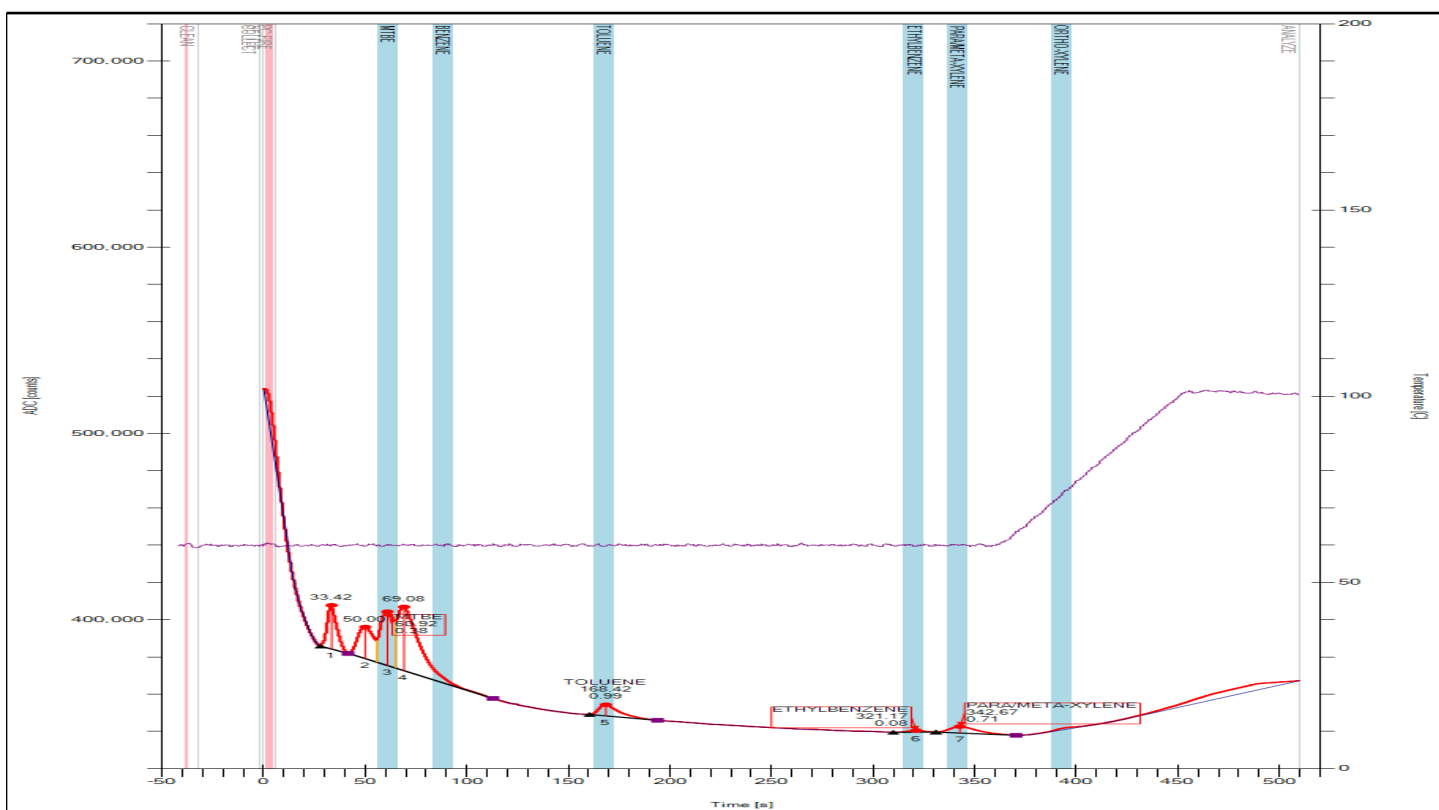
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Pump=45%, 41%

Dilution = 1.0

FSP-17C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.42	23488	130470		
2		50	16961	153106		
3	MTBE	60.92	28930	218458	0.38	0.38
4		69.08	34260	451448		
5	TOLUENE	168.42	5982	70462	0.99	0.99
6	ETHYLBENZENE	321.17	905	8849	0.08	0.08
7	PARA/META-XYLENE	342.67	3498	55708	0.71	0.71



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1521_LOG_935.xml

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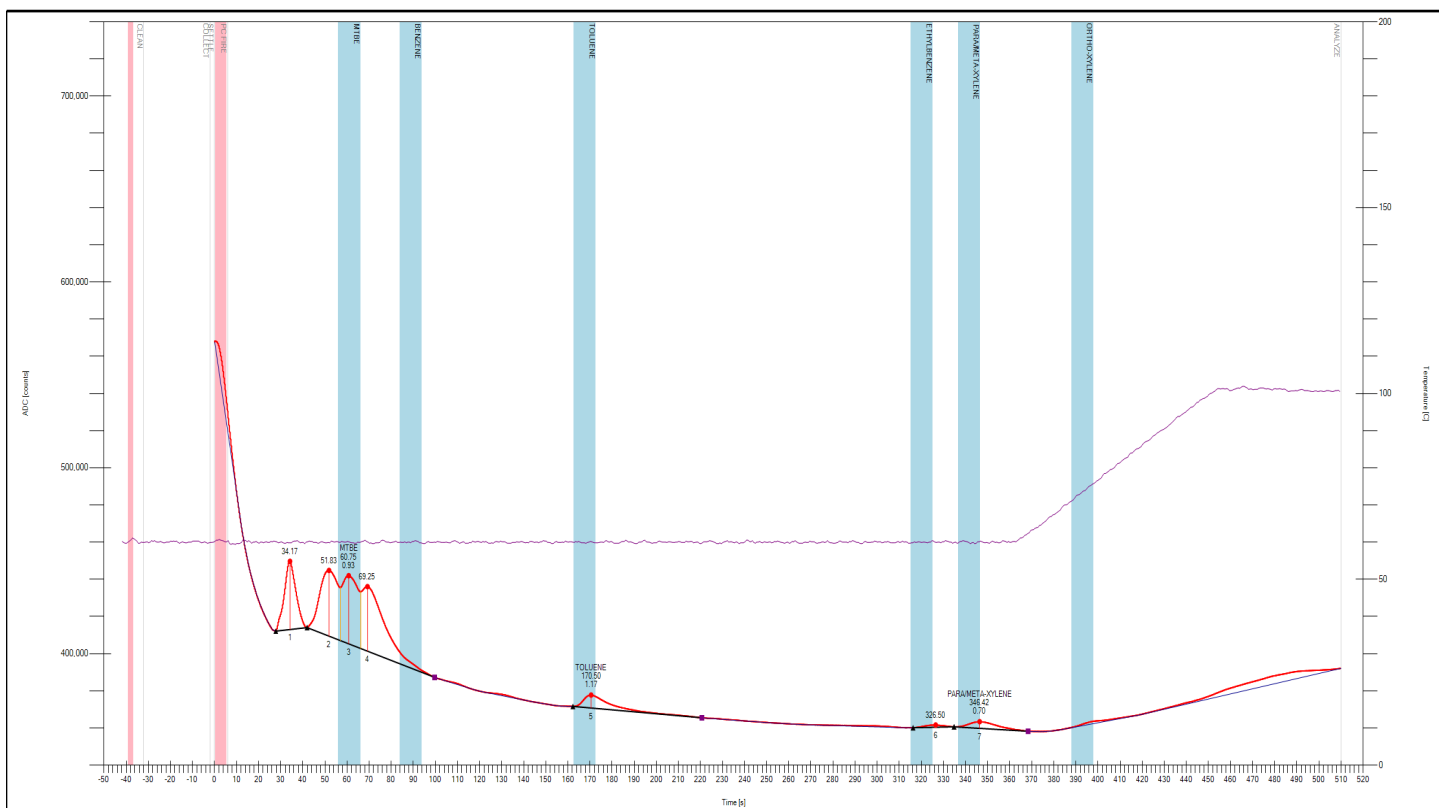
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Pump=45%, 41%

Dilution = 1.0

FSP-17D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.17	36711	224282		
2		51.83	35358	337926		
3	MTBE	60.75	36663	308755	0.93	0.93
4		69.25	34746	434464		
5	TOLUENE	170.5	6972	98502	1.17	1.17
6		326.5	1188	11910		
7	PARAMETA-XYLENE	346.42	3599	53990	0.70	0.7



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1054_LOG_917.xml

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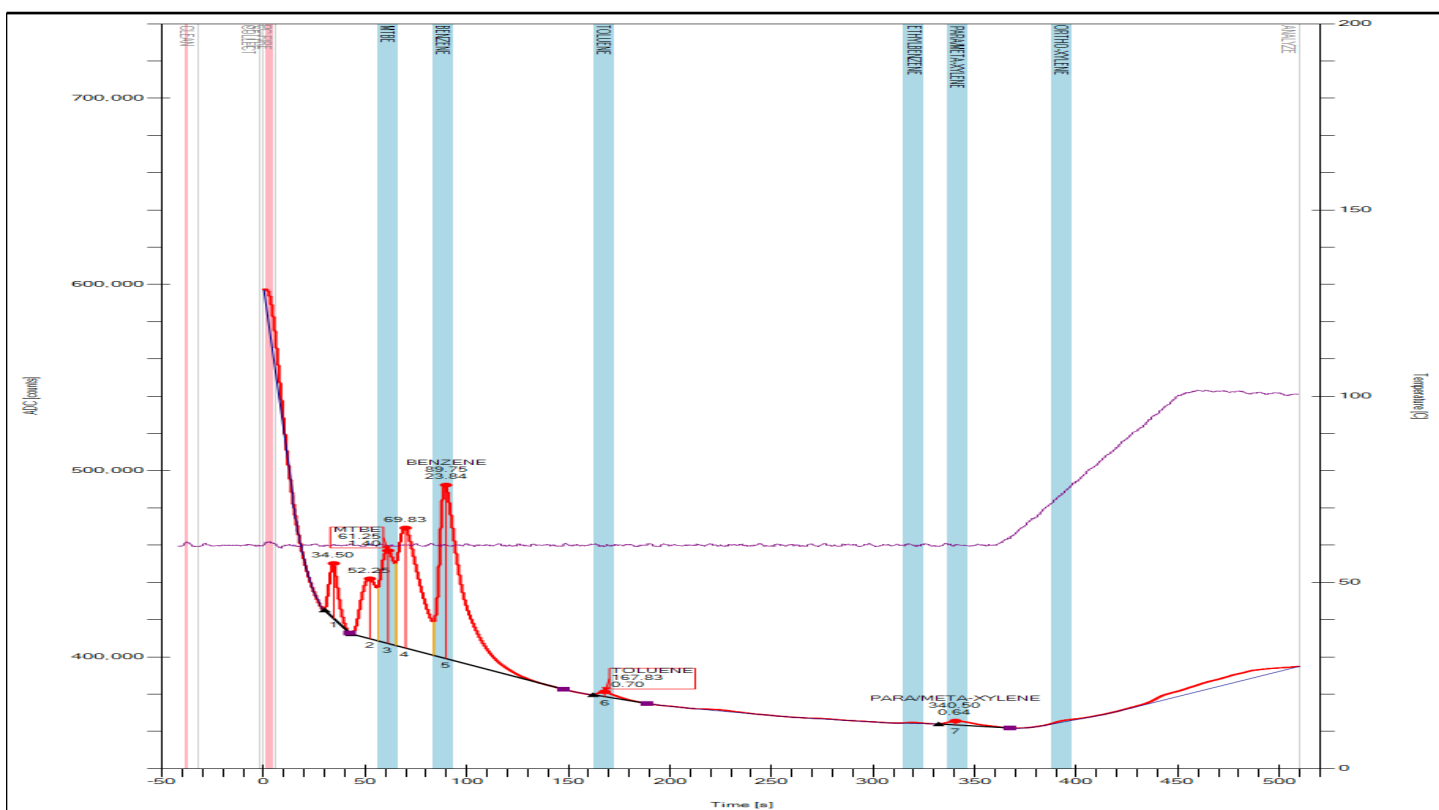
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Pump=45%, 41%

Dilution = 1.0

FSP-18

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.5	29554	153458		
2		52.25	32222	265212		
3	MTBE	61.25	49884	386719	1.40	1.4
4		69.83	64504	815785		
5	BENZENE	89.75	93215	1232780	23.84	23.84
6	TOLUENE	167.83	2584	27210	0.70	0.7
7	PARA/META-XYLENE	340.5	2067	34767	0.64	0.64



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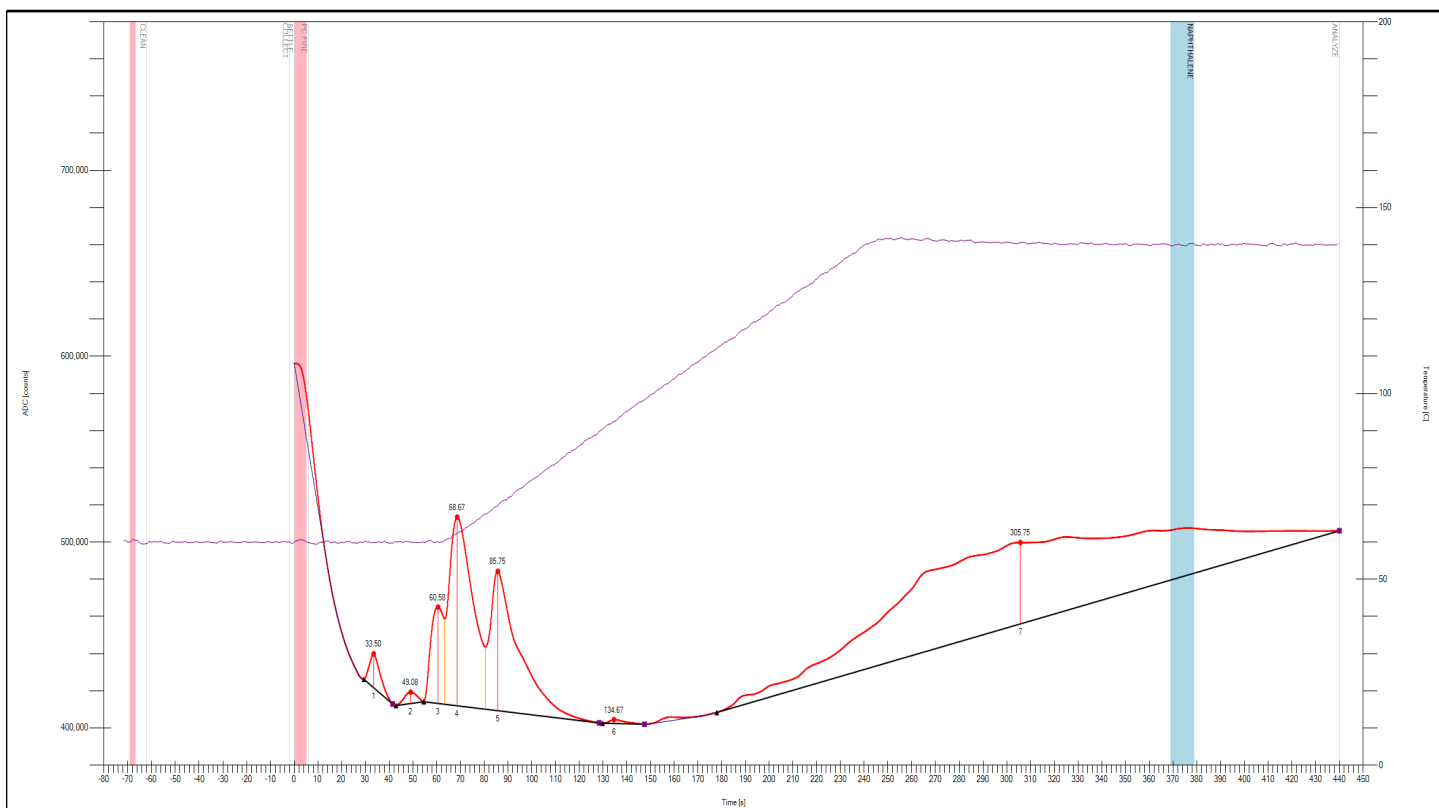
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Pump=45%, 43%

Dilution = 1.0

FSP-18 NAPH

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.5	18269	98562		
2		49.08	6120	37416		
3		60.58	51893	316215		
4		68.67	101577	1176740		
5		85.75	75051	1057922		
6		134.67	2068	15640		
7		305.75	43805	6172365		



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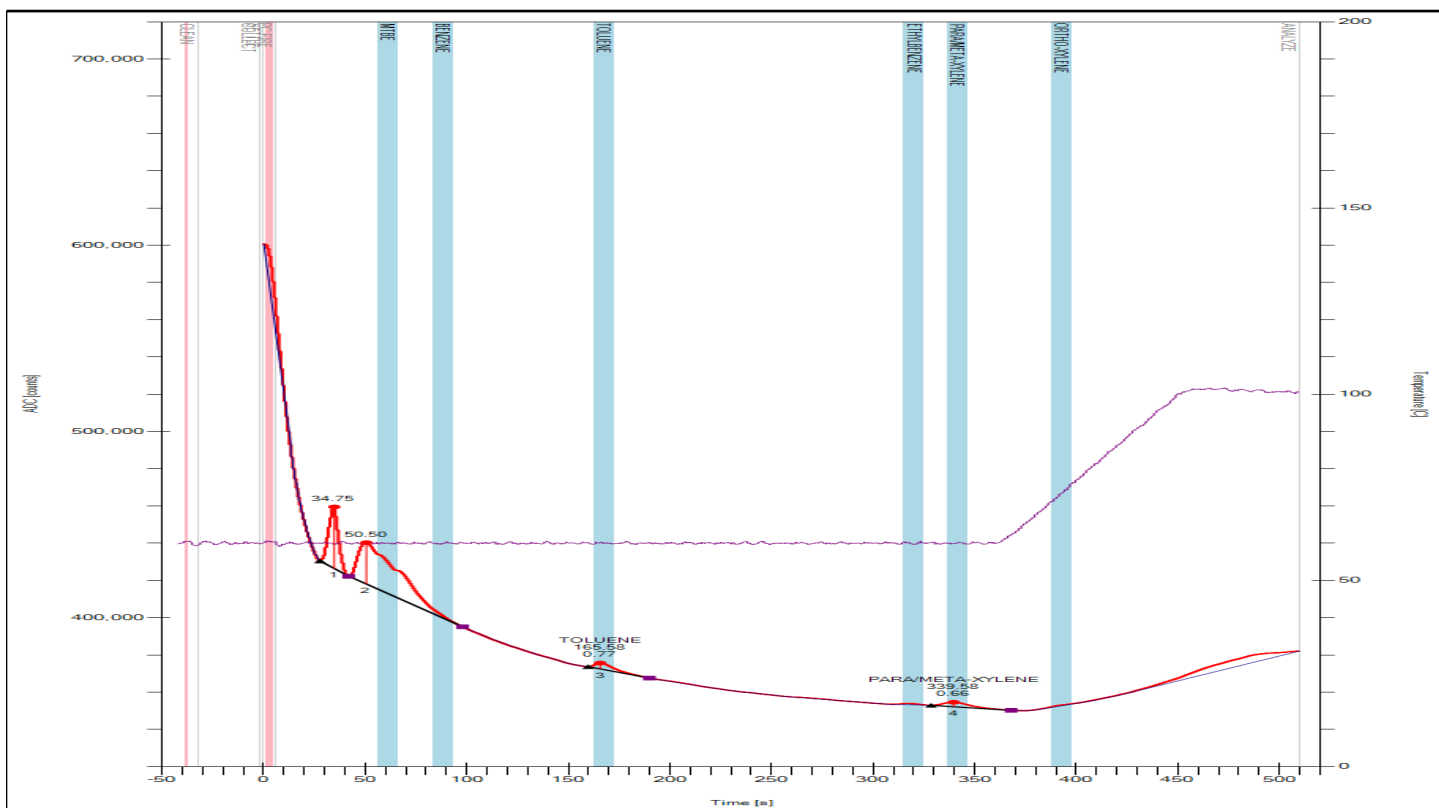
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Pump=45%, 41%

Dilution = 1.0

FSP-19A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.75	33091	189217		
2		50.5	22225	552204		
3	TOLUENE	165.58	3149	38172	0.77	0.77
4	PARA/META-XYLENE	339.58	2432	39123	0.66	0.66



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1328_LOG_927.xml

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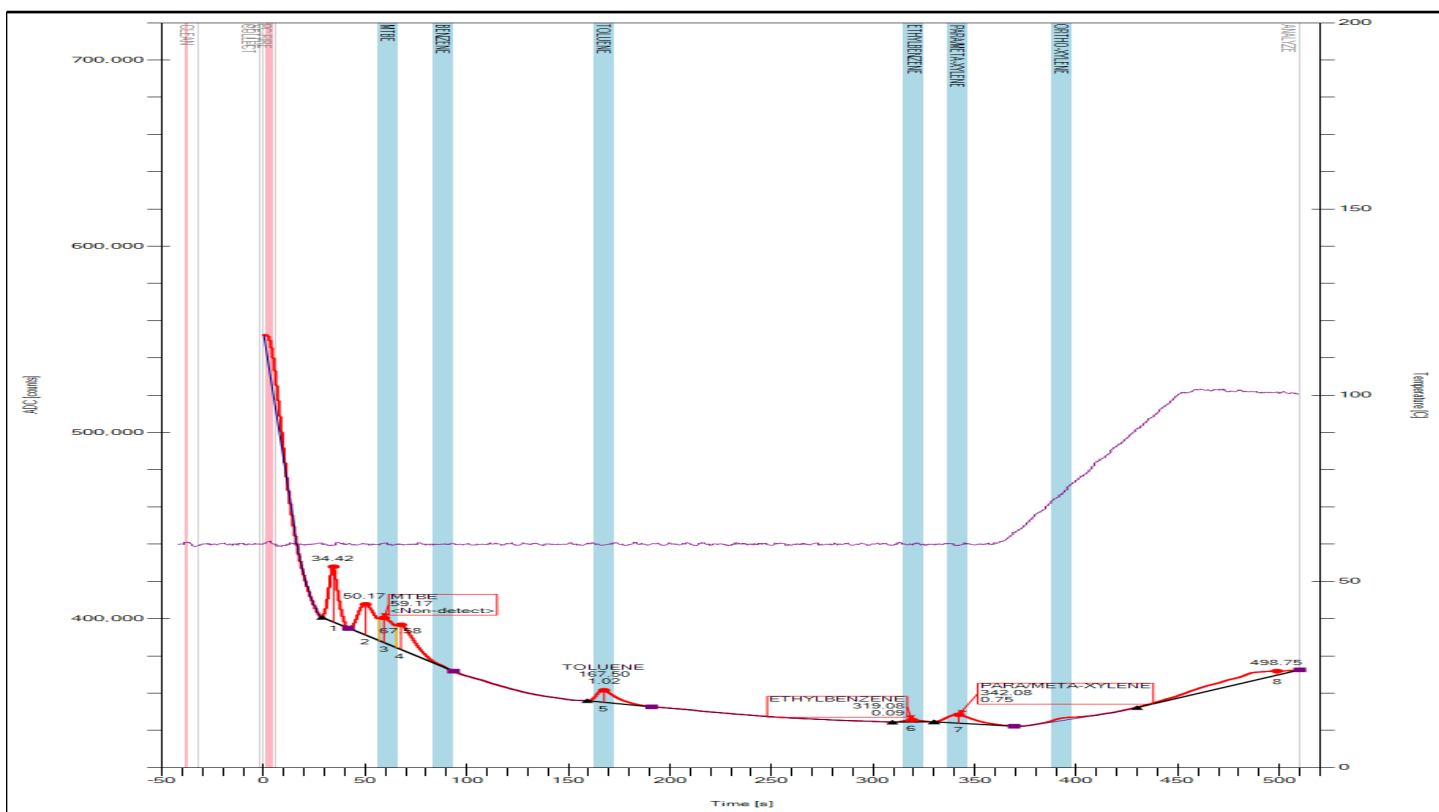
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Pump=45%, 42%

Dilution = 1.0

FSP-19B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.42	29756	160034		
2		50.17	16520	160531		
3	MTBE	59.17	13241	107700	<Non-detect>	
4		67.58	13314	141331		
5	TOLUENE	167.5	6474	75125	1.02	1.02
6	ETHYLBENZENE	319.08	1111	10877	0.09	0.09
7	PARA/META-XYLENE	342.08	4538	72276	0.75	0.75
8		498.75	2198	165758		



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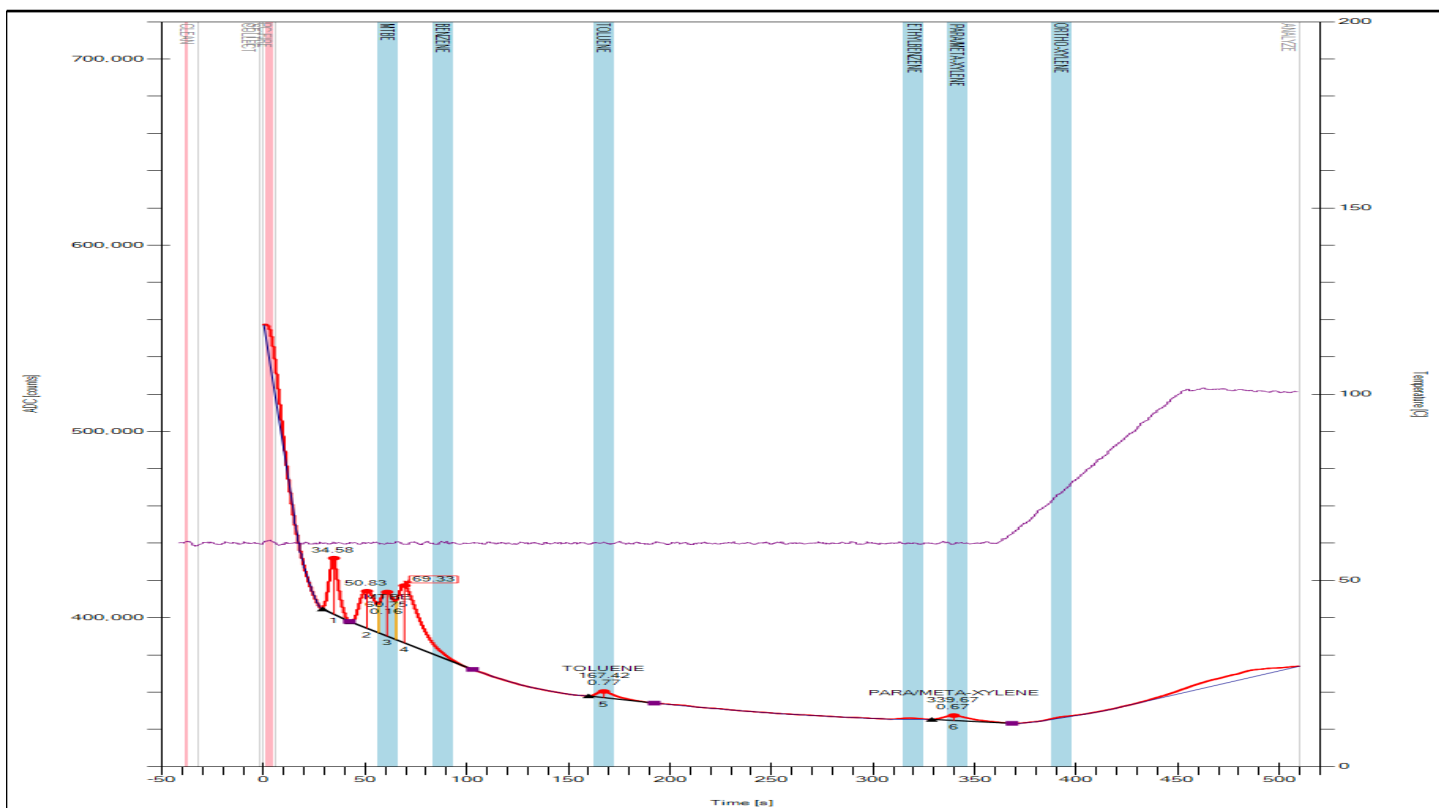
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Pump=45%, 41%

Dilution = 1.0

FSP-19C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.58	30121	163896		
2		50.83	19892	178077		
3	MTBE	60.75	23699	181963	0.16	0.16
4		69.33	30797	398072		
5	TOLUENE	167.42	3308	37714	0.77	0.77
6	PARA/META-XYLENE	339.67	2648	42831	0.67	0.67



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1444_LOG_932.xml

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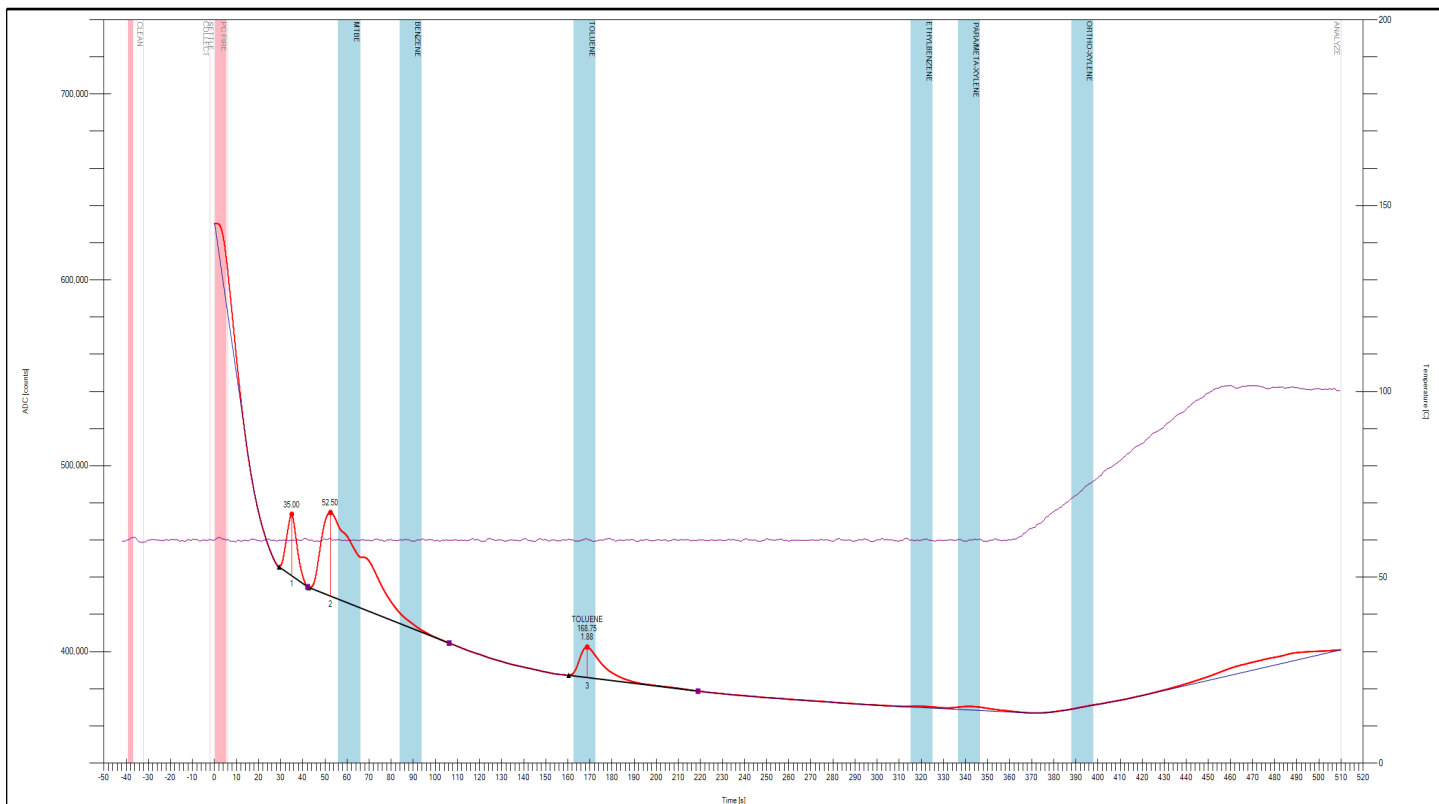
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 40%

Dilution = 1.0

FSP-19D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35	33169	180877		
2		52.5	45010	1059780		
3	TOLUENE	168.75	16393	204135	1.88	1.88



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1024_LOG_914.xml

2022-01-12 09:44:19Z

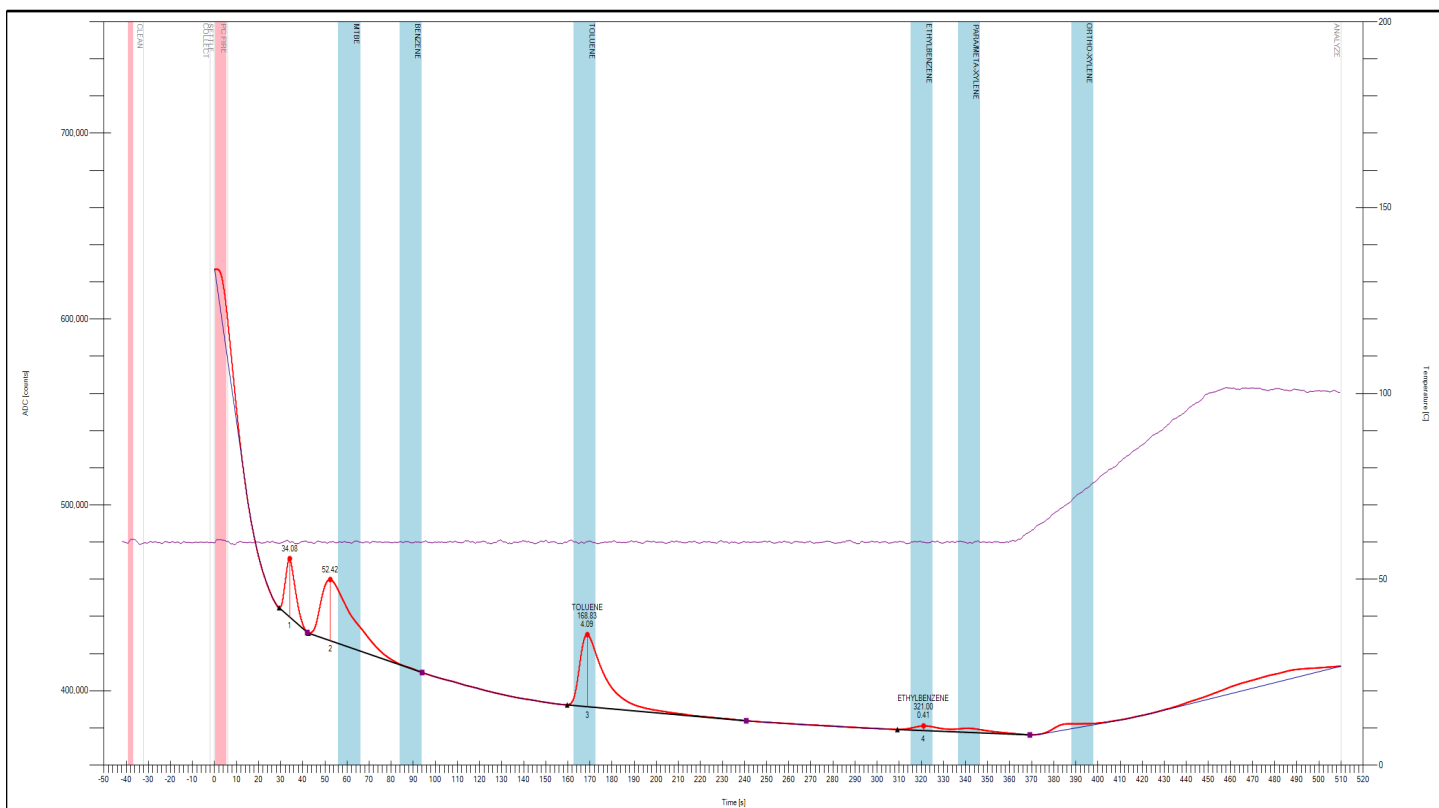
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Pump=45%, 41%

Dilution = 1.0

FSP-20

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.08	31487	165064		
2		52.42	32935	553498		
3	TOLUENE	168.83	38778	526643	4.09	4.09
4	ETHYLBENZENE	321	2515	75653	0.41	0.41



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\0944_LOG_911.xml

2022-01-12 12:44:36Z

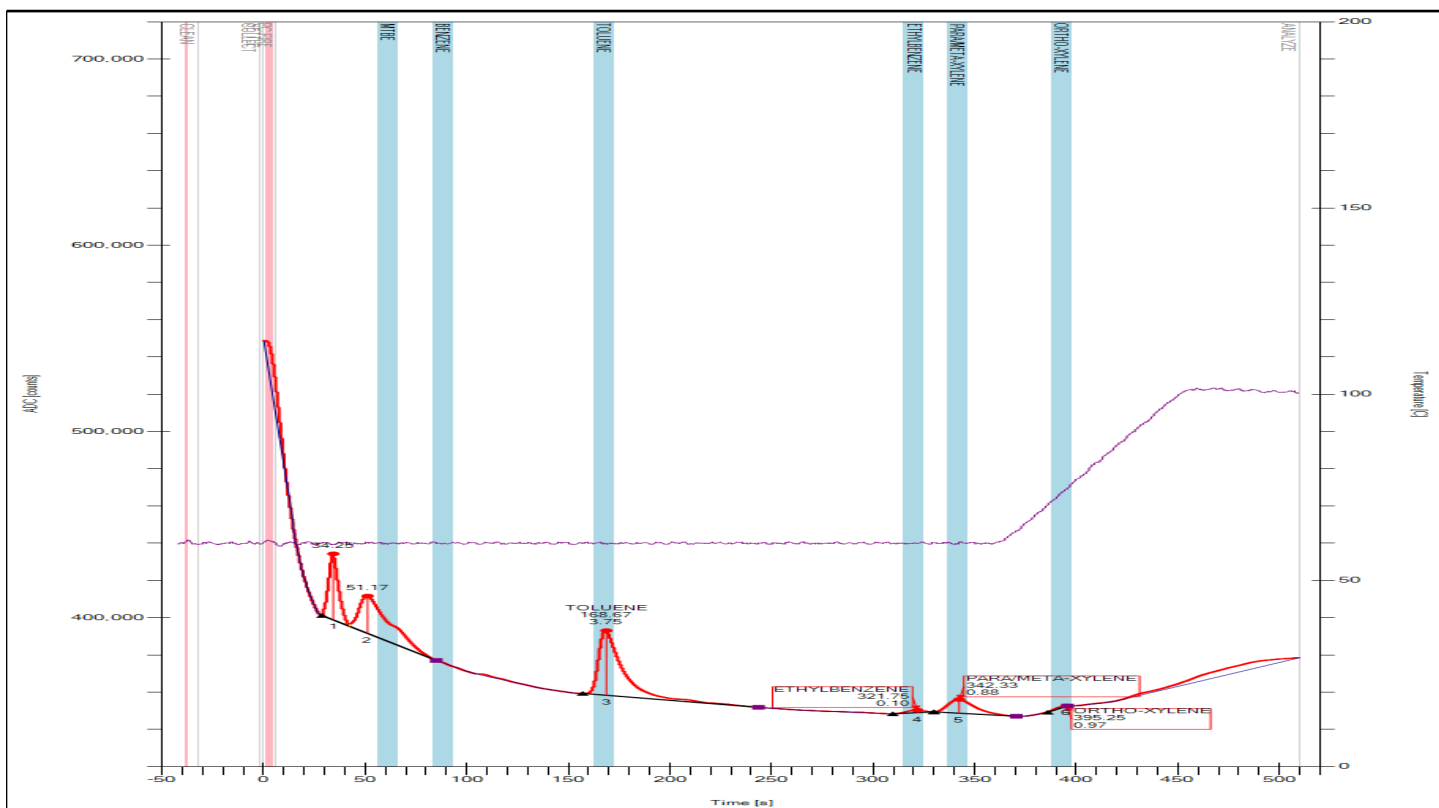
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Pump=45%, 41%

Dilution = 1.0

FSP-21A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.25	35511	204863		
2		51.17	20105	363046		
3	TOLUENE	168.67	34729	478392	3.75	3.75
4	ETHYLBENZENE	321.75	1294	12810	0.10	0.1
5	PARA/META-XYLENE	342.33	7356	114925	0.88	0.88
6	ORTHO-XYLENE	395.25	185	3435	0.97	0.97



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1244_LOG_925.xml

2022-01-12 14:31:06Z

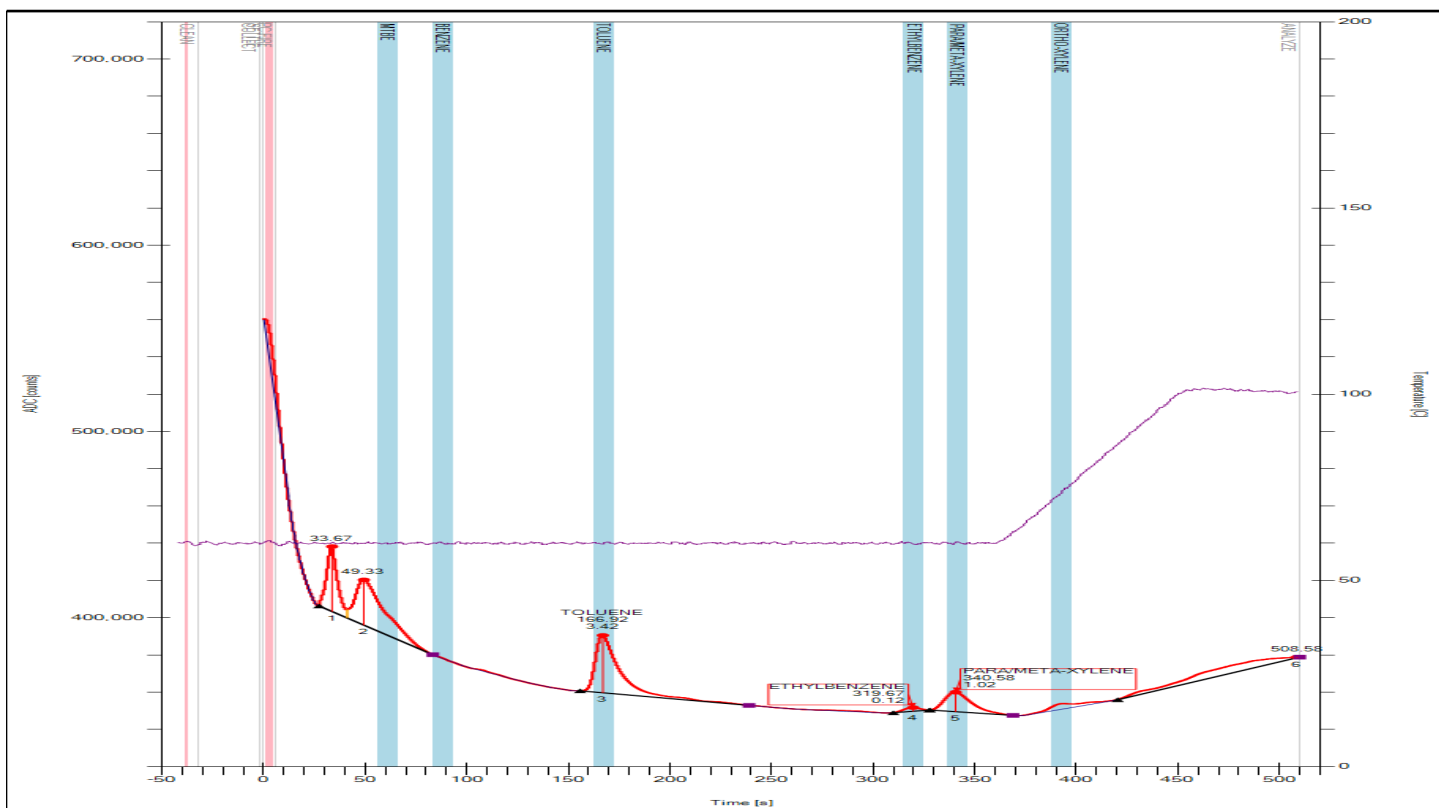
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-21B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.67	34900	220960		
2		49.33	24319	422207		
3	TOLUENE	166.92	30821	430839	3.42	3.42
4	ETHYLBENZENE	319.67	1943	18089	0.12	0.12
5	PARA/META-XYLENE	340.58	10473	163640	1.02	1.02
6		508.58	336	212816		



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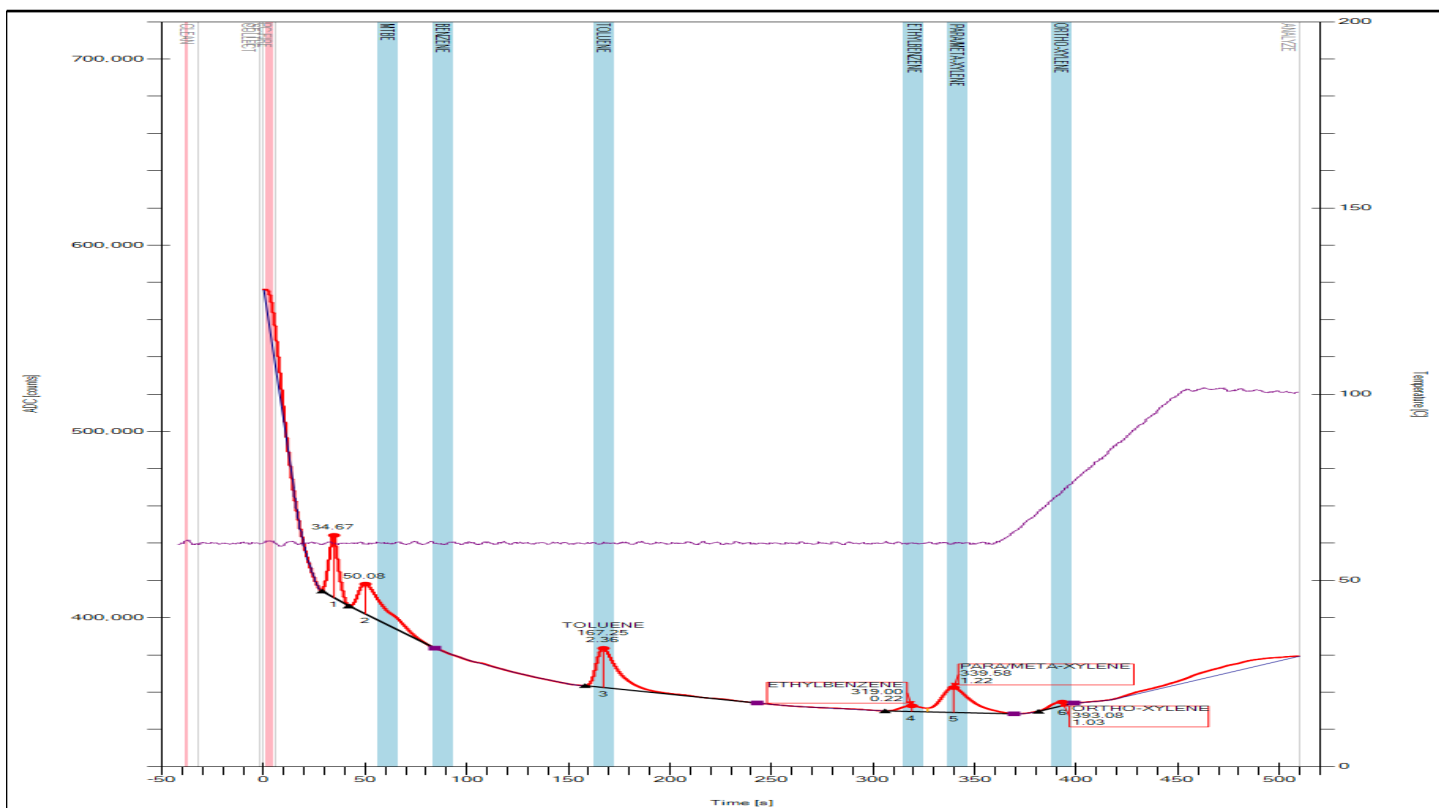
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Pump=45%, 42%

Dilution = 1.0

FSP-21C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.67	33519	185476		
2		50.08	16090	267074		
3	TOLUENE	167.25	21043	275516	2.36	2.36
4	ETHYLBENZENE	319	3057	37192	0.22	0.22
5	PARA/META-XYLENE	339.58	13348	231956	1.22	1.22
6	ORTHO-XYLENE	393.08	1973	19901	1.03	1.03



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1417_LOG_930.xml

2022-01-12 10:08:39Z

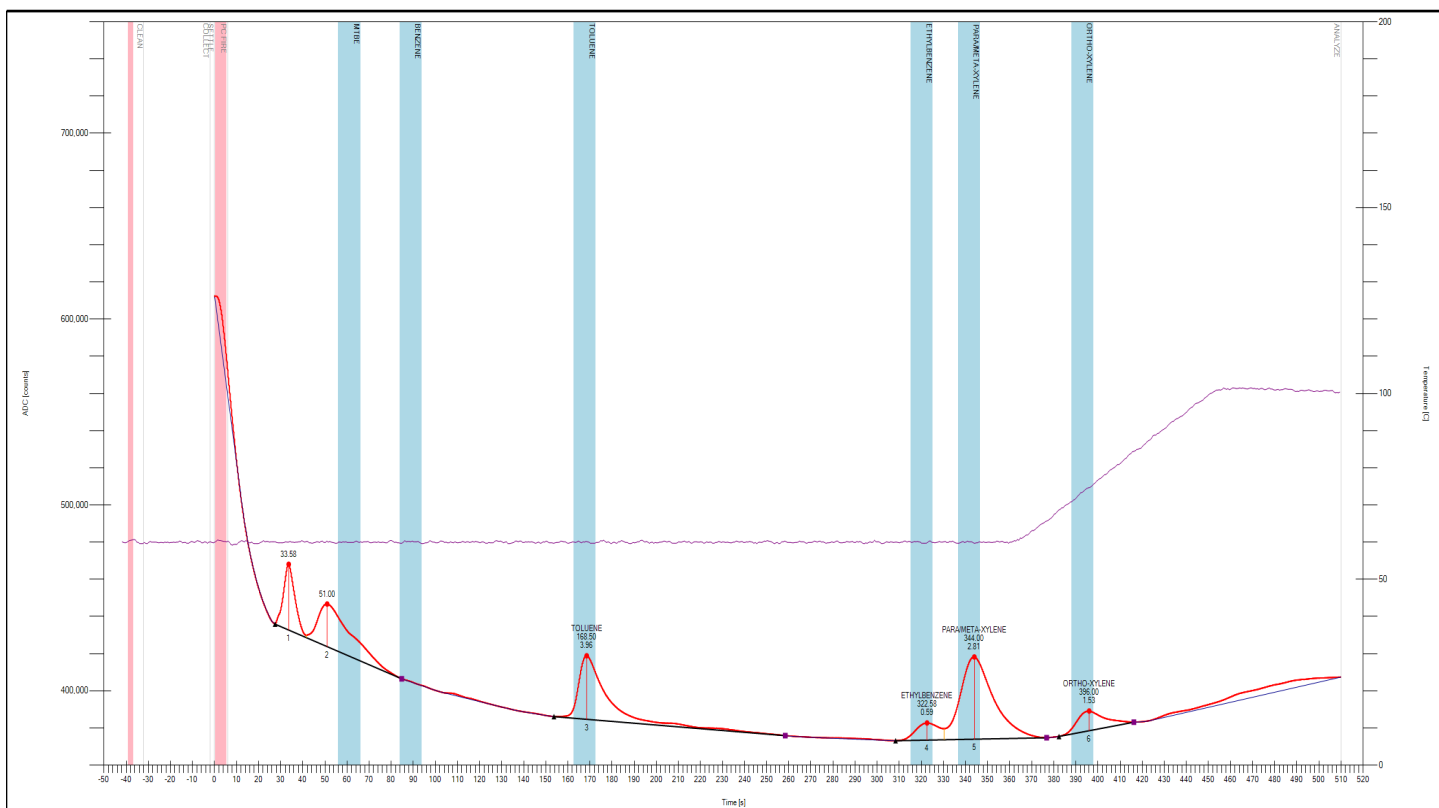
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 40%

Dilution = 1.0

FSP-21D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.58	35396	213099		
2		51	22919	412889		
3	TOLUENE	168.5	34194	508480	3.96	3.96
4	ETHYLBENZENE	322.58	9237	113374	0.59	0.59
5	PARA/META-XYLENE	344	44246	771048	2.81	2.81
6	ORTHO-XYLENE	396	10595	153377	1.53	1.53



Red: C:\Users\cooldesk\Documents\EllvinData\20220112\1008_LOG_913.xml

2022-01-13 10:06:15Z

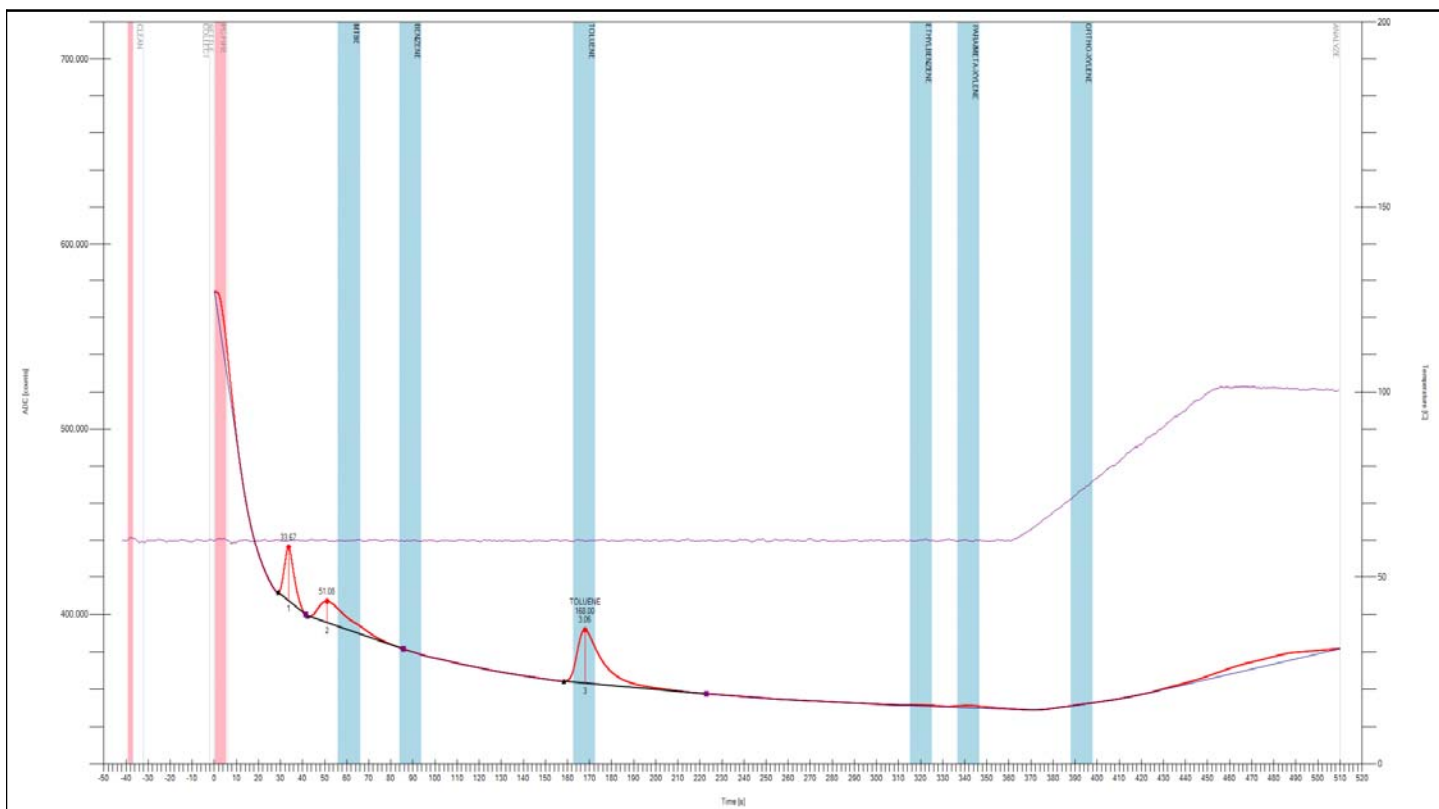
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-22

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.67	28989	149127		
2		51.08	11451	189875		
3	TOLUENE	168	28531	377890	3.06	3.06



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1006_LOG_946.xml

2022-01-13 10:22:13Z

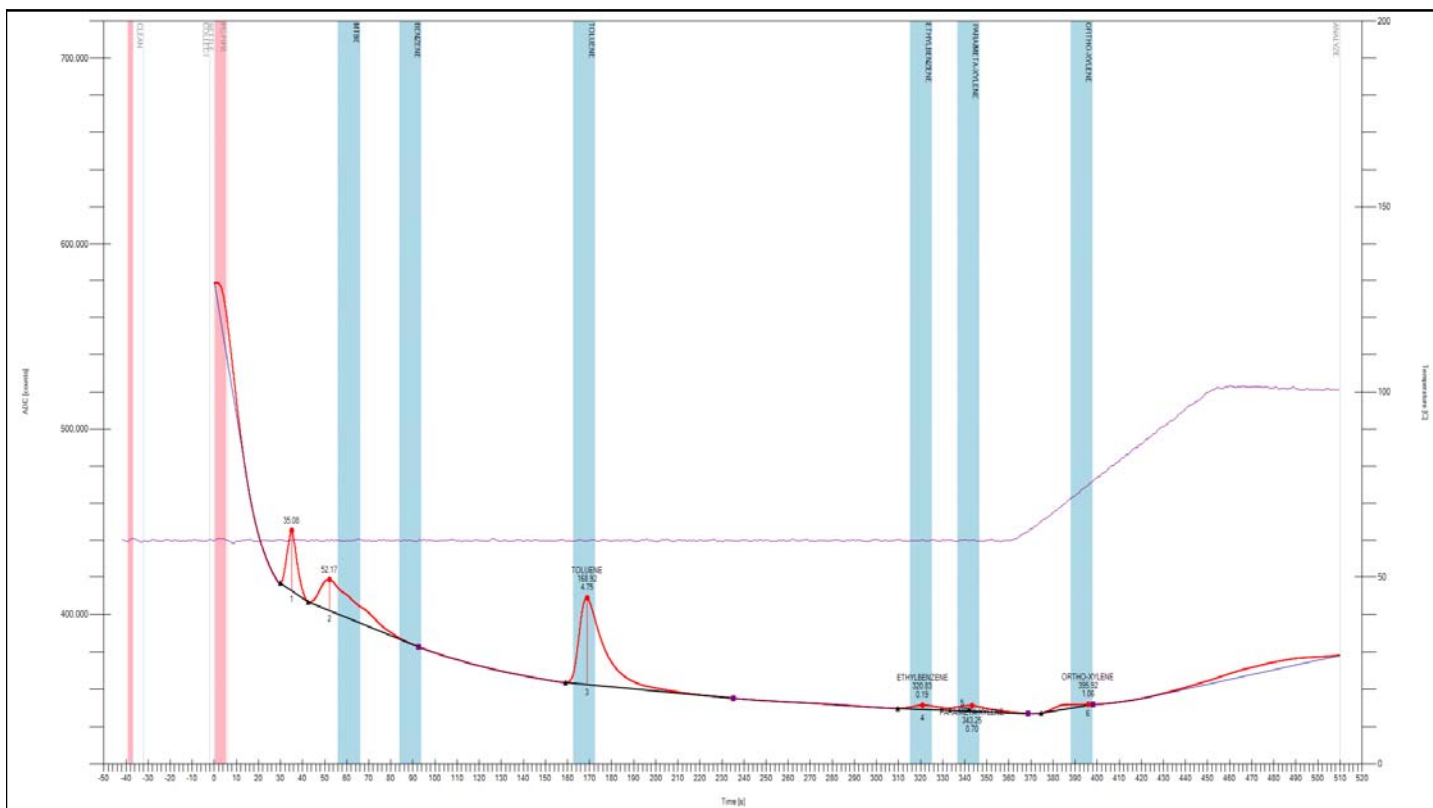
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-23

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.08	32766	170053		
2		52.17	16611	333131		
3	TOLUENE	168.92	46477	621965	4.75	4.75
4	ETHYLBENZENE	320.83	2242	31601	0.19	0.19
5	PARA/META-XYLENE	343.25	3084	54977	0.70	0.7
6	ORTHO-XYLENE	395.92	516	29106	1.06	1.06



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1022_LOG_947.xml

2022-01-13 11:11:11Z

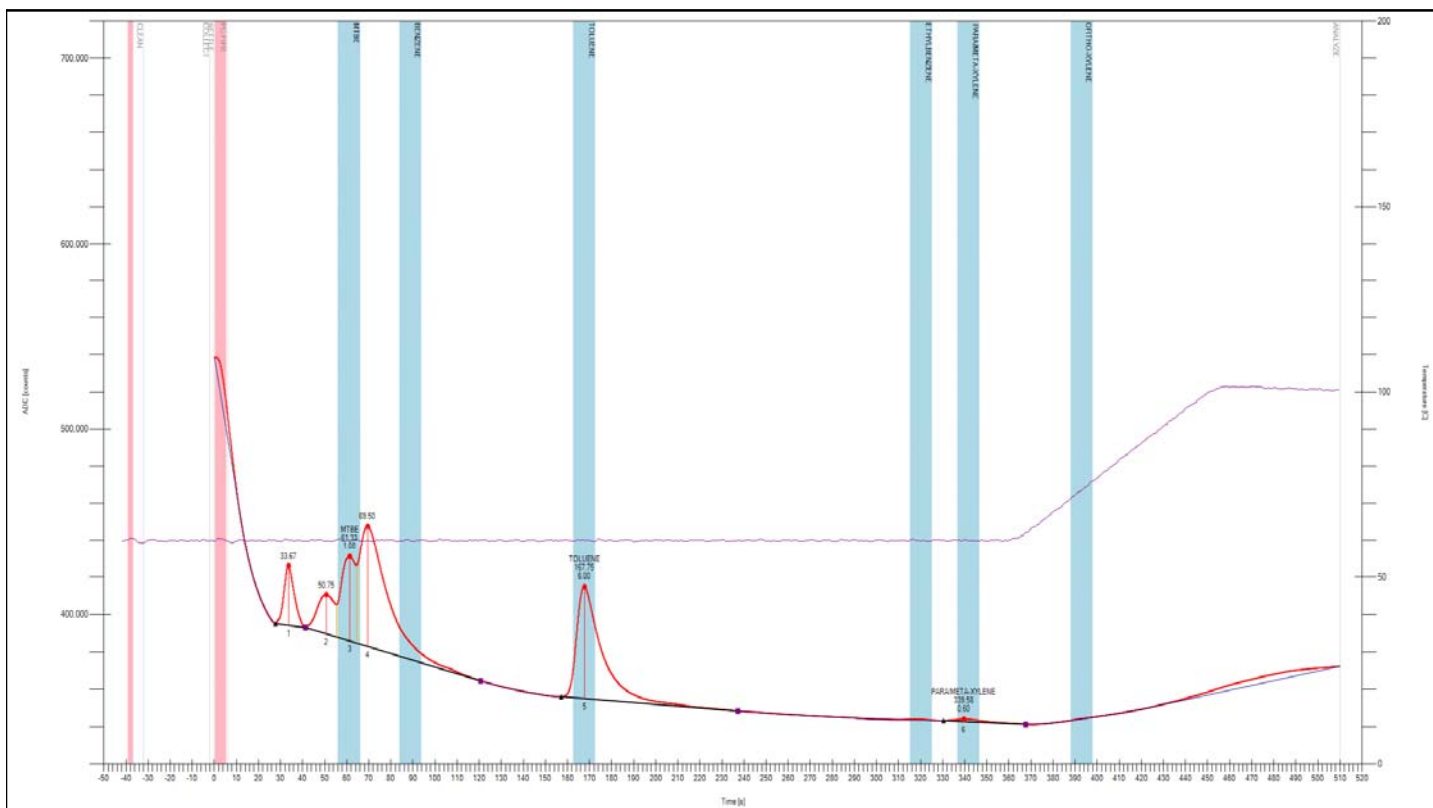
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-24A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.67	31900	172237		
2		50.75	20975	186846		
3	MTBE	61.33	45394	335139	1.08	1.08
4		69.5	64808	978765		
5	TOLUENE	167.75	59860	798512	6.00	6
6	PARA/META-XYLENE	339.58	1324	21087	0.60	0.6



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1111_LOG_949.xml

2022-01-13 11:29:32Z

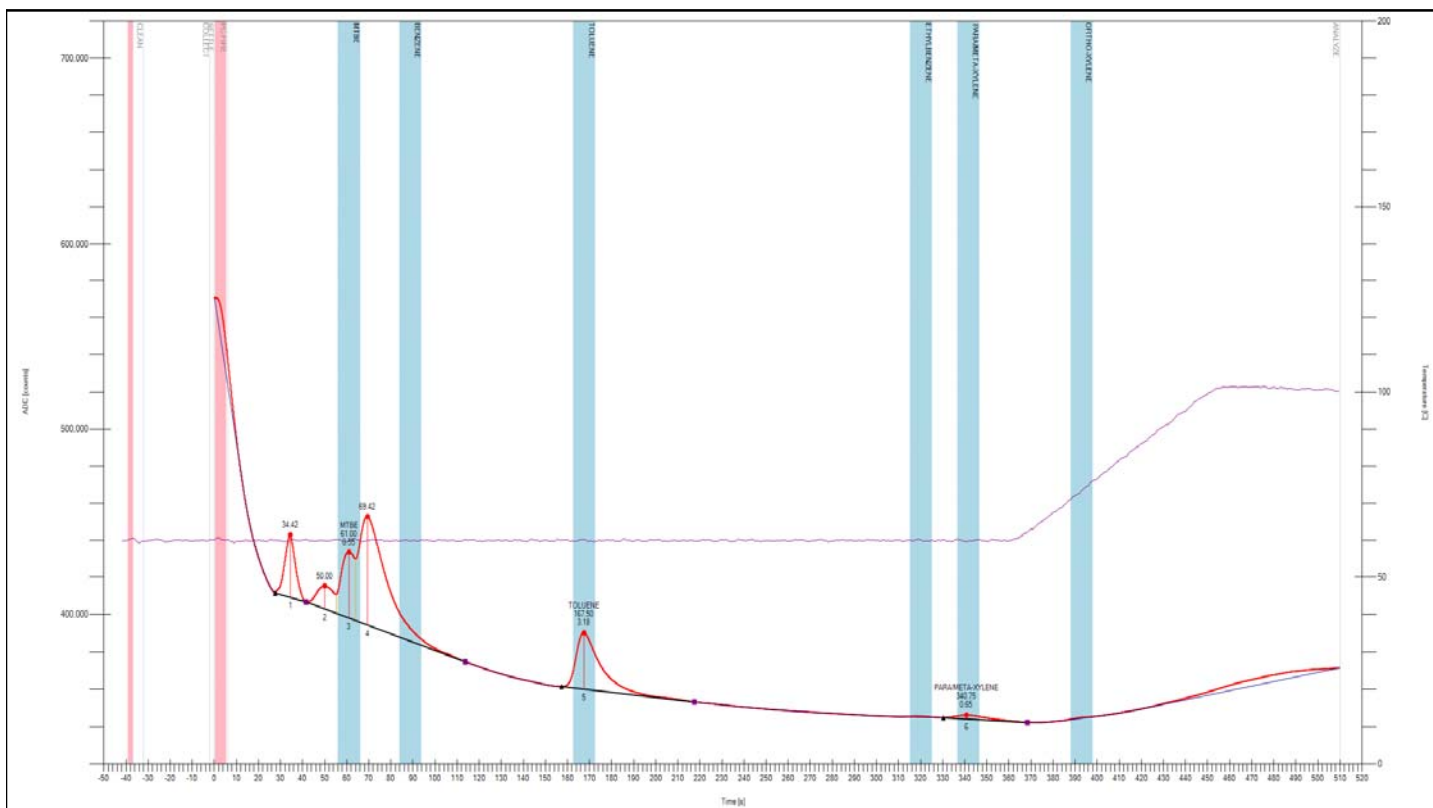
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-24B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.42	33967	188246		
2		50	12343	108936		
3	MTBE	61	35305	246050	0.55	0.55
4		69.42	58578	852740		
5	TOLUENE	167.5	30208	394781	3.18	3.18
6	PARA/META-XYLENE	340.75	2179	37039	0.65	0.65



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1129_LOG_950.xml

2022-01-13 12:06:32Z

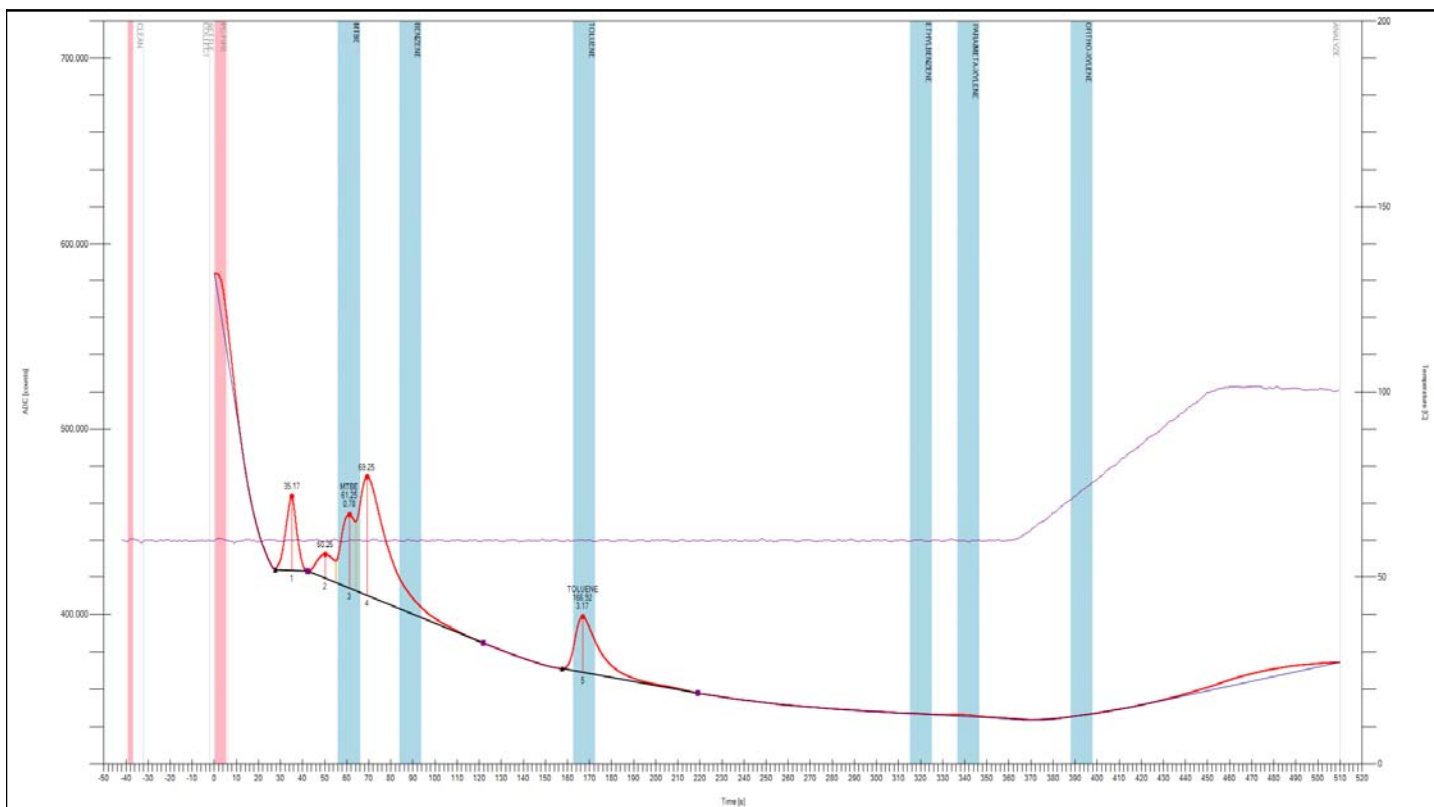
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-24C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.17	40317	233247		
2		50.25	12832	111385		
3	MTBE	61.25	39849	284732	0.78	0.78
4		69.25	64065	988653		
5	TOLUENE	166.92	29749	393397	3.17	3.17



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1206_LOG_951.xml

2022-01-13 12:37:43Z

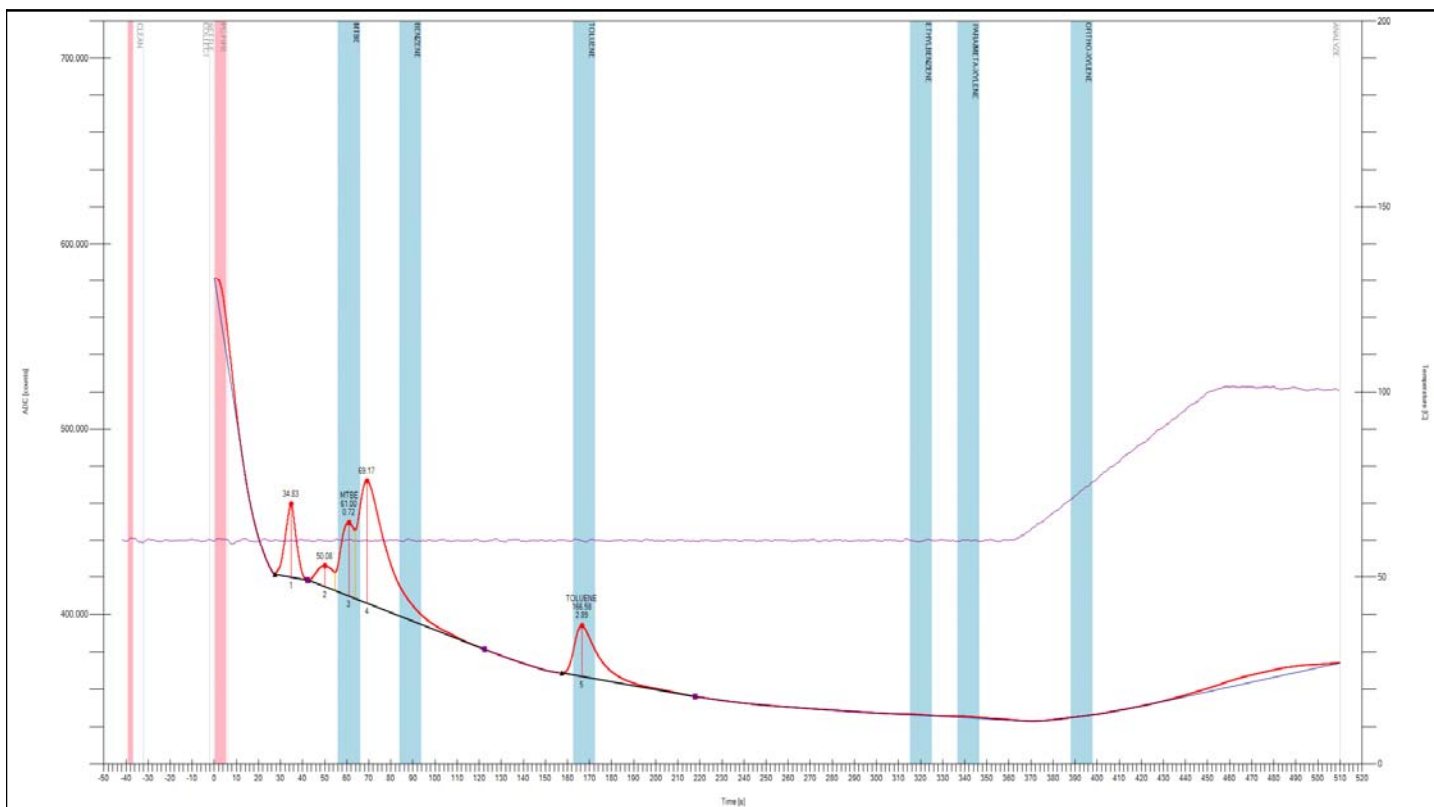
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-24D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.83	39811	226902		
2		50.08	11188	94591		
3	MTBE	61	39779	274962	0.72	0.72
4		69.17	66025	1016884		
5	TOLUENE	166.58	27199	353392	2.89	2.89



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1237_LOG_952.xml

2022-01-13 12:55:11Z

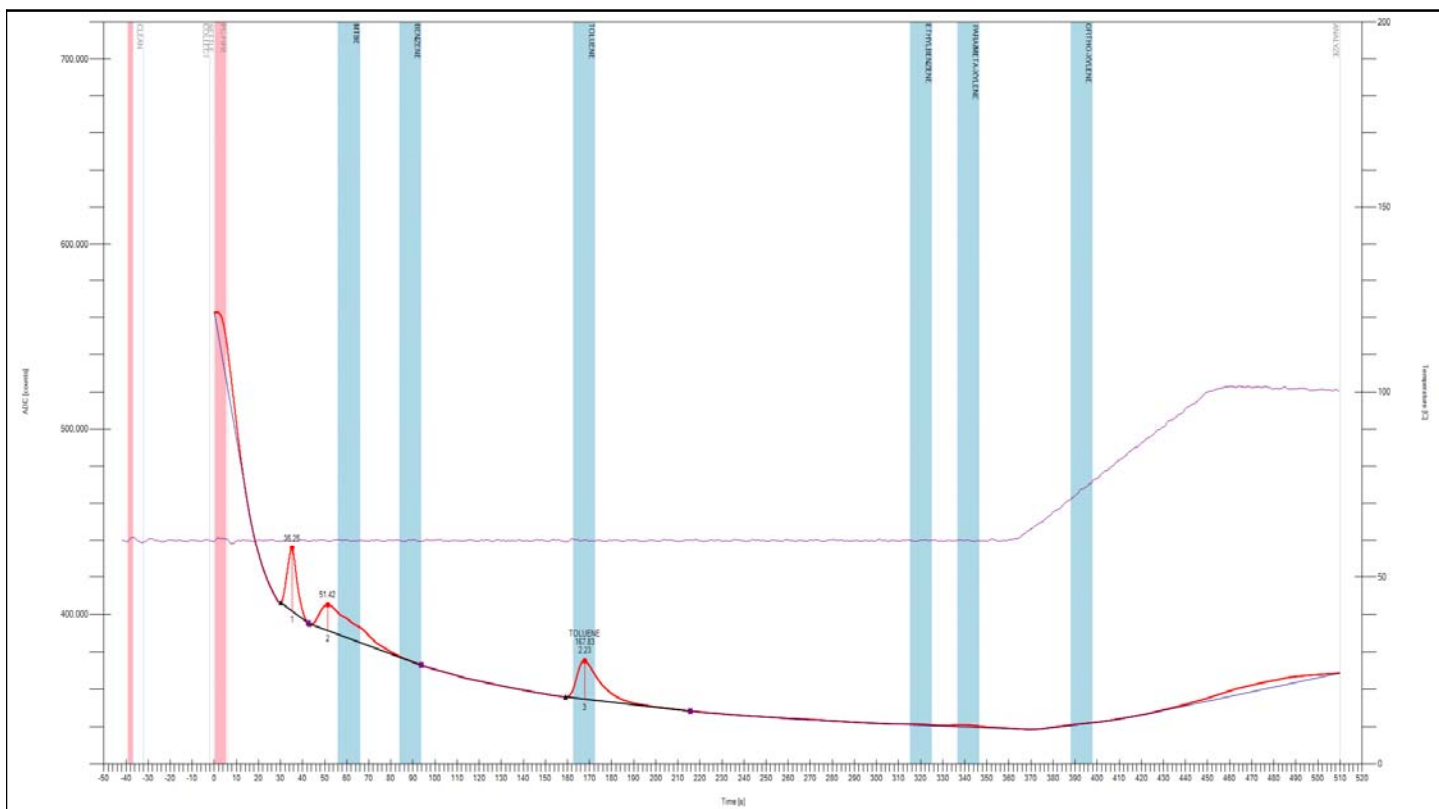
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-25

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.25	34070	175017		
2		51.42	13848	274475		
3	TOLUENE	167.83	20505	255314	2.23	2.23



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1255_LOG_953.xml

2022-01-13 13:20:25Z

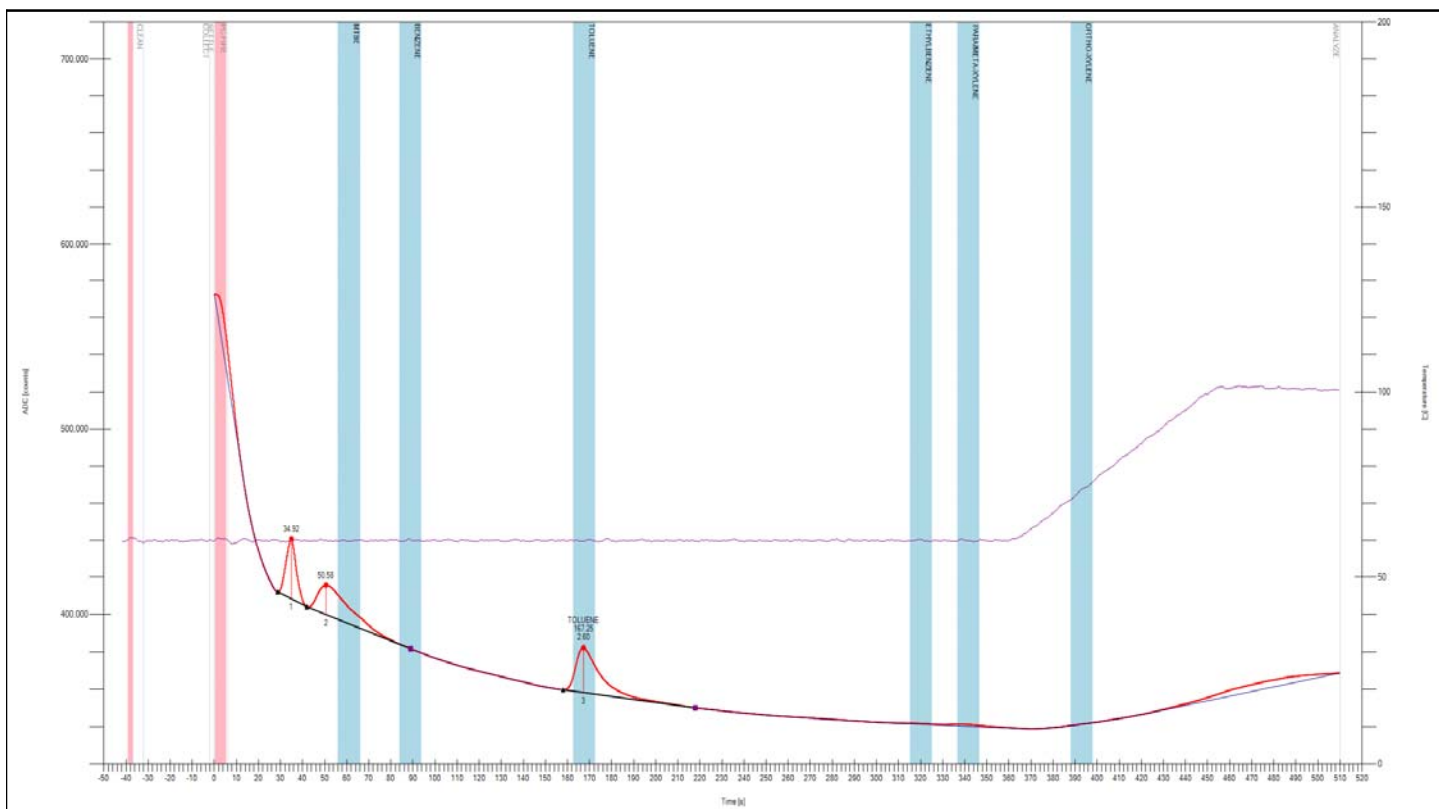
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-26

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.92	32622	174212		
2		50.58	15785	273999		
3	TOLUENE	167.25	24013	310886	2.60	2.6



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1320_LOG_954.xml

2022-01-13 14:03:08Z

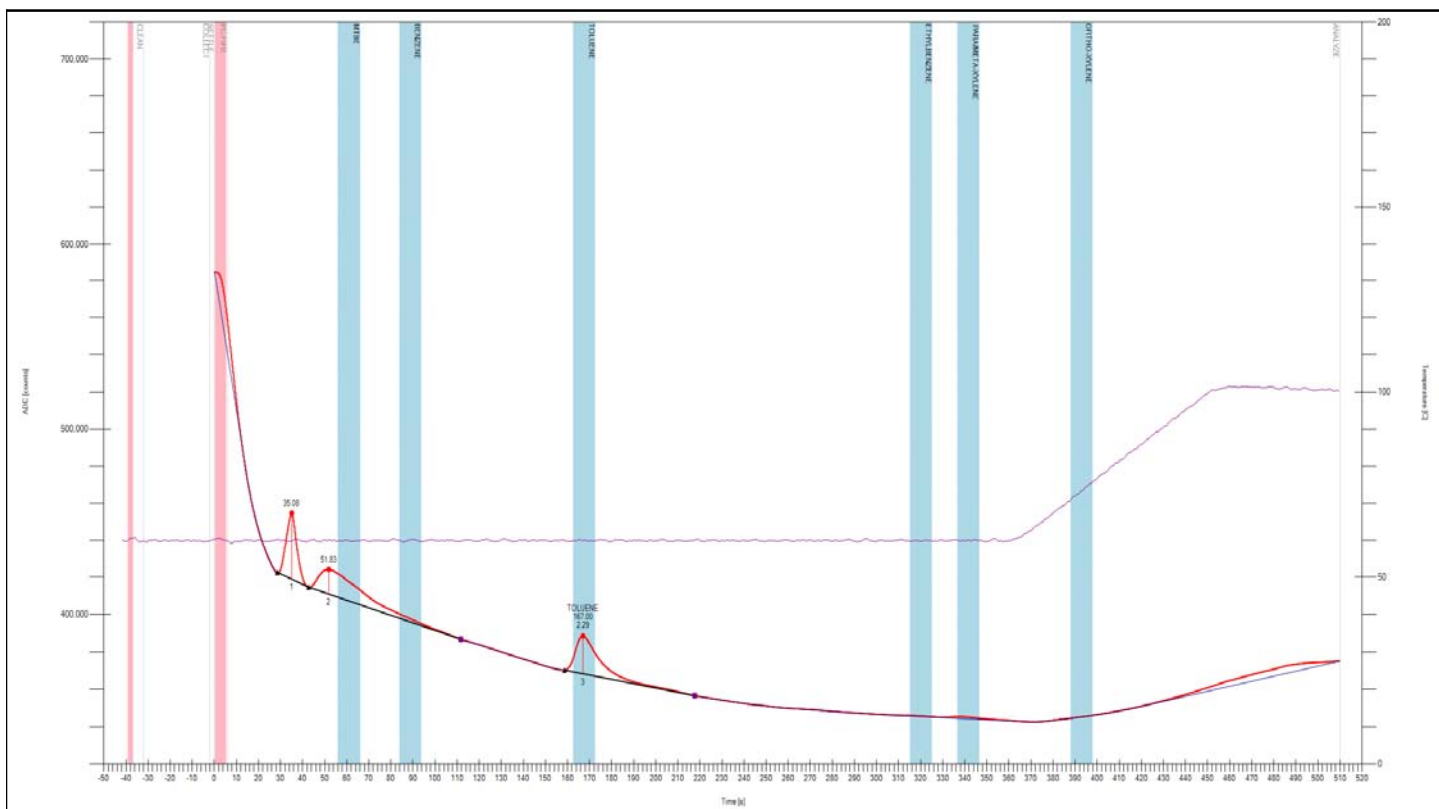
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-27

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		35.08	35917	198192		
2		51.83	13228	327148		
3	TOLUENE	167	20223	264128	2.29	2.29



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1403_LOG_955.xml

2022-01-13 14:28:54Z

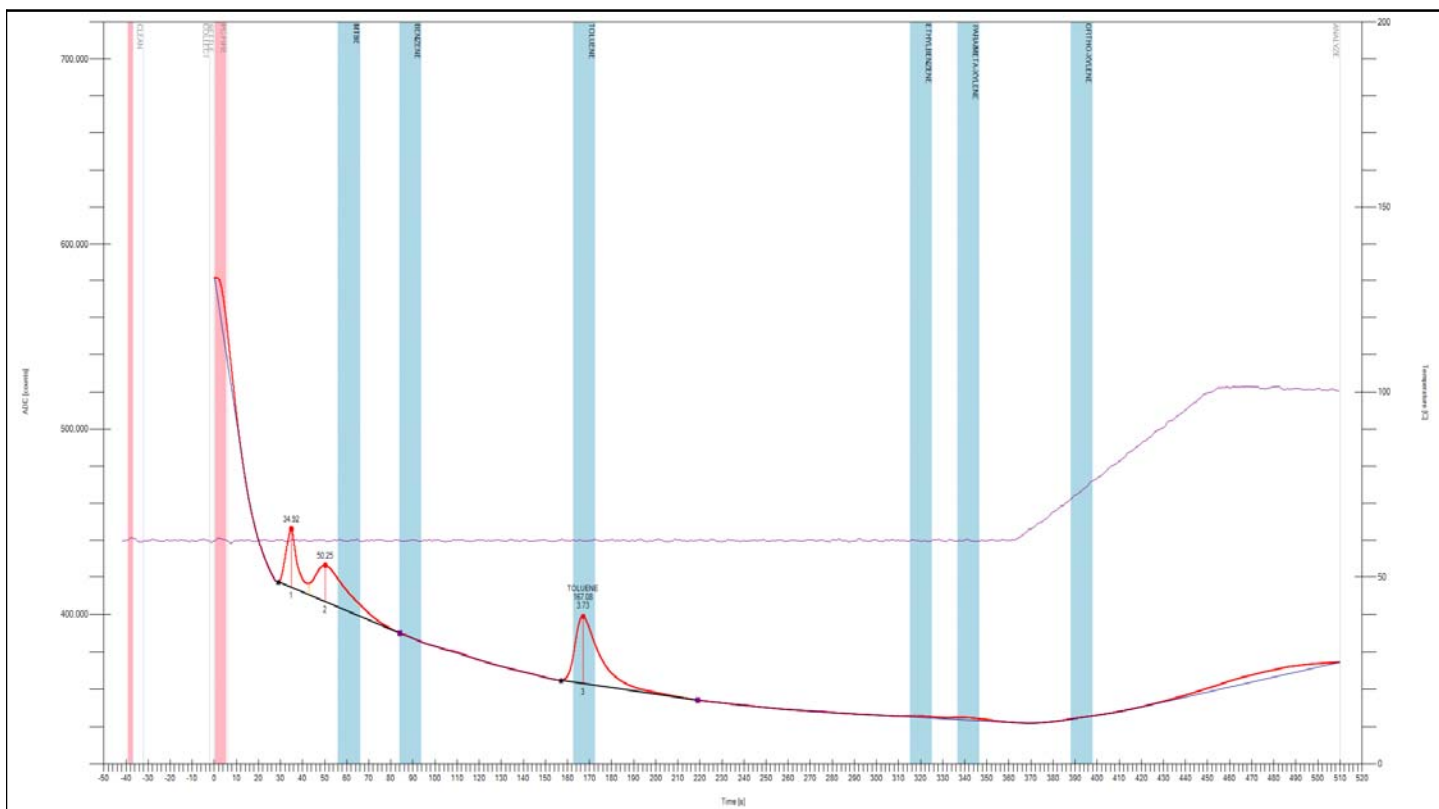
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-28A

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.92	31723	189276		
2		50.25	19424	341282		
3	TOLUENE	167.08	35919	475906	3.73	3.73



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1428_LOG_956.xml

2022-01-13 15:13:04Z

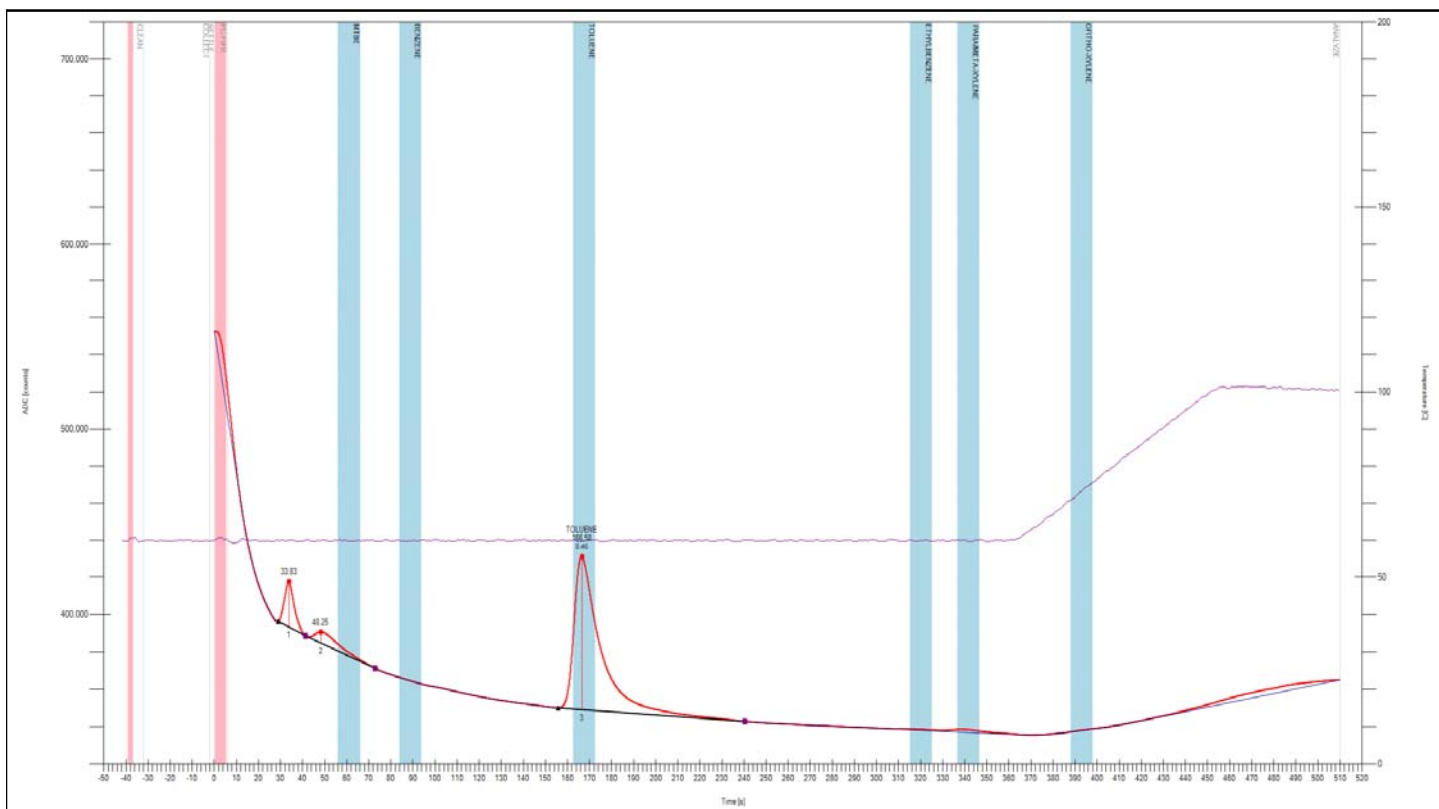
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-28B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.83	24488	124795		
2		48.25	5870	82151		
3	TOLUENE	166.58	81903	1138328	8.46	8.46



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1513_LOG_959.xml

2022-01-13 14:41:37Z

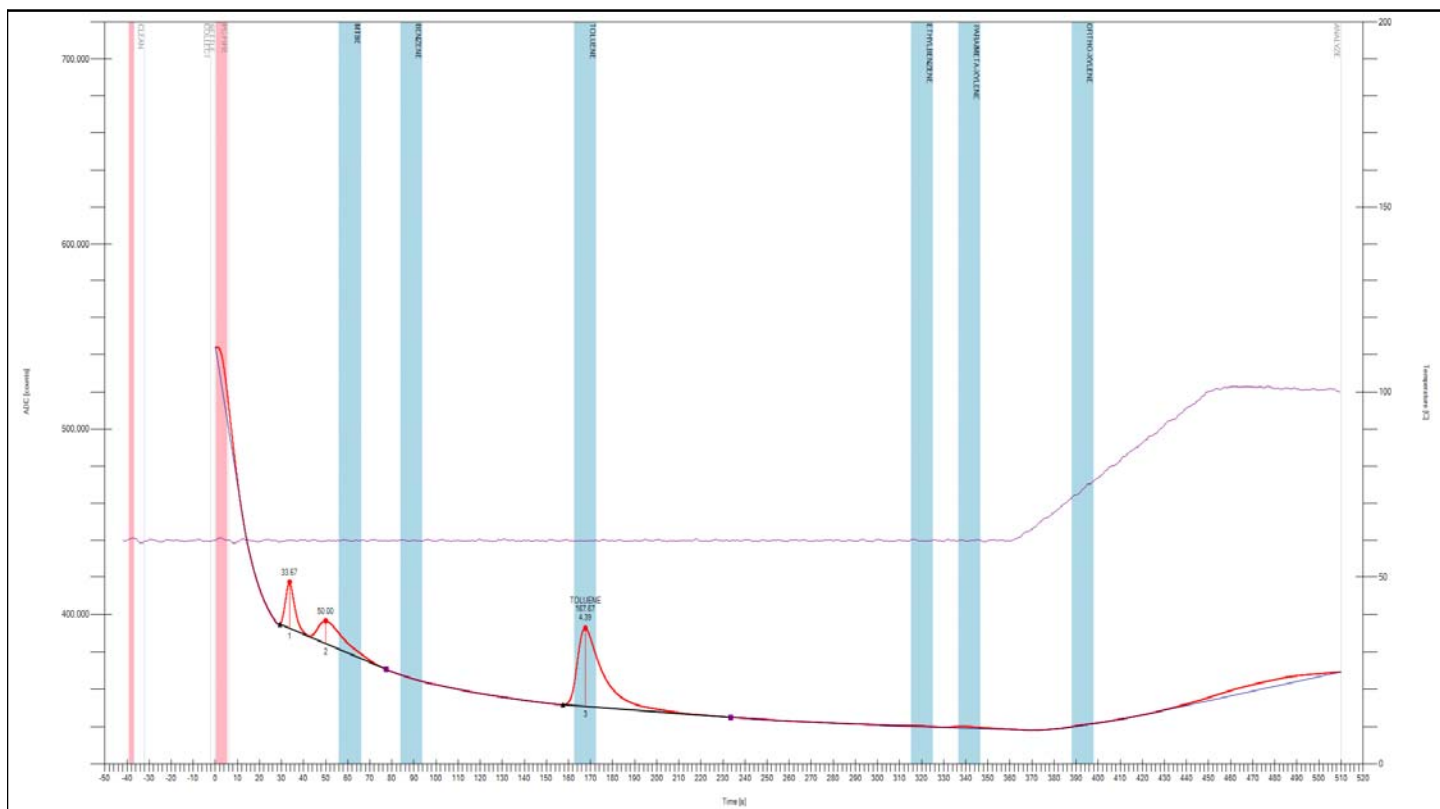
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-28C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.67	24784	119653		
2		50	12135	172269		
3	TOLUENE	167.67	41898	570215	4.39	4.39



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1441_LOG_957.xml

2022-01-13 14:58:17Z

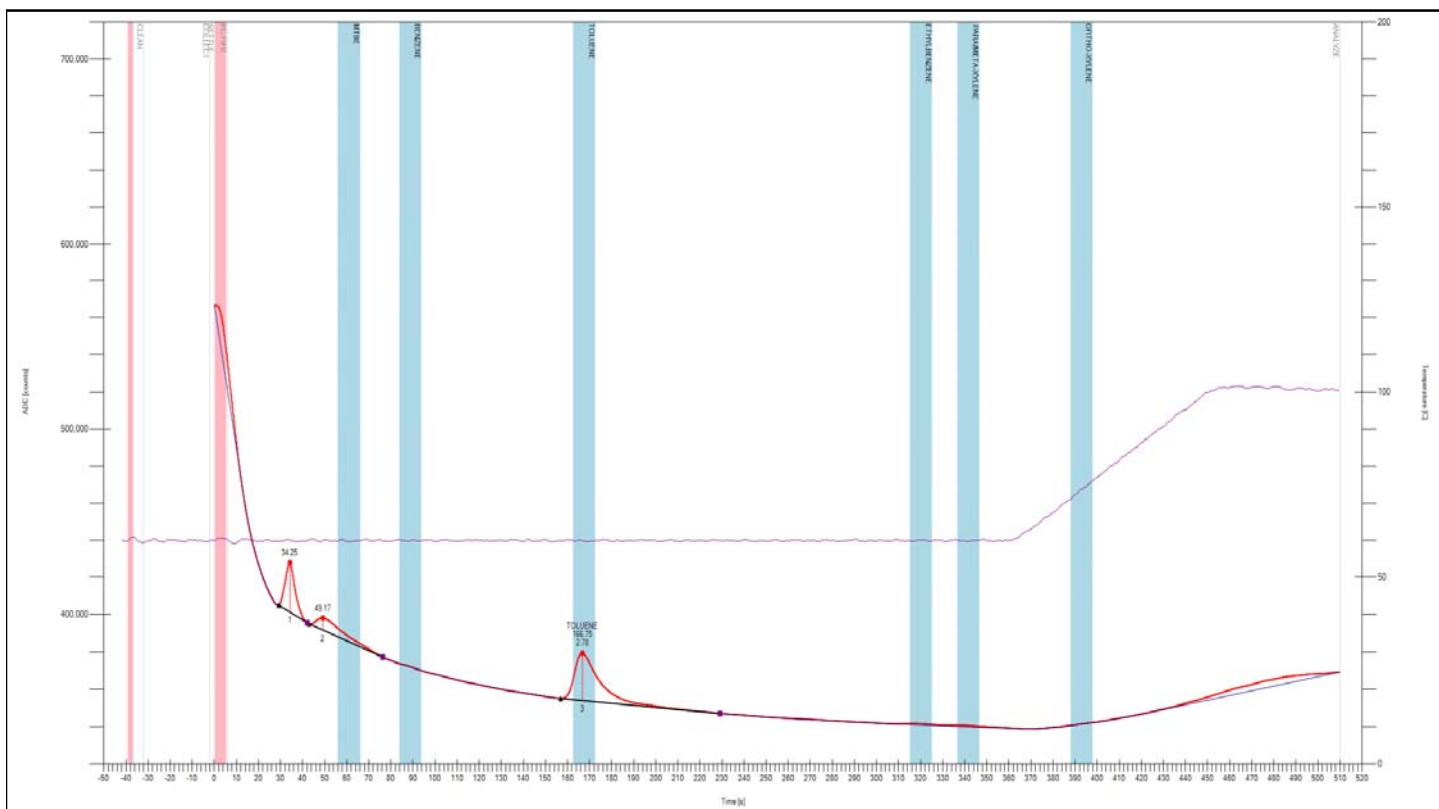
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 43%

Dilution = 1.0

FSP-28D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.25	26598	137793		
2		49.17	6430	98570		
3	TOLUENE	166.75	25401	336867	2.78	2.78



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1458_LOG_958.xml

2022-01-13 15:43:13Z

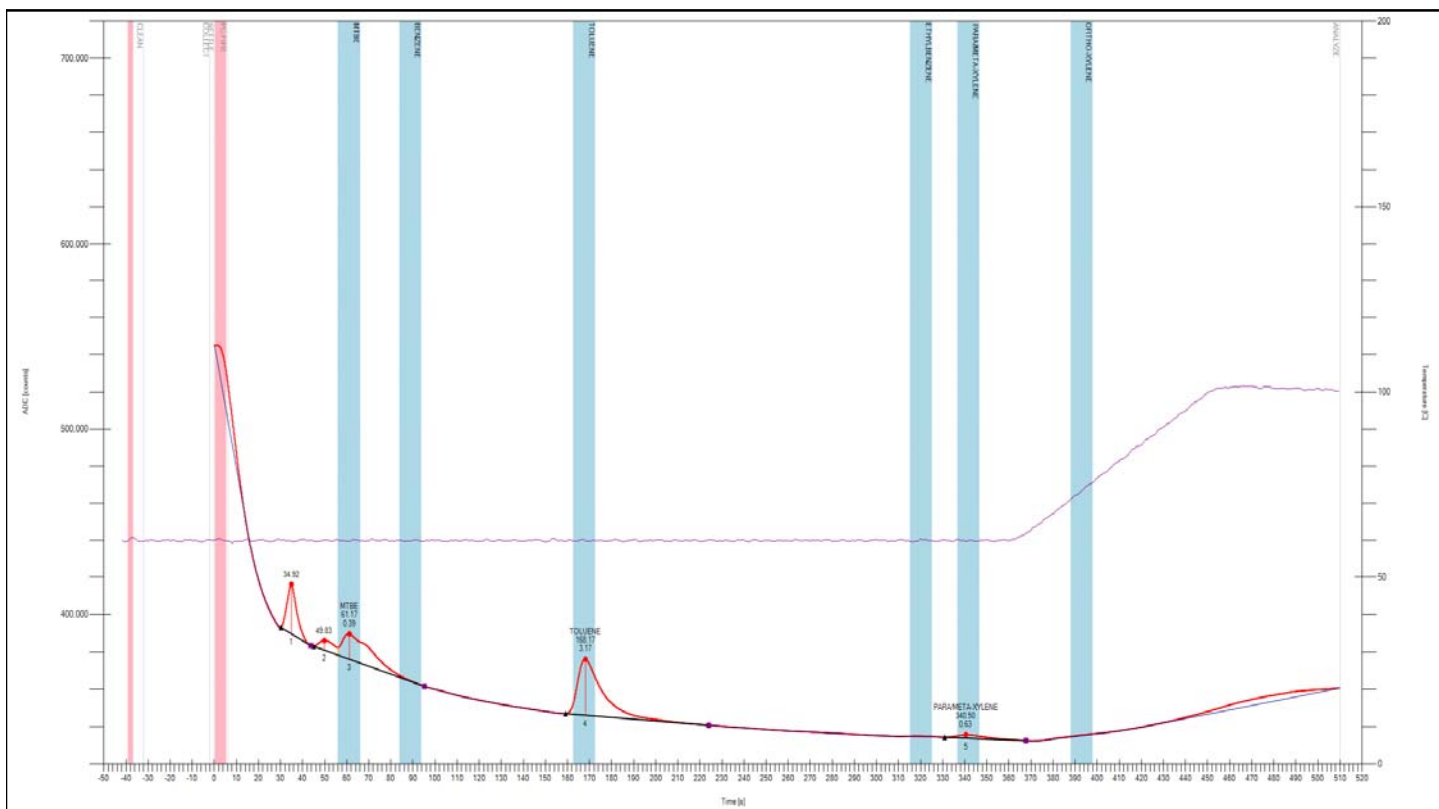
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 42%

Dilution = 1.0

FSP-29

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.92	26593	136986		
2		49.83	5182	43967		
3	MTBE	61.17	13539	219493	0.39	0.39
4	TOLUENE	168.17	30037	393211	3.17	3.17
5	PARA/META-XYLENE	340.5	1776	28452	0.63	0.63



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1543_LOG_961.xml

2022-01-13 15:55:55Z

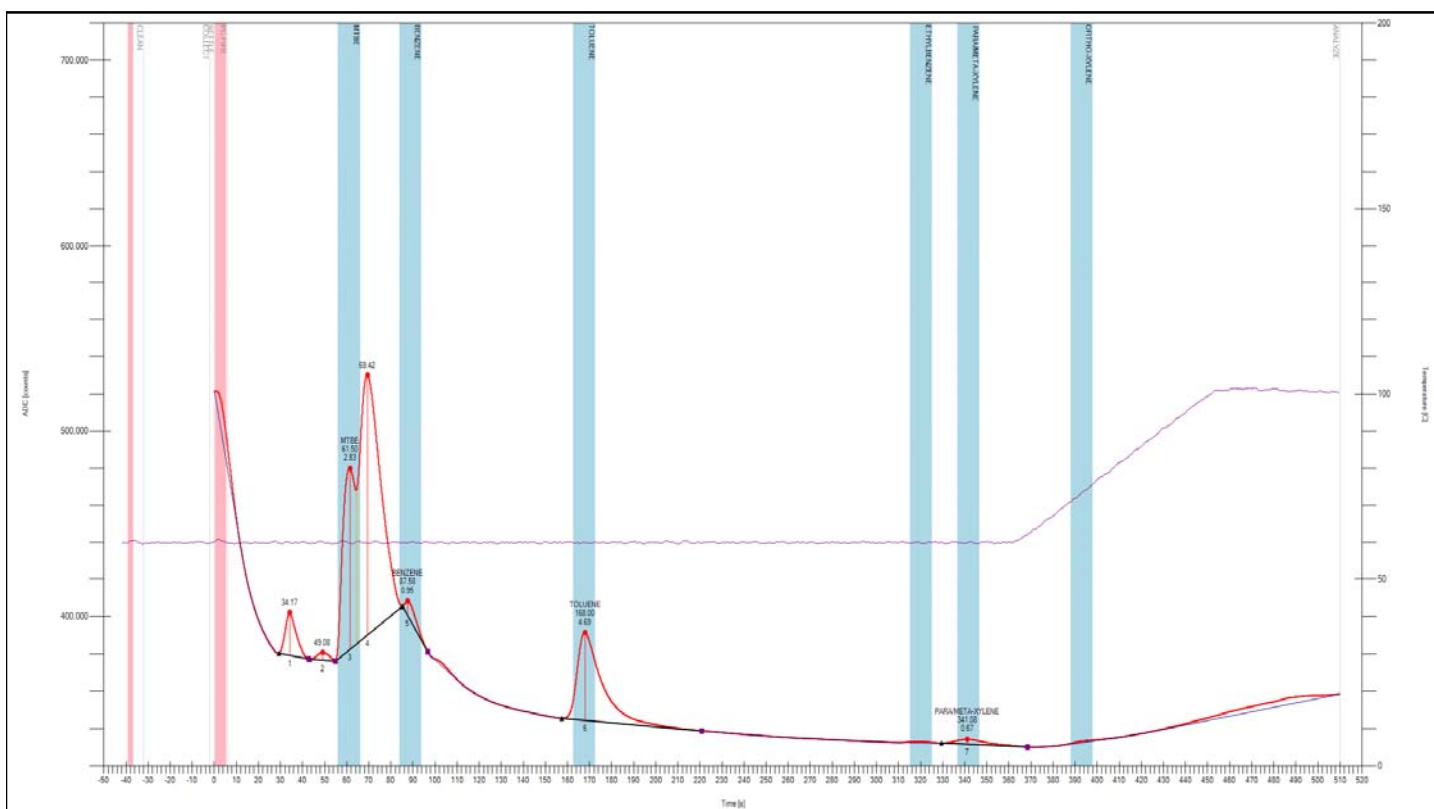
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-30

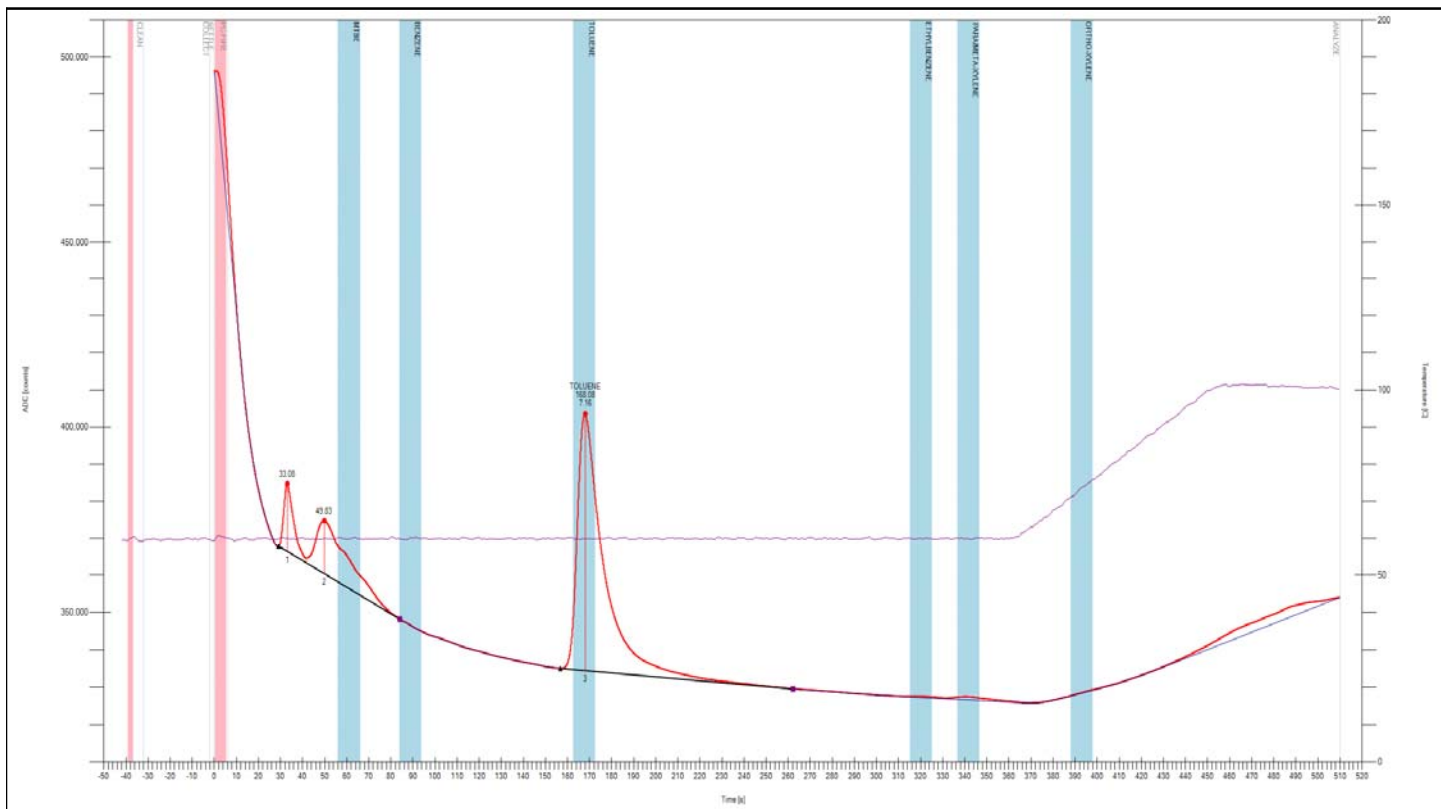
Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.17	23108	131348		
2		49.08	4182	25674		
3	MTBE	61.5	97555	624601	2.83	2.83
4		69.42	140099	1552704		
5	BENZENE	87.58	7882	52310	0.95	0.95
6	TOLUENE	168	47137	613912	4.69	4.69
7	PARA/META-XYLENE	341.08	2670	43151	0.67	0.67



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1555 LOG_962.xml

**FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;
Pump=45%, 42%
Dilution = 1.0
FSP-31A**

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.08	18404	96350		
2		49.83	14394	252398		
3	TOLUENE	168.08	69155	959831	7.16	7.16



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1622 LOG 964.xml

2022-01-13 16:35:23Z

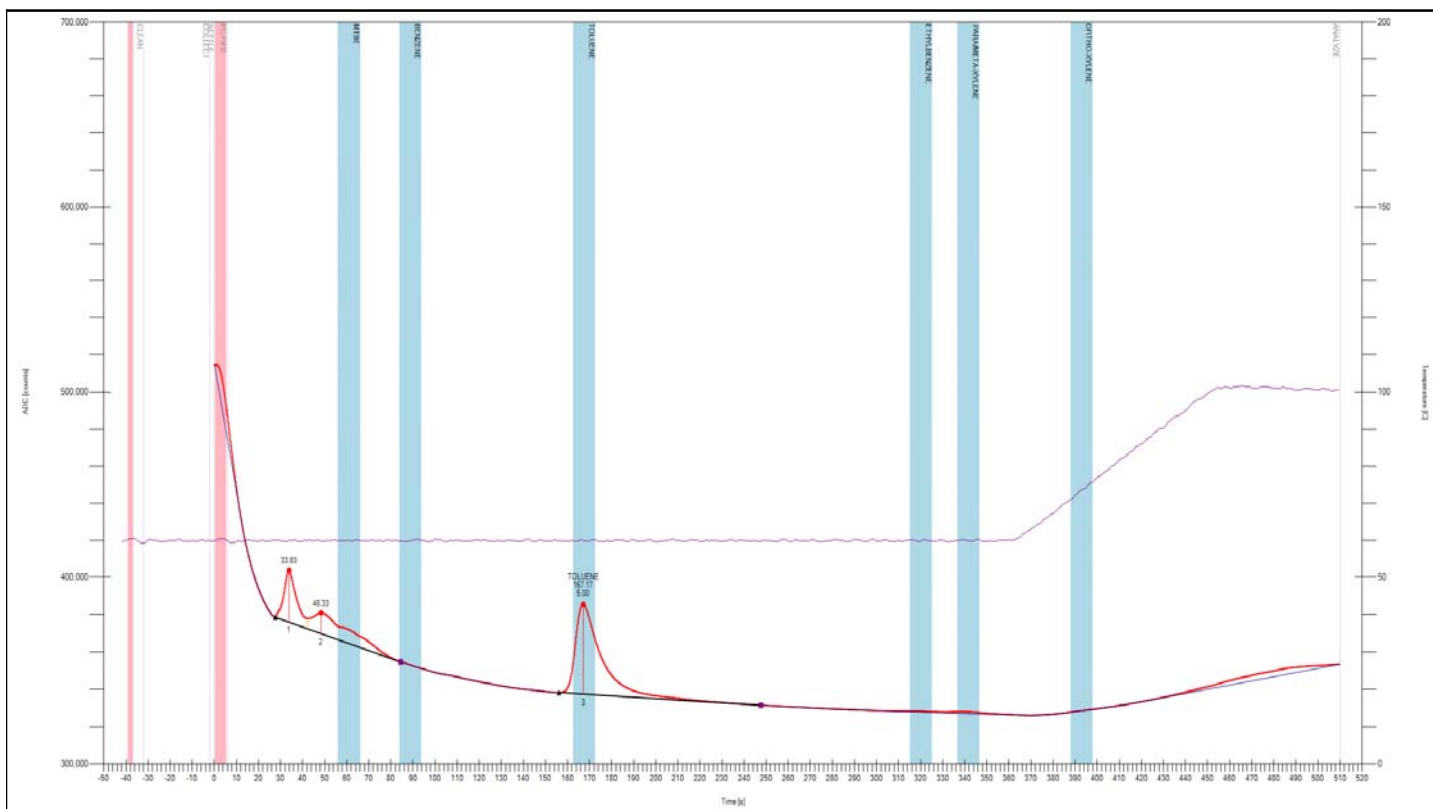
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-31B

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.83	27723	187142		
2		48.33	11173	243351		
3	TOLUENE	167.17	48141	657666	5.00	5



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1635_LOG_965.xml

2022-01-13 16:50:03Z

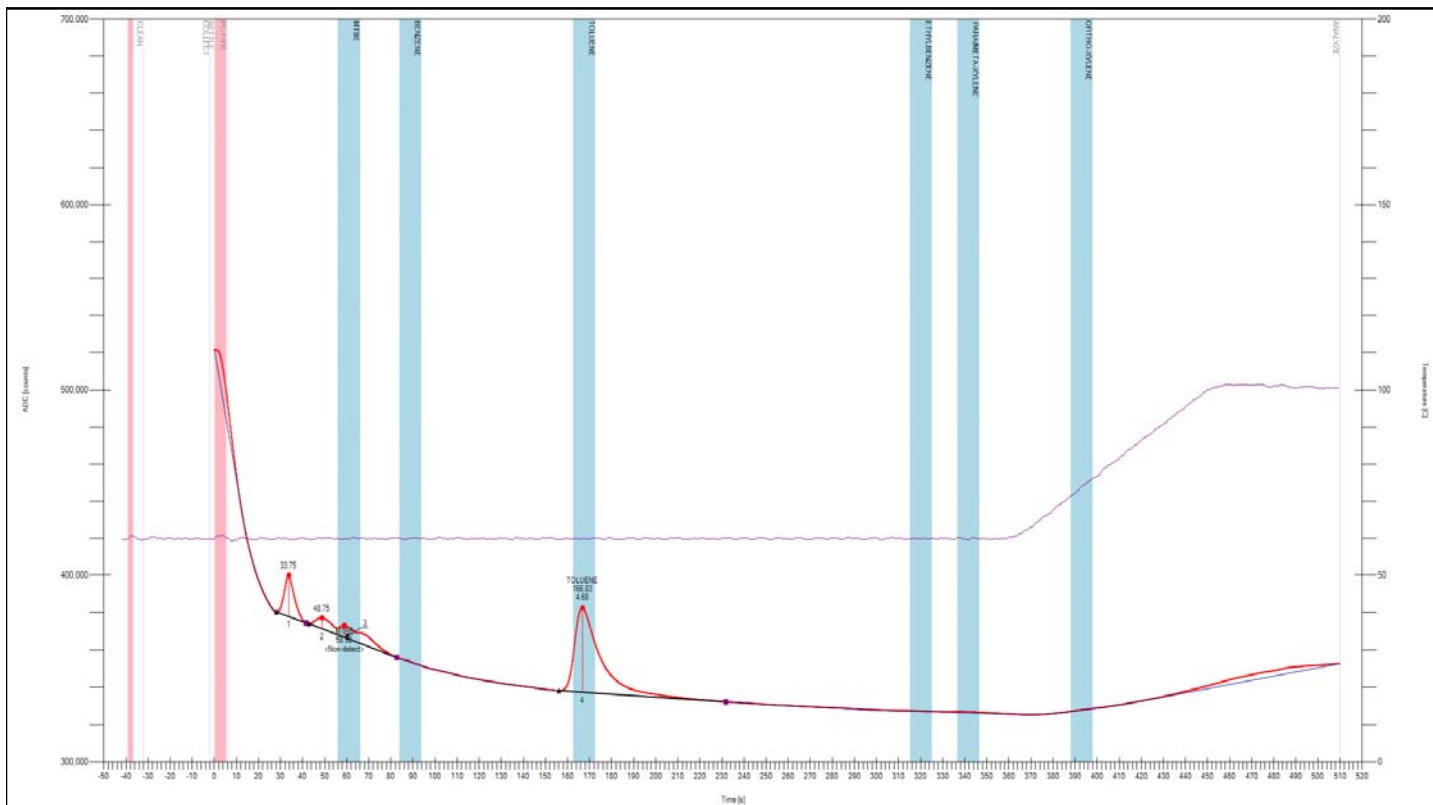
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 43%

Dilution = 1.0

FSP-31C

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		33.75	22138	116583		
2		48.75	5784	50840		
3	MTBE	58.92	6386	104393	<Non-detect>	
4	TOLUENE	166.83	45223	612503	4.68	4.68



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1650_LOG_966.xml

2022-01-13 17:05:16Z

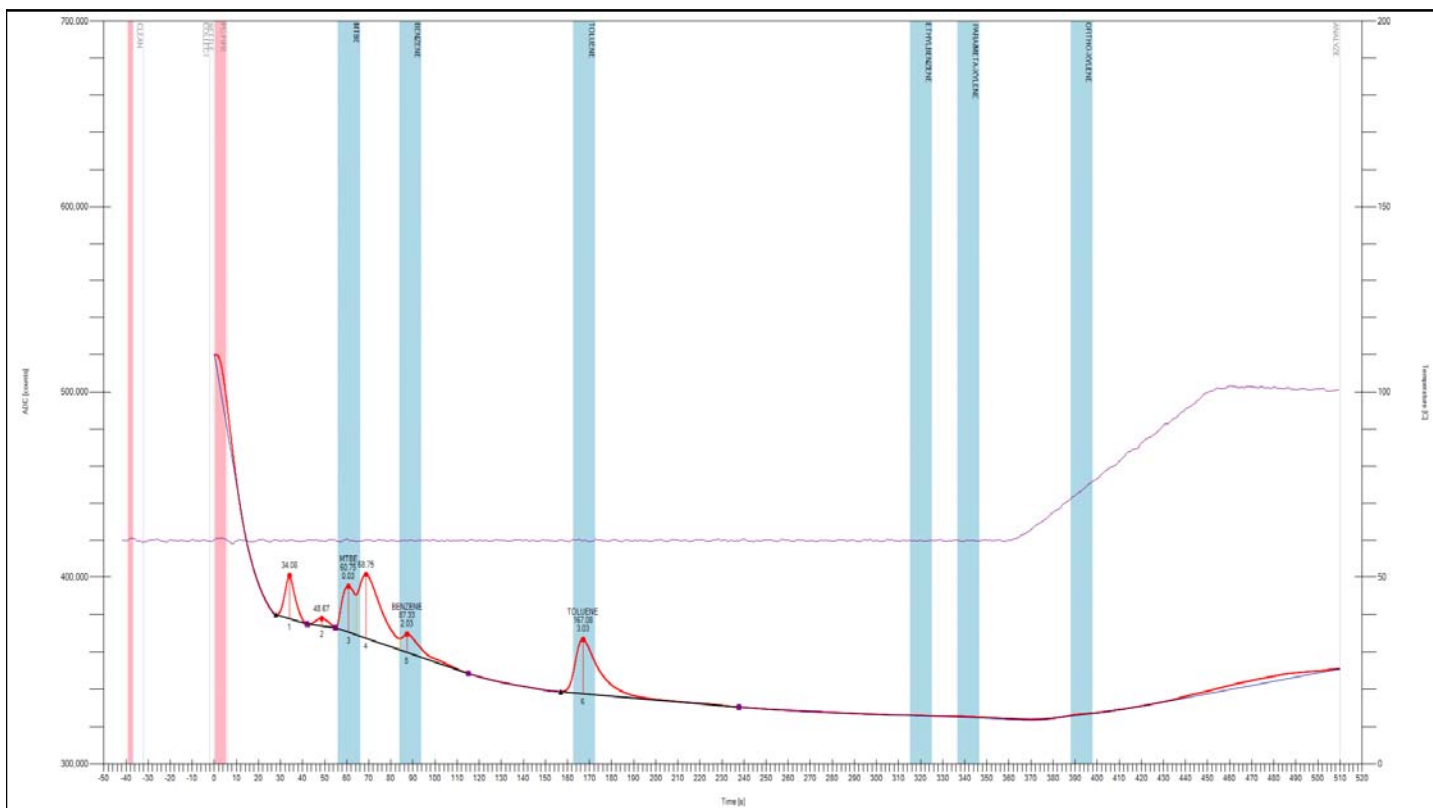
FROG-0218:Ta=360, Tb=90, Tc=60, Ct=60, Ht=100, collect=30, clean=6, presettle=4, settle=2, fire=6;

Pump=45%, 41%

Dilution = 1.0

FSP-31D

Peak	Analyte Name	Time	Height	Area	Concentration	Final Conc.
1		34.08	23234	125909		
2		48.67	3992	26639		
3	MTBE	60.75	24542	161168	0.03	0.03
4		68.75	34158	406351		
5	BENZENE	87.33	9827	105323	2.03	2.03
6	TOLUENE	167.08	29105	373676	3.03	3.03



Red: C:\Users\cooldesk\Documents\EllvinData\20220113\1705_LOG_967.xml

Monitoring Well Purge And Sampling Data

Field Personnel: SS, MF
Sampling Date(s): 2/14/2022-2/15/2022
Sampling Case#: 2

Job Name: Jake Higgins
Job Number: 21-7709

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-1	Initial	15:42	5.61	105.3	14.4	3.58	28.60				3	10.57	1.72	9	No Odor
	1st	15:45	5.54	96.9	14.9	3.99	57.22								
	2nd	15:48	5.45	95.0	15.1	4.05	119.8		2.43						
	3rd	15:50	5.43	92.9	15.4	4.07	104.6			2.67					
	4th	15:53	5.42	92.8	15.6	4.18	88.22								
	5th	15:55	5.40	90.1	15.6	4.12	79.03								
	Sampling	12:05	3.64	82.7	14.2	3.48	18.08						8.61		
MW-2	Initial	12:23	5.39	181.8	13.8	3.31	19.50				3	10.92	1.78	9	No Odor
	1st	12:25	5.42	160.6	14.7	3.85	59.22								
	2nd	12:28	5.37	154.9	14.9	3.91	69.01		2.08						
	3rd	12:30	5.34	148.7	15.2	4.04	98.19			2.64					
	4th	12:33	5.35	147.2	15.4	4.12	84.32								
	5th	12:35	5.34	146.9	15.5	4.19	72.06								
	Sampling	10:35	3.70	150.8	14.4	2.44	11.02						8.89		
MW-3	Initial	11:34	6.14	229.0	14.5	3.84	25.28				3	10.71	1.74	9	No Odor
	1st	11:37	5.72	184.6	15.3	4.40	86.18								
	2nd	11:40	5.68	121.3	15.9	4.49	74.39		2.29						
	3rd	11:44	5.50	115.9	16.4	4.62	87.02			2.42					
	4th	11:47	5.44	108.8	16.5	4.55	71.67								
	5th	11:51	5.43	107.2	16.5	4.74	64.15								
	Sampling	10:22	4.25	154.9	13.5	3.18	12.19						8.73		
MW-4	Initial	11:11	6.18	115.9	14.2	3.51	22.84				3	10.39	1.69	8.5	No Odor
	1st	11:13	6.09	88.4	15.5	4.06	68.13								
	2nd	11:15	6.05	84.8	15.6	4.19	72.09		2.61						
	3rd	11:18	6.04	67.0	15.8	4.28	70.82			2.61					
	4th	11:21	6.00	59.1	15.9	4.36	64.91								
	5th	11:28	5.98	55.6	16.0	4.45	66.80								
	Sampling	10:13	4.32	100.5	11.7	7.09	8.25						8.47		

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells. 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Wells purged 2-14-22
Sampled 2-15-22

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: SS MF
Sampling Date(s): 2/14/2022-2/15/2022
Sampling Case#: 2

Job Name: Jake Higgins
Job Number: 21-2209

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Dissolved Oxygen:		No													
Turbidity:		Conductivity Calibrated Every 3 Months by QA Manager													
Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H ₂ O	final H ₂ O			**calc.	actual	
MW-5	Initial	12:02	5.41	99.9	14.1	4.16	16.57	2.27	2.46	2	10.73	1.75	9	No Odor	
	1st	12:04	5.29	94.6	16.4	4.48	46.18								
	2nd	12:06	5.24	92.1	17.9	5.13	109.6								
	3rd	12:09	5.22	90.8	18.5	5.20	82.11								
	4th	12:13	5.17	91.2	18.7	5.27	79.56								
	5th	12:16	5.19	89.9	18.9	5.33	72.30								
	Sampling	10:29	4.02	103.4	13.9	3.44	17.04								
MW-6	Initial	12:46	6.09	61.1	14.7	3.90	11.45	2.54	2.83	3	10.46	1.70	9	No 51 gph Odor	
	1st	12:48	5.92	55.0	15.0	4.52	58.41								
	2nd	12:51	5.88	53.6	15.8	4.59	79.20								
	3rd	12:53	5.83	50.9	16.1	4.81	108.6								
	4th	12:55	5.79	51.5	16.3	4.85	92.18								
	5th	12:58	5.77	51.8	16.4	4.99	84.10								
	Sampling	10:58	4.17	66.7	14.0	3.39	14.52								
MW-7	Initial	13:31	5.68	70.7	15.1	2.48	26.19	3.09	2.91	3	9.91	1.62	8.5	No Odor	
	1st	13:33	5.49	67.5	15.8	3.09	35.03								
	2nd	13:35	5.42	64.0	16.7	3.27	81.99								
	3rd	13:37	5.45	61.8	17.0	3.41	97.02								
	4th	13:40	5.39	60.4	17.0	3.45	86.40								
	5th	13:43	5.38	58.2	17.1	3.60	79.21								
	Sampling	12:24	4.53	84.3	15.7	3.75	28.50								
MW-8	Initial	14:15	6.19	198.0	16.0	3.44	18.54	3.50	3.76	4	10.5	1.71	9	Odor	
	1st	14:17	6.21	198.1	16.9	3.82	61.27								
	2nd	14:20	6.27	199.4	17.2	4.15	105.9								
	3rd	14:22	6.24	200.3	17.4	4.22	92.46								
	4th	14:25	6.25	201.2	17.7	4.35	84.03								
	5th	14:28	6.25	201.7	17.8	4.29	82.47								
	Sampling	11:15	4.59	160.0	16.1	2.13	14.40								

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x .047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: SS MF
Sampling Date(s): 2/14/2022-2/15/2022
Sampling Case#: 2

Job Name: Take Higgins
Job Number: 21-7709

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-9	Initial	14:33	6.05	118.2	15.3	2.84	30.26				3 13	9.31	1.52	8	No Odor
	1st	14:35	5.91	81.0	15.8	3.03	91.28								
	2nd	14:38	5.86	69.5	16.2	3.56	101.4								
	3rd	14:41	5.82	68.2	16.4	3.20	81.03								
	4th	14:44	5.84	66.1	16.5	4.05	84.18		3.69	3.97					
	5th	14:46	5.80	65.7	16.5	3.91	79.22								
	Sampling	11:25	4.56	111.7	15.2	6.54	19.89						7.59		
MW-10	Initial	14:52	6.37	210.4	15.3	2.47	17.26				3 13	10.19	1.66	8.5	Odor DVP
	1st	14:53	6.35	228.0	15.9	2.65	52.09								
	2nd	14:55	6.32	216.9	16.7	2.91	85.90								
	3rd	14:58	6.33	204.3	16.8	3.38	72.33								
	4th	15:01	6.29	196.5	16.8	3.27	79.01		2.81	2.93					
	5th	15:05	6.30	194.8	16.9	3.14	85.26								
	Sampling	11:35	4.66	305.6	15.1	1.94	9.44						8.30		
DW-1	Initial	15:13	4.48	117.8	15.3	4.89	30.73				20 25	22.74	3.71	19	No Odor
	1st	15:17	4.61	109.1	15.9	5.06	89.22								
	2nd	15:23	4.69	105.8	16.8	5.19	98.30								
	3rd	15:28	4.74	107.2	16.7	4.62	80.21								
	4th	15:32	4.71	104.9	17.0	4.80	75.06		2.26	2.54					
	5th	15:37	4.72	104.5	17.2	4.73	79.45								
	Sampling	11:56	4.77	116.7	15.2	5.46	15.29						18.53		
DW-2	Initial	10:36	5.70	168.1	14.0	3.37	16.44				20 25	22.69	3.70	18.5	No Odor
	1st	10:40	5.64	150.9	18.8	4.19	52.81								
	2nd	10:44	5.58	145.0	18.9	4.25	67.20								
	3rd	10:48	5.61	142.7	19.1	4.04	74.13								
	4th	10:53	5.66	137.6	19.1	3.96	61.09		2.31	2.51					
	5th	10:57	5.63	137.2	19.1	3.80	53.26								
	Sampling	10:42	3.66	122.1	14.0	3.6	15.63						18.49		

* = (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x .047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

** = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: SS, MF
Sampling Date(s): 2/14/2022 - 2/15/2022
Sampling Case#: 2

Job Name: Jake Higgins
Job Number: 21-2209

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
DW-3	Initial	13:05	5.86	95.1	17.8	2.39	8.77								
	1st	13:09	5.91	99.0	20.2	2.96	64.18								
	2nd	13:13	5.95	105.2	20.8	3.04	89.11								
	3rd	13:16	6.12	108.1	20.9	3.29	45.02								
	4th	13:20	6.28	111.9	21.0	3.55	69.00								
	5th	13:24	6.35	114.0	21.0	3.67	51.44								
	Sampling	12:17	4.93	108.5	15.2	3.04	17.08								
DW-4	Initial	13:50	5.69	111.4	17.6	3.02	14.16								
	1st	13:54	5.70	113.0	18.7	3.97	86.22								
	2nd	13:57	5.76	113.3	19.0	3.84	70.29								
	3rd	14:02	5.79	114.1	19.6	3.99	70.84								
	4th	14:06	5.80	115.2	20.5	3.77	32.04								
	5th	14:09	5.82	115.1	20.7	3.80	22.93								
	Sampling	11:01	3.94	104.5	15.3	6.48	9.36								
DUP FB WAC	Initial	11:35	mw-10		Odor										
	1st														
	2nd	12:24													
	3rd														
	4th														
	5th	12:26													
	Sampling														
TB SW-1 SW-2	Initial	9:00													
	1st														
	2nd														
	3rd	12:41													
	4th														
	5th														
	Sampling														

* = (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

** = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Field Personnel: CP, JB

Sampling Date(s): 2/28/2022

Sampling Case#: _____

Monitoring Well Purge And Sampling Data

Job Name: Take Huggins

Job Number: 21-7709

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

															Conductivity: Yes _____ No _____		Dissolved Oxygen: Yes _____ No _____		Turbidity: Yes _____ No _____	
															Conductivity Calibrated Every 3 Months by QA Manager					
Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes					
								product	Initial H ₂ O	final H ₂ O			**calc.	actual						
TW-1	Initial	12:40	Sample only																	
	1st																			
	2nd																			
	3rd																			
	4th																			
	5th																			
	Sampling																			
SW-4	Initial																			
	1st	34.095389, -79.698409																		
	2nd	Collected From stream @ 12:00																		
	3rd																			
	4th																			
	5th																			
	Sampling																			
SW-5	Initial																			
	1st																			
	2nd	34.096050, -79.698577																		
	3rd	Collected From Stream @ 12:16																		
	4th																			
	5th																			
	Sampling																			
SW-6	Initial																			
	1st																			
	2nd	34.096699, -79.699359																		
	3rd	Collected From stream @ 12:25																		
	4th																			
	5th																			
	Sampling																			

*= (Depth of Well) - (Depth to Water = Water Height
One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing

Gallons

Sampling Case

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Field Personnel:

CP, TB

Sampling Date(s):

2/28/2022

Sampling Case#:

Monitoring Well Purge And Sampling Data

Job Name:

Sake Huggins

Job Number:

21-7709

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H ₂ O	final H ₂ O			**calc.	actual	
Field Blank	Initial														
	1st	13:00													
	2nd														
	3rd														
	4th														
	5th														
Trip Blank	Sampling														
	Initial														
	1st	5:00													
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: SS MF
Sampling Date(s): 2/14/2022-2/15/2022
Sampling Case#: 2

Job Name: Jake Higgins
Job Number: 21-2709

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.		Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes		
									product	Initial H ₂ O	final H ₂ O			**calc.	actual			
WSW-1		Initial	14:20	collected from spigot on well; well inside barn														
		1st		3101 Willow creek, 34.096044, -79.701503														
		2nd																
		3rd																
WSW-2		4th		spoke w/ prop Property owner told us not to sample if tenants do not give permission;														
		5th		-34.095156, -79.700508														
		Sampling		3101 Willow creek Rd. Rental house. Tenants did not answer door.														
WSW-3		Initial		10 Legettes Rd 34.096743, -79.696040														
		1st																
		2nd																
		3rd																
WSW DUP		4th																
		5th	14:20 (WSW-1)															
		Sampling																
WSW FB		Initial	14:35															
		1st																
		2nd																
TB		3rd	8:00															
		4th																
		5th																
		Sampling																
Possible WSW		Initial																
		1st		34.094158, -79.700555														
		2nd																
		3rd		3118 Willow Creek Rd														
		4th		house has small brick house attached; unable to contact homeowner														
		5th																
		Sampling		No wells located at 3124 willow creek or 4926 pamplico Hwy. Owner stated No wells on properties adjacent to site														

*= (Depth of Well) - (Depth to Water = Water Height)

Obs. Null

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x .047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-211414-1
Client Project/Site: Jake Huggins

For:
Midlands Environmental Consultants Inc
231 Dooley Road
Lexington, South Carolina 29073

Attn: Kyle Pudney



Authorized for release by:
2/23/2022 3:32:32 PM

John Andros, Project Manager I
(404)944-4744
john.andros@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-211414-1	MW-1	Ground Water	02/15/22 12:05	02/16/22 15:15
680-211414-2	MW-2	Ground Water	02/15/22 10:35	02/16/22 15:15
680-211414-3	MW-3	Ground Water	02/15/22 10:22	02/16/22 15:15
680-211414-4	MW-4	Ground Water	02/15/22 10:13	02/16/22 15:15
680-211414-5	MW-5	Ground Water	02/15/22 10:29	02/16/22 15:15
680-211414-6	MW-6	Ground Water	02/15/22 10:53	02/16/22 15:15
680-211414-7	MW-7	Ground Water	02/15/22 12:24	02/16/22 15:15
680-211414-8	MW-8	Ground Water	02/15/22 11:15	02/16/22 15:15
680-211414-9	MW-9	Ground Water	02/15/22 11:25	02/16/22 15:15
680-211414-10	MW-10	Ground Water	02/15/22 11:35	02/16/22 15:15
680-211414-11	DW-1	Ground Water	02/15/22 11:56	02/16/22 15:15
680-211414-12	DW-2	Ground Water	02/15/22 10:42	02/16/22 15:15
680-211414-13	DW-3	Ground Water	02/15/22 12:17	02/16/22 15:15
680-211414-14	DW-4	Ground Water	02/15/22 11:01	02/16/22 15:15
680-211414-15	Dup	Ground Water	02/15/22 00:00	02/16/22 15:15
680-211414-16	SW-1	Ground Water	02/15/22 12:41	02/16/22 15:15
680-211414-17	SW-2	Ground Water	02/15/22 12:42	02/16/22 15:15
680-211414-18	SW-3	Ground Water	02/15/22 12:50	02/16/22 15:15
680-211414-19	FB	Water	02/15/22 12:24	02/16/22 15:15
680-211414-20	GAC	Ground Water	02/15/22 12:26	02/16/22 15:15
680-211414-21	TB	Water	02/15/22 08:00	02/16/22 15:15
680-211414-22	WSW-1	Drinking Water	02/15/22 14:20	02/16/22 15:15
680-211414-23	WSW-Dup	Drinking Water	02/15/22 00:00	02/16/22 15:15
680-211414-24	WSW-FB	Water	02/15/22 14:35	02/16/22 15:15
680-211414-25	WSW-TB	Water	02/15/22 08:00	02/16/22 15:15

Case Narrative

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Job ID: 680-211414-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-211414-1

Comments

No additional comments.

Receipt

The samples were received on 2/16/2022 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 2.8° C.

GC/MS VOA

Method 524.2: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-707614.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-707645.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-707475 recovered outside control limits for the following analyte(s): tert-Butyl alcohol (TBA). tert-Butyl alcohol (TBA) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-707475.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-707460 and analytical batch 680-707702 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-707702 recovered outside control limits for the following analytes: tert-Butyl Formate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted due to the abundance of non-target analytes: MW-10 (680-211414-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-1

Lab Sample ID: 680-211414-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	158		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	19.3		1.00	0.250	ug/L	1		8260D	Total/NA
Xylenes, Total	67.9		1.00	0.230	ug/L	1		8260D	Total/NA
Naphthalene	78.7		5.00	2.40	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	160		10.0	0.700	ug/L	1		8260D	Total/NA
tert-Butyl alcohol (TBA)	169	+	50.0	6.90	ug/L	1		8260D	Total/NA
Tert-amyl-methyl ether (TAME)	56.9		1.00	0.780	ug/L	1		8260D	Total/NA
Benzene - DL	624		10.0	2.70	ug/L	10		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE) - DL	264		50.0	8.10	ug/L	10		8260D	Total/NA
tert-Amyl alcohol - DL	3030		200	86.0	ug/L	10		8260D	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 680-211414-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.522	J	1.00	0.200	ug/L	1		8260D	Total/NA
Xylenes, Total	1.34		1.00	0.230	ug/L	1		8260D	Total/NA
Naphthalene	25.7		5.00	2.40	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	78.2		10.0	0.700	ug/L	1		8260D	Total/NA
tert-Butyl alcohol (TBA)	83.3	+	50.0	6.90	ug/L	1		8260D	Total/NA
Tert-amyl-methyl ether (TAME)	26.9		1.00	0.780	ug/L	1		8260D	Total/NA
Benzene - DL	203		5.00	1.35	ug/L	5		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE) - DL	405		25.0	4.05	ug/L	5		8260D	Total/NA
tert-Amyl alcohol - DL	442		100	43.0	ug/L	5		8260D	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 680-211414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.279	J	1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	3.15		1.00	0.250	ug/L	1		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE)	1.95	J	5.00	0.810	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	0.893	J	10.0	0.700	ug/L	1		8260D	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 680-211414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.252	J	1.00	0.200	ug/L	1		8260D	Total/NA
Xylenes, Total	1.91		1.00	0.230	ug/L	1		8260D	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 680-211414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl-t-Butyl Ether (MTBE)	14.3		5.00	0.810	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	3.06	J	10.0	0.700	ug/L	1		8260D	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 680-211414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	356		5.00	1.35	ug/L	5		8260D	Total/NA
Ethylbenzene	134		5.00	1.00	ug/L	5		8260D	Total/NA
Toluene	30.1		5.00	1.25	ug/L	5		8260D	Total/NA
Xylenes, Total	11.6		5.00	1.15	ug/L	5		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE)	166		25.0	4.05	ug/L	5		8260D	Total/NA
Naphthalene	87.5		25.0	12.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-6 (Continued)

Lab Sample ID: 680-211414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl Ether (DIPE)	122		50.0	3.50	ug/L	5		8260D	Total/NA
tert-Butyl alcohol (TBA)	86.6	J *+	250	34.5	ug/L	5		8260D	Total/NA
Tert-amyl-methyl ether (TAME)	46.4		5.00	3.90	ug/L	5		8260D	Total/NA
tert-Amyl alcohol	2410		100	43.0	ug/L	5		8260D	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 680-211414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	37.2		1.00	0.270	ug/L	1		8260D	Total/NA
Ethylbenzene	82.1		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	0.699	J	1.00	0.250	ug/L	1		8260D	Total/NA
Xylenes, Total	3.95		1.00	0.230	ug/L	1		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE)	15.8		5.00	0.810	ug/L	1		8260D	Total/NA
Naphthalene	58.3		5.00	2.40	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	20.3		10.0	0.700	ug/L	1		8260D	Total/NA
tert-Butyl alcohol (TBA)	31.3	J *+	50.0	6.90	ug/L	1		8260D	Total/NA
Tert-amyl-methyl ether (TAME)	4.67		1.00	0.780	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	1030		20.0	8.60	ug/L	1		8260D	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 680-211414-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3720		50.0	13.5	ug/L	50		8260D	Total/NA
Ethylbenzene	2200		50.0	10.0	ug/L	50		8260D	Total/NA
Xylenes, Total	12800		50.0	11.5	ug/L	50		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE)	690		250	40.5	ug/L	50		8260D	Total/NA
Naphthalene	781		250	120	ug/L	50		8260D	Total/NA
Isopropyl Ether (DIPE)	268	J	500	35.0	ug/L	50		8260D	Total/NA
tert-Butyl alcohol (TBA)	370	J *+	2500	345	ug/L	50		8260D	Total/NA
Tert-amyl-methyl ether (TAME)	127		50.0	39.0	ug/L	50		8260D	Total/NA
tert-Amyl alcohol	8690		1000	430	ug/L	50		8260D	Total/NA
Toluene - DL	21100		200	50.0	ug/L	200		8260D	Total/NA
Ethylene Dibromide (EDB)	0.121		0.0177	0.00492	ug/L	1		8011	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 680-211414-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.278	J	1.00	0.270	ug/L	1		8260D	Total/NA
Ethylbenzene	4.80		1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	3.89		1.00	0.250	ug/L	1		8260D	Total/NA
Xylenes, Total	27.4		1.00	0.230	ug/L	1		8260D	Total/NA
tert-Amyl alcohol	77.4		20.0	8.60	ug/L	1		8260D	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 680-211414-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1070		50.0	13.5	ug/L	50		8260D	Total/NA
Ethylbenzene	753		50.0	10.0	ug/L	50		8260D	Total/NA
Toluene	297		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total	2380		50.0	11.5	ug/L	50		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE)	510		250	40.5	ug/L	50		8260D	Total/NA
Naphthalene	342		250	120	ug/L	50		8260D	Total/NA
Isopropyl Ether (DIPE)	339	J	500	35.0	ug/L	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-10 (Continued)

Lab Sample ID: 680-211414-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tert-amyl-methyl ether (TAME)	120		50.0	39.0	ug/L	50		8260D	Total/NA
tert-Amyl alcohol	7950		1000	430	ug/L	50		8260D	Total/NA

Client Sample ID: DW-1

Lab Sample ID: 680-211414-11

No Detections.

Client Sample ID: DW-2

Lab Sample ID: 680-211414-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl-t-Butyl Ether (MTBE)	7.40		5.00	0.810	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	2.61	J	10.0	0.700	ug/L	1		8260D	Total/NA

Client Sample ID: DW-3

Lab Sample ID: 680-211414-13

No Detections.

Client Sample ID: DW-4

Lab Sample ID: 680-211414-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	67.5		1.00	0.270	ug/L	1		8260D	Total/NA
Isopropyl Ether (DIPE)	1.69	J	10.0	0.700	ug/L	1		8260D	Total/NA
Ethylbenzene - DL	611		5.00	1.00	ug/L	5		8260D	Total/NA
Toluene - DL	1890		50.0	12.5	ug/L	50		8260D	Total/NA
Xylenes, Total - DL	4230		50.0	11.5	ug/L	50		8260D	Total/NA
Naphthalene - DL	181		25.0	12.0	ug/L	5		8260D	Total/NA

Client Sample ID: Dup

Lab Sample ID: 680-211414-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1090		10.0	2.70	ug/L	10		8260D	Total/NA
Ethylbenzene	783		10.0	2.00	ug/L	10		8260D	Total/NA
Toluene	359		10.0	2.50	ug/L	10		8260D	Total/NA
Xylenes, Total	2440		10.0	2.30	ug/L	10		8260D	Total/NA
Methyl-t-Butyl Ether (MTBE)	496		50.0	8.10	ug/L	10		8260D	Total/NA
Naphthalene	325		50.0	24.0	ug/L	10		8260D	Total/NA
Isopropyl Ether (DIPE)	343		100	7.00	ug/L	10		8260D	Total/NA
tert-Butyl alcohol (TBA)	298	J *+	500	69.0	ug/L	10		8260D	Total/NA
Tert-amyl-methyl ether (TAME)	129		10.0	7.80	ug/L	10		8260D	Total/NA
tert-Amyl alcohol	7770		200	86.0	ug/L	10		8260D	Total/NA

Client Sample ID: SW-1

Lab Sample ID: 680-211414-16

No Detections.

Client Sample ID: SW-2

Lab Sample ID: 680-211414-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl-t-Butyl Ether (MTBE)	0.832	J	5.00	0.810	ug/L	1		8260D	Total/NA

Client Sample ID: SW-3

Lab Sample ID: 680-211414-18

No Detections.

Client Sample ID: FB

Lab Sample ID: 680-211414-19

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: GAC

Lab Sample ID: 680-211414-20

No Detections.

Client Sample ID: TB

Lab Sample ID: 680-211414-21

No Detections.

Client Sample ID: WSW-1

Lab Sample ID: 680-211414-22

No Detections.

Client Sample ID: WSW-Dup

Lab Sample ID: 680-211414-23

No Detections.

Client Sample ID: WSW-FB

Lab Sample ID: 680-211414-24

No Detections.

Client Sample ID: WSW-TB

Lab Sample ID: 680-211414-25

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-1

Lab Sample ID: 680-211414-1

Date Collected: 02/15/22 12:05

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	158		1.00	0.200	ug/L			02/18/22 13:57	1
Toluene	19.3		1.00	0.250	ug/L			02/18/22 13:57	1
Xylenes, Total	67.9		1.00	0.230	ug/L			02/18/22 13:57	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 13:57	1
Naphthalene	78.7		5.00	2.40	ug/L			02/18/22 13:57	1
Isopropyl Ether (DIPE)	160		10.0	0.700	ug/L			02/18/22 13:57	1
tert-Butyl alcohol (TBA)	169	++	50.0	6.90	ug/L			02/18/22 13:57	1
Ethanol	ND		100	50.0	ug/L			02/18/22 13:57	1
Tert-amyl-methyl ether (TAME)	56.9		1.00	0.780	ug/L			02/18/22 13:57	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 13:57	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 13:57	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/18/22 13:57	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 124		02/18/22 13:57	1
4-Bromofluorobenzene (Surr)	94		70 - 130		02/18/22 13:57	1
Dibromofluoromethane (Surr)	99		70 - 130		02/18/22 13:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	624		10.0	2.70	ug/L			02/21/22 19:01	10
Methyl-t-Butyl Ether (MTBE)	264		50.0	8.10	ug/L			02/21/22 19:01	10
tert-Amyl alcohol	3030		200	86.0	ug/L			02/21/22 19:01	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		02/21/22 19:01	10
1,2-Dichloroethane-d4 (Surr)	99		60 - 124		02/21/22 19:01	10
4-Bromofluorobenzene (Surr)	111		70 - 130		02/21/22 19:01	10
Dibromofluoromethane (Surr)	103		70 - 130		02/21/22 19:01	10

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0184	0.00512	ug/L		02/21/22 19:02	02/21/22 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	114		60 - 144	02/21/22 19:02	02/21/22 21:53	1

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Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-2

Lab Sample ID: 680-211414-2

Date Collected: 02/15/22 10:35

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.522	J	1.00	0.200	ug/L			02/18/22 14:21	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 14:21	1
Xylenes, Total	1.34		1.00	0.230	ug/L			02/18/22 14:21	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 14:21	1
Naphthalene	25.7		5.00	2.40	ug/L			02/18/22 14:21	1
Isopropyl Ether (DIPE)	78.2		10.0	0.700	ug/L			02/18/22 14:21	1
tert-Butyl alcohol (TBA)	83.3	*+	50.0	6.90	ug/L			02/18/22 14:21	1
Ethanol	ND		100	50.0	ug/L			02/18/22 14:21	1
Tert-amyl-methyl ether (TAME)	26.9		1.00	0.780	ug/L			02/18/22 14:21	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 14:21	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 14:21	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		02/18/22 14:21	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 124		02/18/22 14:21	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 14:21	1
Dibromofluoromethane (Surr)	101		70 - 130		02/18/22 14:21	1

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	203		5.00	1.35	ug/L			02/21/22 19:20	5
Methyl-t-Butyl Ether (MTBE)	405		25.0	4.05	ug/L			02/21/22 19:20	5
tert-Amyl alcohol	442		100	43.0	ug/L			02/21/22 19:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		02/21/22 19:20	5
1,2-Dichloroethane-d4 (Surr)	102		60 - 124		02/21/22 19:20	5
4-Bromofluorobenzene (Surr)	114		70 - 130		02/21/22 19:20	5
Dibromofluoromethane (Surr)	106		70 - 130		02/21/22 19:20	5

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0185	0.00515	ug/L		02/21/22 19:02	02/21/22 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	103	p	60 - 144	02/21/22 19:02	02/21/22 22:03	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-3

Lab Sample ID: 680-211414-3

Date Collected: 02/15/22 10:22

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/21/22 13:37	1
Ethylbenzene	0.279	J	1.00	0.200	ug/L			02/21/22 13:37	1
Toluene	3.15		1.00	0.250	ug/L			02/21/22 13:37	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 14:45	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 14:45	1
Methyl-t-Butyl Ether (MTBE)	1.95	J	5.00	0.810	ug/L			02/21/22 13:37	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 14:45	1
Isopropyl Ether (DIPE)	0.893	J	10.0	0.700	ug/L			02/21/22 13:37	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 14:45	1
Ethanol	ND		100	50.0	ug/L			02/18/22 14:45	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 14:45	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 14:45	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/21/22 13:37	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 14:45	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 14:45	1
Toluene-d8 (Surr)	104		70 - 130		02/21/22 13:37	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		02/18/22 14:45	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 124		02/21/22 13:37	1
4-Bromofluorobenzene (Surr)	94		70 - 130		02/18/22 14:45	1
4-Bromofluorobenzene (Surr)	111		70 - 130		02/21/22 13:37	1
Dibromofluoromethane (Surr)	104		70 - 130		02/18/22 14:45	1
Dibromofluoromethane (Surr)	108		70 - 130		02/21/22 13:37	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0175	0.00486	ug/L		02/21/22 19:02	02/21/22 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	101		60 - 144	02/21/22 19:02	02/21/22 22:13	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-4

Lab Sample ID: 680-211414-4

Date Collected: 02/15/22 10:13

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/21/22 13:56	1
Ethylbenzene	0.252	J	1.00	0.200	ug/L			02/21/22 13:56	1
Toluene	ND		1.00	0.250	ug/L			02/21/22 13:56	1
Xylenes, Total	1.91		1.00	0.230	ug/L			02/21/22 13:56	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/21/22 13:56	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/21/22 13:56	1
Naphthalene	ND		5.00	2.40	ug/L			02/21/22 13:56	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/21/22 13:56	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/21/22 13:56	1
Ethanol	ND		100	50.0	ug/L			02/21/22 13:56	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/21/22 13:56	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/21/22 13:56	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/21/22 13:56	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/21/22 13:56	1
tert-Butyl Formate	ND	*+	20.0	6.90	ug/L			02/21/22 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		02/21/22 13:56	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 124		02/21/22 13:56	1
4-Bromofluorobenzene (Surr)	118		70 - 130		02/21/22 13:56	1
Dibromofluoromethane (Surr)	108		70 - 130		02/21/22 13:56	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0183	0.00509	ug/L		02/21/22 19:02	02/21/22 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	93		60 - 144	02/21/22 19:02	02/21/22 22:23	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-5

Lab Sample ID: 680-211414-5

Date Collected: 02/15/22 10:29

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 15:32	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 15:32	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 15:32	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 15:32	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 15:32	1
Methyl-t-Butyl Ether (MTBE)	14.3		5.00	0.810	ug/L			02/18/22 15:32	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 15:32	1
Isopropyl Ether (DIPE)	3.06	J	10.0	0.700	ug/L			02/18/22 15:32	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 15:32	1
Ethanol	ND		100	50.0	ug/L			02/18/22 15:32	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 15:32	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 15:32	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 15:32	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 15:32	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 15:32	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		02/18/22 15:32	1
4-Bromofluorobenzene (Surr)	92		70 - 130		02/18/22 15:32	1
Dibromofluoromethane (Surr)	104		70 - 130		02/18/22 15:32	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0183	0.00509	ug/L		02/21/22 19:02	02/21/22 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	96		60 - 144	02/21/22 19:02	02/21/22 22:33	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-6

Lab Sample ID: 680-211414-6

Date Collected: 02/15/22 10:53

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	356		5.00	1.35	ug/L			02/18/22 20:41	5
Ethylbenzene	134		5.00	1.00	ug/L			02/18/22 20:41	5
Toluene	30.1		5.00	1.25	ug/L			02/18/22 20:41	5
Xylenes, Total	11.6		5.00	1.15	ug/L			02/18/22 20:41	5
1,2-Dichloroethane	ND		5.00	1.25	ug/L			02/18/22 20:41	5
Methyl-t-Butyl Ether (MTBE)	166		25.0	4.05	ug/L			02/18/22 20:41	5
Naphthalene	87.5		25.0	12.0	ug/L			02/18/22 20:41	5
Isopropyl Ether (DIPE)	122		50.0	3.50	ug/L			02/18/22 20:41	5
tert-Butyl alcohol (TBA)	86.6	J **	250	34.5	ug/L			02/18/22 20:41	5
Ethanol	ND		500	250	ug/L			02/18/22 20:41	5
Tert-amyl-methyl ether (TAME)	46.4		5.00	3.90	ug/L			02/18/22 20:41	5
Ethyl tert-Butyl Ether (ETBE)	ND		5.00	3.60	ug/L			02/18/22 20:41	5
tert-Amyl alcohol	2410		100	43.0	ug/L			02/18/22 20:41	5
3,3-Dimethyl-1-butanol	ND		100	35.0	ug/L			02/18/22 20:41	5
tert-Butyl Formate	ND		100	34.5	ug/L			02/18/22 20:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		02/18/22 20:41	5
1,2-Dichloroethane-d4 (Surr)	90		60 - 124		02/18/22 20:41	5
4-Bromofluorobenzene (Surr)	89		70 - 130		02/18/22 20:41	5
Dibromofluoromethane (Surr)	100		70 - 130		02/18/22 20:41	5

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0179	0.00497	ug/L		02/21/22 19:02	02/21/22 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	99		60 - 144	02/21/22 19:02	02/21/22 22:42	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-7

Lab Sample ID: 680-211414-7

Date Collected: 02/15/22 12:24

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	37.2		1.00	0.270	ug/L			02/18/22 15:56	1
Ethylbenzene	82.1		1.00	0.200	ug/L			02/18/22 15:56	1
Toluene	0.699	J	1.00	0.250	ug/L			02/18/22 15:56	1
Xylenes, Total	3.95		1.00	0.230	ug/L			02/18/22 15:56	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 15:56	1
Methyl-t-Butyl Ether (MTBE)	15.8		5.00	0.810	ug/L			02/18/22 15:56	1
Naphthalene	58.3		5.00	2.40	ug/L			02/18/22 15:56	1
Isopropyl Ether (DIPE)	20.3		10.0	0.700	ug/L			02/18/22 15:56	1
tert-Butyl alcohol (TBA)	31.3	J **	50.0	6.90	ug/L			02/18/22 15:56	1
Ethanol	ND		100	50.0	ug/L			02/18/22 15:56	1
Tert-amyl-methyl ether (TAME)	4.67		1.00	0.780	ug/L			02/18/22 15:56	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 15:56	1
tert-Amyl alcohol	1030		20.0	8.60	ug/L			02/18/22 15:56	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 15:56	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 15:56	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		02/18/22 15:56	1
4-Bromofluorobenzene (Surr)	91		70 - 130		02/18/22 15:56	1
Dibromofluoromethane (Surr)	101		70 - 130		02/18/22 15:56	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0177	0.00492	ug/L		02/21/22 19:02	02/21/22 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	109		60 - 144	02/21/22 19:02	02/21/22 22:52	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-8

Lab Sample ID: 680-211414-8

Date Collected: 02/15/22 11:15

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3720		50.0	13.5	ug/L			02/18/22 21:04	50
Ethylbenzene	2200		50.0	10.0	ug/L			02/18/22 21:04	50
Xylenes, Total	12800		50.0	11.5	ug/L			02/18/22 21:04	50
1,2-Dichloroethane	ND		50.0	12.5	ug/L			02/18/22 21:04	50
Methyl-t-Butyl Ether (MTBE)	690		250	40.5	ug/L			02/18/22 21:04	50
Naphthalene	781		250	120	ug/L			02/18/22 21:04	50
Isopropyl Ether (DIPE)	268 J		500	35.0	ug/L			02/18/22 21:04	50
tert-Butyl alcohol (TBA)	370 J *+		2500	345	ug/L			02/18/22 21:04	50
Ethanol	ND		5000	2500	ug/L			02/18/22 21:04	50
Tert-amyl-methyl ether (TAME)	127		50.0	39.0	ug/L			02/18/22 21:04	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			02/18/22 21:04	50
tert-Amyl alcohol	8690		1000	430	ug/L			02/18/22 21:04	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			02/18/22 21:04	50
tert-Butyl Formate	ND		1000	345	ug/L			02/18/22 21:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 21:04	50
1,2-Dichloroethane-d4 (Surr)	90		60 - 124		02/18/22 21:04	50
4-Bromofluorobenzene (Surr)	89		70 - 130		02/18/22 21:04	50
Dibromofluoromethane (Surr)	99		70 - 130		02/18/22 21:04	50

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	21100		200	50.0	ug/L			02/21/22 17:25	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		02/21/22 17:25	200
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		02/21/22 17:25	200
4-Bromofluorobenzene (Surr)	117		70 - 130		02/21/22 17:25	200
Dibromofluoromethane (Surr)	104		70 - 130		02/21/22 17:25	200

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	0.121		0.0177	0.00492	ug/L		02/21/22 19:02	02/21/22 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	100		60 - 144	02/21/22 19:02	02/21/22 23:02	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-9

Lab Sample ID: 680-211414-9

Date Collected: 02/15/22 11:25

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.278	J	1.00	0.270	ug/L			02/18/22 16:19	1
Ethylbenzene	4.80		1.00	0.200	ug/L			02/18/22 16:19	1
Toluene	3.89		1.00	0.250	ug/L			02/18/22 16:19	1
Xylenes, Total	27.4		1.00	0.230	ug/L			02/18/22 16:19	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 16:19	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 16:19	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 16:19	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 16:19	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 16:19	1
Ethanol	ND		100	50.0	ug/L			02/18/22 16:19	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 16:19	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 16:19	1
tert-Amyl alcohol	77.4		20.0	8.60	ug/L			02/18/22 16:19	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 16:19	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		02/18/22 16:19	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		02/18/22 16:19	1
4-Bromofluorobenzene (Surr)	92		70 - 130		02/18/22 16:19	1
Dibromofluoromethane (Surr)	103		70 - 130		02/18/22 16:19	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0178	0.00494	ug/L		02/21/22 19:02	02/21/22 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	79		60 - 144	02/21/22 19:02	02/21/22 23:12	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-10

Lab Sample ID: 680-211414-10

Date Collected: 02/15/22 11:35

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1070		50.0	13.5	ug/L			02/18/22 21:28	50
Ethylbenzene	753		50.0	10.0	ug/L			02/18/22 21:28	50
Toluene	297		50.0	12.5	ug/L			02/21/22 14:26	50
Xylenes, Total	2380		50.0	11.5	ug/L			02/18/22 21:28	50
1,2-Dichloroethane	ND		50.0	12.5	ug/L			02/18/22 21:28	50
Methyl-t-Butyl Ether (MTBE)	510		250	40.5	ug/L			02/18/22 21:28	50
Naphthalene	342		250	120	ug/L			02/18/22 21:28	50
Isopropyl Ether (DIPE)	339 J		500	35.0	ug/L			02/18/22 21:28	50
tert-Butyl alcohol (TBA)	ND	*+	2500	345	ug/L			02/18/22 21:28	50
Ethanol	ND		5000	2500	ug/L			02/18/22 21:28	50
Tert-amyl-methyl ether (TAME)	120		50.0	39.0	ug/L			02/18/22 21:28	50
Ethyl tert-Butyl Ether (ETBE)	ND		50.0	36.0	ug/L			02/18/22 21:28	50
tert-Amyl alcohol	7950		1000	430	ug/L			02/18/22 21:28	50
3,3-Dimethyl-1-butanol	ND		1000	350	ug/L			02/18/22 21:28	50
tert-Butyl Formate	ND		1000	345	ug/L			02/18/22 21:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		02/18/22 21:28	50
Toluene-d8 (Surr)	98		70 - 130		02/21/22 14:26	50
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		02/18/22 21:28	50
1,2-Dichloroethane-d4 (Surr)	91		60 - 124		02/21/22 14:26	50
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 21:28	50
4-Bromofluorobenzene (Surr)	90		70 - 130		02/21/22 14:26	50
Dibromofluoromethane (Surr)	102		70 - 130		02/18/22 21:28	50
Dibromofluoromethane (Surr)	100		70 - 130		02/21/22 14:26	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0183	0.00507	ug/L		02/21/22 19:02	02/21/22 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	117	p	60 - 144	02/21/22 19:02	02/21/22 23:22	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: DW-1

Lab Sample ID: 680-211414-11

Date Collected: 02/15/22 11:56

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 17:55	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 17:55	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 17:55	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 17:55	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 17:55	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 17:55	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 17:55	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 17:55	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 17:55	1
Ethanol	ND		100	50.0	ug/L			02/18/22 17:55	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 17:55	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 17:55	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 17:55	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 17:55	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/18/22 17:55	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		02/18/22 17:55	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 17:55	1
Dibromofluoromethane (Surr)	101		70 - 130		02/18/22 17:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0190	0.00529	ug/L		02/21/22 19:02	02/21/22 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	89		60 - 144	02/21/22 19:02	02/21/22 23:31	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: DW-2

Lab Sample ID: 680-211414-12

Date Collected: 02/15/22 10:42

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 18:18	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 18:18	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 18:18	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 18:18	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 18:18	1
Methyl-t-Butyl Ether (MTBE)	7.40		5.00	0.810	ug/L			02/18/22 18:18	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 18:18	1
Isopropyl Ether (DIPE)	2.61	J	10.0	0.700	ug/L			02/18/22 18:18	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 18:18	1
Ethanol	ND		100	50.0	ug/L			02/18/22 18:18	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 18:18	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 18:18	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 18:18	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 18:18	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 18:18	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		02/18/22 18:18	1
4-Bromofluorobenzene (Surr)	91		70 - 130		02/18/22 18:18	1
Dibromofluoromethane (Surr)	104		70 - 130		02/18/22 18:18	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0184	0.00510	ug/L		02/21/22 19:02	02/21/22 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	92		60 - 144	02/21/22 19:02	02/21/22 23:41	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: DW-3

Lab Sample ID: 680-211414-13

Date Collected: 02/15/22 12:17

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 18:42	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 18:42	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 18:42	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 18:42	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 18:42	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 18:42	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 18:42	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 18:42	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 18:42	1
Ethanol	ND		100	50.0	ug/L			02/18/22 18:42	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 18:42	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 18:42	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 18:42	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 18:42	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/18/22 18:42	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		02/18/22 18:42	1
4-Bromofluorobenzene (Surr)	94		70 - 130		02/18/22 18:42	1
Dibromofluoromethane (Surr)	102		70 - 130		02/18/22 18:42	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0175	0.00485	ug/L		02/21/22 19:02	02/21/22 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	90		60 - 144	02/21/22 19:02	02/21/22 23:51	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: DW-4

Lab Sample ID: 680-211414-14

Date Collected: 02/15/22 11:01

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	67.5		1.00	0.270	ug/L			02/20/22 20:42	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/20/22 20:42	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/20/22 20:42	1
Isopropyl Ether (DIPE)	1.69	J	10.0	0.700	ug/L			02/20/22 20:42	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 20:42	1
Ethanol	ND		100	50.0	ug/L			02/20/22 20:42	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 20:42	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 20:42	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 20:42	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 20:42	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		02/20/22 20:42	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 124		02/20/22 20:42	1
4-Bromofluorobenzene (Surr)	84		70 - 130		02/20/22 20:42	1
Dibromofluoromethane (Surr)	91		70 - 130		02/20/22 20:42	1

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	611		5.00	1.00	ug/L			02/18/22 21:52	5
Toluene	1890		50.0	12.5	ug/L			02/21/22 18:41	50
Xylenes, Total	4230		50.0	11.5	ug/L			02/21/22 18:41	50
Naphthalene	181		25.0	12.0	ug/L			02/18/22 21:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		02/18/22 21:52	5
Toluene-d8 (Surr)	106		70 - 130		02/21/22 18:41	50
1,2-Dichloroethane-d4 (Surr)	88		60 - 124		02/18/22 21:52	5
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		02/21/22 18:41	50
4-Bromofluorobenzene (Surr)	89		70 - 130		02/18/22 21:52	5
4-Bromofluorobenzene (Surr)	109		70 - 130		02/21/22 18:41	50
Dibromofluoromethane (Surr)	96		70 - 130		02/18/22 21:52	5
Dibromofluoromethane (Surr)	104		70 - 130		02/21/22 18:41	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0176	0.00489	ug/L		02/21/22 19:02	02/21/22 21:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	95		60 - 144				02/21/22 19:02	02/21/22 21:04	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: Dup

Lab Sample ID: 680-211414-15

Date Collected: 02/15/22 00:00

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1090		10.0	2.70	ug/L			02/18/22 22:16	10
Ethylbenzene	783		10.0	2.00	ug/L			02/18/22 22:16	10
Toluene	359		10.0	2.50	ug/L			02/18/22 22:16	10
Xylenes, Total	2440		10.0	2.30	ug/L			02/18/22 22:16	10
1,2-Dichloroethane	ND		10.0	2.50	ug/L			02/18/22 22:16	10
Methyl-t-Butyl Ether (MTBE)	496		50.0	8.10	ug/L			02/18/22 22:16	10
Naphthalene	325		50.0	24.0	ug/L			02/18/22 22:16	10
Isopropyl Ether (DIPE)	343		100	7.00	ug/L			02/18/22 22:16	10
tert-Butyl alcohol (TBA)	298	J **	500	69.0	ug/L			02/18/22 22:16	10
Ethanol	ND		1000	500	ug/L			02/18/22 22:16	10
Tert-amyl-methyl ether (TAME)	129		10.0	7.80	ug/L			02/18/22 22:16	10
Ethyl tert-Butyl Ether (ETBE)	ND		10.0	7.20	ug/L			02/18/22 22:16	10
tert-Amyl alcohol	7770		200	86.0	ug/L			02/18/22 22:16	10
3,3-Dimethyl-1-butanol	ND		200	70.0	ug/L			02/18/22 22:16	10
tert-Butyl Formate	ND		200	69.0	ug/L			02/18/22 22:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/18/22 22:16	10
1,2-Dichloroethane-d4 (Surr)	87		60 - 124		02/18/22 22:16	10
4-Bromofluorobenzene (Surr)	90		70 - 130		02/18/22 22:16	10
Dibromofluoromethane (Surr)	98		70 - 130		02/18/22 22:16	10

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0179	0.00499	ug/L		02/21/22 19:02	02/22/22 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	140		60 - 144	02/21/22 19:02	02/22/22 00:01	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: SW-1

Lab Sample ID: 680-211414-16

Date Collected: 02/15/22 12:41

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 16:43	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 16:43	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 16:43	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 16:43	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 16:43	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 16:43	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 16:43	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 16:43	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 16:43	1
Ethanol	ND		100	50.0	ug/L			02/18/22 16:43	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 16:43	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 16:43	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 16:43	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 16:43	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 16:43	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		02/18/22 16:43	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 16:43	1
Dibromofluoromethane (Surr)	101		70 - 130		02/18/22 16:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0181	0.00503	ug/L		02/21/22 19:02	02/21/22 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	92		60 - 144	02/21/22 19:02	02/21/22 21:24	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: SW-2

Lab Sample ID: 680-211414-17

Date Collected: 02/15/22 12:42

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 17:07	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 17:07	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 17:07	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 17:07	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 17:07	1
Methyl-t-Butyl Ether (MTBE)	0.832	J	5.00	0.810	ug/L			02/18/22 17:07	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 17:07	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 17:07	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 17:07	1
Ethanol	ND		100	50.0	ug/L			02/18/22 17:07	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 17:07	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 17:07	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 17:07	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 17:07	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/18/22 17:07	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		02/18/22 17:07	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 17:07	1
Dibromofluoromethane (Surr)	101		70 - 130		02/18/22 17:07	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0178	0.00494	ug/L		02/21/22 19:02	02/22/22 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	92		60 - 144	02/21/22 19:02	02/22/22 00:11	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: SW-3

Lab Sample ID: 680-211414-18

Date Collected: 02/15/22 12:50

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 17:31	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 17:31	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 17:31	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 17:31	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 17:31	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 17:31	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 17:31	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 17:31	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 17:31	1
Ethanol	ND		100	50.0	ug/L			02/18/22 17:31	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 17:31	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 17:31	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 17:31	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 17:31	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		02/18/22 17:31	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 124		02/18/22 17:31	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 17:31	1
Dibromofluoromethane (Surr)	101		70 - 130		02/18/22 17:31	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0179	0.00497	ug/L		02/21/22 19:02	02/22/22 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	88		60 - 144	02/21/22 19:02	02/22/22 00:21	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: FB

Lab Sample ID: 680-211414-19

Date Collected: 02/15/22 12:24

Matrix: Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 19:06	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 19:06	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 19:06	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 19:06	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 19:06	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 19:06	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 19:06	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 19:06	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 19:06	1
Ethanol	ND		100	50.0	ug/L			02/18/22 19:06	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 19:06	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 19:06	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 19:06	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 19:06	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/18/22 19:06	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		02/18/22 19:06	1
4-Bromofluorobenzene (Surr)	90		70 - 130		02/18/22 19:06	1
Dibromofluoromethane (Surr)	103		70 - 130		02/18/22 19:06	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0181	0.00501	ug/L		02/21/22 19:02	02/22/22 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	89		60 - 144	02/21/22 19:02	02/22/22 00:30	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: GAC

Lab Sample ID: 680-211414-20

Date Collected: 02/15/22 12:26

Matrix: Ground Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 19:30	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 19:30	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 19:30	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 19:30	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 19:30	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 19:30	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 19:30	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 19:30	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			02/18/22 19:30	1
Ethanol	ND		100	50.0	ug/L			02/18/22 19:30	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 19:30	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 19:30	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 19:30	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 19:30	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/18/22 19:30	1
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		02/18/22 19:30	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 19:30	1
Dibromofluoromethane (Surr)	103		70 - 130		02/18/22 19:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0175	0.00487	ug/L		02/21/22 19:02	02/22/22 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	87		60 - 144	02/21/22 19:02	02/22/22 00:40	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: TB

Lab Sample ID: 680-211414-21

Date Collected: 02/15/22 08:00

Matrix: Water

Date Received: 02/16/22 15:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/20/22 17:34	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/20/22 17:34	1
Toluene	ND		1.00	0.250	ug/L			02/20/22 17:34	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/20/22 17:34	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/20/22 17:34	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/20/22 17:34	1
Naphthalene	ND		5.00	2.40	ug/L			02/20/22 17:34	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/20/22 17:34	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 17:34	1
Ethanol	ND		100	50.0	ug/L			02/20/22 17:34	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 17:34	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 17:34	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 17:34	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 17:34	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					02/20/22 17:34	1
1,2-Dichloroethane-d4 (Surr)	88		60 - 124					02/20/22 17:34	1
4-Bromofluorobenzene (Surr)	92		70 - 130					02/20/22 17:34	1
Dibromofluoromethane (Surr)	102		70 - 130					02/20/22 17:34	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: WSW-1

Lab Sample ID: 680-211414-22

Date Collected: 02/15/22 14:20

Matrix: Drinking Water

Date Received: 02/16/22 15:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.0820	ug/L			02/19/22 18:56	1
1,2-Dichloroethane	ND		0.500	0.0860	ug/L			02/19/22 18:56	1
Ethylbenzene	ND		0.500	0.0990	ug/L			02/19/22 18:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.500	0.0930	ug/L			02/19/22 18:56	1
Naphthalene	ND		1.00	0.430	ug/L			02/19/22 18:56	1
Toluene	ND		0.500	0.0860	ug/L			02/19/22 18:56	1
Xylenes, Total	ND		0.500	0.0860	ug/L			02/19/22 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		70 - 130		02/19/22 18:56	1
1,2-Dichlorobenzene-d4 (Surr)	97		70 - 130		02/19/22 18:56	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/20/22 21:06	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 21:06	1
Ethanol	ND		100	50.0	ug/L			02/20/22 21:06	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 21:06	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 21:06	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 21:06	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 21:06	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/20/22 21:06	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 124		02/20/22 21:06	1
4-Bromofluorobenzene (Surr)	91		70 - 130		02/20/22 21:06	1
Dibromofluoromethane (Surr)	101		70 - 130		02/20/22 21:06	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0185	0.00513	ug/L		02/18/22 18:34	02/18/22 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	97		70 - 130	02/18/22 18:34	02/18/22 23:23	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: WSW-Dup

Lab Sample ID: 680-211414-23

Date Collected: 02/15/22 00:00

Matrix: Drinking Water

Date Received: 02/16/22 15:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.0820	ug/L			02/19/22 19:22	1
1,2-Dichloroethane	ND		0.500	0.0860	ug/L			02/19/22 19:22	1
Ethylbenzene	ND		0.500	0.0990	ug/L			02/19/22 19:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.500	0.0930	ug/L			02/19/22 19:22	1
Naphthalene	ND		1.00	0.430	ug/L			02/19/22 19:22	1
Toluene	ND		0.500	0.0860	ug/L			02/19/22 19:22	1
Xylenes, Total	ND		0.500	0.0860	ug/L			02/19/22 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		70 - 130		02/19/22 19:22	1
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130		02/19/22 19:22	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/20/22 21:29	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 21:29	1
Ethanol	ND		100	50.0	ug/L			02/20/22 21:29	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 21:29	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 21:29	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 21:29	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 21:29	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/20/22 21:29	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 124		02/20/22 21:29	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/20/22 21:29	1
Dibromofluoromethane (Surr)	104		70 - 130		02/20/22 21:29	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0181	0.00501	ug/L		02/18/22 18:34	02/18/22 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	93		70 - 130	02/18/22 18:34	02/18/22 23:33	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: WSW-FB

Lab Sample ID: 680-211414-24

Date Collected: 02/15/22 14:35

Matrix: Water

Date Received: 02/16/22 15:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.0820	ug/L			02/18/22 12:55	1
1,2-Dichloroethane	ND		0.500	0.0860	ug/L			02/18/22 12:55	1
Ethylbenzene	ND		0.500	0.0990	ug/L			02/18/22 12:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.500	0.0930	ug/L			02/18/22 12:55	1
Naphthalene	ND		1.00	0.430	ug/L			02/18/22 12:55	1
Toluene	ND		0.500	0.0860	ug/L			02/18/22 12:55	1
Xylenes, Total	ND		0.500	0.0860	ug/L			02/18/22 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		70 - 130		02/18/22 12:55	1
1,2-Dichlorobenzene-d4 (Surr)	103		70 - 130		02/18/22 12:55	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/20/22 17:57	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 17:57	1
Ethanol	ND		100	50.0	ug/L			02/20/22 17:57	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 17:57	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 17:57	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 17:57	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 17:57	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/20/22 17:57	1
1,2-Dichloroethane-d4 (Surr)	88		60 - 124		02/20/22 17:57	1
4-Bromofluorobenzene (Surr)	91		70 - 130		02/20/22 17:57	1
Dibromofluoromethane (Surr)	103		70 - 130		02/20/22 17:57	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0179	0.00499	ug/L		02/18/22 18:34	02/18/22 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	97		70 - 130	02/18/22 18:34	02/18/22 23:43	1

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: WSW-TB

Lab Sample ID: 680-211414-25

Date Collected: 02/15/22 08:00

Matrix: Water

Date Received: 02/16/22 15:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.0820	ug/L			02/18/22 13:28	1
1,2-Dichloroethane	ND		0.500	0.0860	ug/L			02/18/22 13:28	1
Ethylbenzene	ND		0.500	0.0990	ug/L			02/18/22 13:28	1
Methyl-t-Butyl Ether (MTBE)	ND		0.500	0.0930	ug/L			02/18/22 13:28	1
Naphthalene	ND		1.00	0.430	ug/L			02/18/22 13:28	1
Toluene	ND		0.500	0.0860	ug/L			02/18/22 13:28	1
Xylenes, Total	ND		0.500	0.0860	ug/L			02/18/22 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		70 - 130		02/18/22 13:28	1
1,2-Dichlorobenzene-d4 (Surr)	97		70 - 130		02/18/22 13:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/20/22 18:44	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 18:44	1
Ethanol	ND		100	50.0	ug/L			02/20/22 18:44	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 18:44	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 18:44	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 18:44	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 18:44	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		02/20/22 18:44	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 124		02/20/22 18:44	1
4-Bromofluorobenzene (Surr)	88		70 - 130		02/20/22 18:44	1
Dibromofluoromethane (Surr)	103		70 - 130		02/20/22 18:44	1

QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-707468/9

Matrix: Water

Analysis Batch: 707468

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.0820	ug/L			02/18/22 12:13	1
1,2-Dichloroethane	ND		0.500	0.0860	ug/L			02/18/22 12:13	1
Ethylbenzene	ND		0.500	0.0990	ug/L			02/18/22 12:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.500	0.0930	ug/L			02/18/22 12:13	1
Naphthalene	ND		1.00	0.430	ug/L			02/18/22 12:13	1
Toluene	ND		0.500	0.0860	ug/L			02/18/22 12:13	1
Xylenes, Total	ND		0.500	0.0860	ug/L			02/18/22 12:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130					02/18/22 12:13	1
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130					02/18/22 12:13	1

Lab Sample ID: LCS 680-707468/4

Matrix: Water

Analysis Batch: 707468

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.36		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	25.38		ug/L		102	70 - 130
Ethylbenzene	25.0	24.39		ug/L		98	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	23.06		ug/L		92	70 - 130
Naphthalene	25.0	26.36		ug/L		105	70 - 130
Toluene	25.0	25.13		ug/L		101	70 - 130
Xylenes, Total	50.0	47.33		ug/L		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	85		70 - 130				
1,2-Dichlorobenzene-d4 (Surr)	100		70 - 130				

Lab Sample ID: LCSD 680-707468/5

Matrix: Water

Analysis Batch: 707468

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	25.0	24.53		ug/L		98	70 - 130	3	20
1,2-Dichloroethane	25.0	24.20		ug/L		97	70 - 130	5	20
Ethylbenzene	25.0	25.56		ug/L		102	70 - 130	5	20
Methyl-t-Butyl Ether (MTBE)	25.0	24.61		ug/L		98	70 - 130	7	20
Naphthalene	25.0	26.82		ug/L		107	70 - 130	2	20
Toluene	25.0	22.97		ug/L		92	70 - 130	9	20
Xylenes, Total	50.0	49.61		ug/L		99	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	92		70 - 130						
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130						

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-707614/9

Matrix: Water

Analysis Batch: 707614

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500	0.0820	ug/L			02/19/22 16:44	1
1,2-Dichloroethane	ND		0.500	0.0860	ug/L			02/19/22 16:44	1
Ethylbenzene	ND		0.500	0.0990	ug/L			02/19/22 16:44	1
Methyl-t-Butyl Ether (MTBE)	ND		0.500	0.0930	ug/L			02/19/22 16:44	1
Naphthalene	ND		1.00	0.430	ug/L			02/19/22 16:44	1
Toluene	ND		0.500	0.0860	ug/L			02/19/22 16:44	1
Xylenes, Total	ND		0.500	0.0860	ug/L			02/19/22 16:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130					02/19/22 16:44	1
1,2-Dichlorobenzene-d4 (Surr)	100		70 - 130					02/19/22 16:44	1

Lab Sample ID: LCS 680-707614/4

Matrix: Water

Analysis Batch: 707614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.45		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	24.25		ug/L		97	70 - 130
Ethylbenzene	25.0	24.49		ug/L		98	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	27.46		ug/L		110	70 - 130
Naphthalene	25.0	28.08		ug/L		112	70 - 130
Toluene	25.0	25.78		ug/L		103	70 - 130
Xylenes, Total	50.0	49.14		ug/L		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	97		70 - 130				
1,2-Dichlorobenzene-d4 (Surr)	98		70 - 130				

Lab Sample ID: LCSD 680-707614/5

Matrix: Water

Analysis Batch: 707614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	25.0	24.43		ug/L		98	70 - 130	0	20
1,2-Dichloroethane	25.0	24.49		ug/L		98	70 - 130	1	20
Ethylbenzene	25.0	24.30		ug/L		97	70 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	25.0	28.83		ug/L		115	70 - 130	5	20
Naphthalene	25.0	28.35		ug/L		113	70 - 130	1	20
Toluene	25.0	25.94		ug/L		104	70 - 130	1	20
Xylenes, Total	50.0	49.13		ug/L		98	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene	98		70 - 130						
1,2-Dichlorobenzene-d4 (Surr)	103		70 - 130						

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-707475/9

Matrix: Water

Analysis Batch: 707475

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/18/22 13:33	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/18/22 13:33	1
Toluene	ND		1.00	0.250	ug/L			02/18/22 13:33	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/18/22 13:33	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/18/22 13:33	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/18/22 13:33	1
Naphthalene	ND		5.00	2.40	ug/L			02/18/22 13:33	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/18/22 13:33	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/18/22 13:33	1
Ethanol	ND		100	50.0	ug/L			02/18/22 13:33	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/18/22 13:33	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/18/22 13:33	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/18/22 13:33	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/18/22 13:33	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/18/22 13:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/18/22 13:33	1
1,2-Dichloroethane-d4 (Surr)	96		60 - 124		02/18/22 13:33	1
4-Bromofluorobenzene (Surr)	93		70 - 130		02/18/22 13:33	1
Dibromofluoromethane (Surr)	103		70 - 130		02/18/22 13:33	1

Lab Sample ID: LCS 680-707475/4

Matrix: Water

Analysis Batch: 707475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.69		ug/L		95	70 - 130
Ethylbenzene	50.0	49.41		ug/L		99	70 - 130
Toluene	50.0	46.45		ug/L		93	70 - 130
Xylenes, Total	100	98.42		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	47.97		ug/L		96	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	52.86		ug/L		106	70 - 130
Naphthalene	50.0	51.60		ug/L		103	57 - 149
tert-Butyl alcohol (TBA)	500	652.0	*+	ug/L		130	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		60 - 124
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: LCSD 680-707475/5

Matrix: Water

Analysis Batch: 707475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	47.99		ug/L		96	70 - 130	1	30

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-707475/5

Matrix: Water

Analysis Batch: 707475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	49.29		ug/L		99	70 - 130	0	20
Toluene	50.0	47.23		ug/L		94	70 - 130	2	30
Xylenes, Total	100	98.83		ug/L		99	70 - 130	0	30
1,2-Dichloroethane	50.0	47.58		ug/L		95	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	50.0	52.21		ug/L		104	70 - 130	1	30
Naphthalene	50.0	50.68		ug/L		101	57 - 149	2	30
tert-Butyl alcohol (TBA)	500	645.2	*+	ug/L		129	57 - 120	1	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		60 - 124
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

Lab Sample ID: MB 680-707645/9

Matrix: Water

Analysis Batch: 707645

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/20/22 15:04	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/20/22 15:04	1
Toluene	ND		1.00	0.250	ug/L			02/20/22 15:04	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/20/22 15:04	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/20/22 15:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/20/22 15:04	1
Naphthalene	ND		5.00	2.40	ug/L			02/20/22 15:04	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/20/22 15:04	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/20/22 15:04	1
Ethanol	ND		100	50.0	ug/L			02/20/22 15:04	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/20/22 15:04	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/20/22 15:04	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/20/22 15:04	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/20/22 15:04	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/20/22 15:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/20/22 15:04	1
1,2-Dichloroethane-d4 (Surr)	90		60 - 124		02/20/22 15:04	1
4-Bromofluorobenzene (Surr)	91		70 - 130		02/20/22 15:04	1
Dibromofluoromethane (Surr)	103		70 - 130		02/20/22 15:04	1

Lab Sample ID: LCS 680-707645/4

Matrix: Water

Analysis Batch: 707645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.48		ug/L		97	70 - 130
Ethylbenzene	50.0	49.90		ug/L		100	70 - 130

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-707645/4

Matrix: Water

Analysis Batch: 707645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	47.85		ug/L		96	70 - 130
Xylenes, Total	100	99.97		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	46.39		ug/L		93	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	49.84		ug/L		100	70 - 130
Naphthalene	50.0	48.13		ug/L		96	57 - 149
tert-Butyl alcohol (TBA)	500	497.6		ug/L		100	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		60 - 124
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: LCSD 680-707645/5

Matrix: Water

Analysis Batch: 707645

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	48.53		ug/L		97	70 - 130	0	30
Ethylbenzene	50.0	49.18		ug/L		98	70 - 130	1	20
Toluene	50.0	47.81		ug/L		96	70 - 130	0	30
Xylenes, Total	100	97.72		ug/L		98	70 - 130	2	30
1,2-Dichloroethane	50.0	45.68		ug/L		91	70 - 130	2	50
Methyl-t-Butyl Ether (MTBE)	50.0	49.66		ug/L		99	70 - 130	0	30
Naphthalene	50.0	48.05		ug/L		96	57 - 149	0	30
tert-Butyl alcohol (TBA)	500	495.9		ug/L		99	57 - 120	0	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		60 - 124
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Lab Sample ID: LB 680-707460/1-A

Matrix: Water

Analysis Batch: 707673

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		20.0	5.40	ug/L			02/21/22 15:36	20
Ethylbenzene	ND		20.0	4.00	ug/L			02/21/22 15:36	20
Toluene	ND		20.0	5.00	ug/L			02/21/22 15:36	20
Xylenes, Total	ND		20.0	4.60	ug/L			02/21/22 15:36	20
1,2-Dichloroethane	ND		20.0	5.00	ug/L			02/21/22 15:36	20
Methyl-t-Butyl Ether (MTBE)	ND		100	16.2	ug/L			02/21/22 15:36	20
Naphthalene	ND		100	48.0	ug/L			02/21/22 15:36	20
Isopropyl Ether (DIPE)	ND		200	14.0	ug/L			02/21/22 15:36	20
tert-Butyl alcohol (TBA)	ND		1000	138	ug/L			02/21/22 15:36	20
Ethanol	ND		2000	1000	ug/L			02/21/22 15:36	20

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 680-707460/1-A

Matrix: Water

Analysis Batch: 707673

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		20.0	15.6	ug/L			02/21/22 15:36	20
Ethyl tert-Butyl Ether (ETBE)	ND		20.0	14.4	ug/L			02/21/22 15:36	20
tert-Amyl alcohol	ND		400	172	ug/L			02/21/22 15:36	20
3,3-Dimethyl-1-butanol	ND		400	140	ug/L			02/21/22 15:36	20
tert-Butyl Formate	ND		400	138	ug/L			02/21/22 15:36	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		02/21/22 15:36	20
1,2-Dichloroethane-d4 (Surr)	91		60 - 124		02/21/22 15:36	20
4-Bromofluorobenzene (Surr)	88		70 - 130		02/21/22 15:36	20
Dibromofluoromethane (Surr)	105		70 - 130		02/21/22 15:36	20

Lab Sample ID: MB 680-707673/9

Matrix: Water

Analysis Batch: 707673

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/21/22 13:15	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/21/22 13:15	1
Toluene	ND		1.00	0.250	ug/L			02/21/22 13:15	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/21/22 13:15	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/21/22 13:15	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/21/22 13:15	1
Naphthalene	ND		5.00	2.40	ug/L			02/21/22 13:15	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/21/22 13:15	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/21/22 13:15	1
Ethanol	ND		100	50.0	ug/L			02/21/22 13:15	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/21/22 13:15	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/21/22 13:15	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/21/22 13:15	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/21/22 13:15	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/21/22 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		02/21/22 13:15	1
1,2-Dichloroethane-d4 (Surr)	89		60 - 124		02/21/22 13:15	1
4-Bromofluorobenzene (Surr)	88		70 - 130		02/21/22 13:15	1
Dibromofluoromethane (Surr)	104		70 - 130		02/21/22 13:15	1

Lab Sample ID: LCS 680-707673/4

Matrix: Water

Analysis Batch: 707673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.02		ug/L		94	70 - 130
Ethylbenzene	50.0	49.30		ug/L		99	70 - 130
Toluene	50.0	46.26		ug/L		93	70 - 130
Xylenes, Total	100	100.0		ug/L		100	70 - 130

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-707673/4

Matrix: Water

Analysis Batch: 707673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	43.40		ug/L		87	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	48.32		ug/L		97	70 - 130
Naphthalene	50.0	48.43		ug/L		97	57 - 149
tert-Butyl alcohol (TBA)	500	436.6		ug/L		87	57 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		60 - 124
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Lab Sample ID: LCSD 680-707673/5

Matrix: Water

Analysis Batch: 707673

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	48.07		ug/L		96	70 - 130	2	30
Ethylbenzene	50.0	48.99		ug/L		98	70 - 130	1	20
Toluene	50.0	47.55		ug/L		95	70 - 130	3	30
Xylenes, Total	100	99.77		ug/L		100	70 - 130	0	30
1,2-Dichloroethane	50.0	44.55		ug/L		89	70 - 130	3	50
Methyl-t-Butyl Ether (MTBE)	50.0	49.31		ug/L		99	70 - 130	2	30
Naphthalene	50.0	48.15		ug/L		96	57 - 149	1	30
tert-Butyl alcohol (TBA)	500	458.5		ug/L		92	57 - 120	5	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		60 - 124
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

Lab Sample ID: MB 680-707702/8

Matrix: Water

Analysis Batch: 707702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			02/21/22 12:34	1
Ethylbenzene	ND		1.00	0.200	ug/L			02/21/22 12:34	1
Toluene	ND		1.00	0.250	ug/L			02/21/22 12:34	1
Xylenes, Total	ND		1.00	0.230	ug/L			02/21/22 12:34	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			02/21/22 12:34	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			02/21/22 12:34	1
Naphthalene	ND		5.00	2.40	ug/L			02/21/22 12:34	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			02/21/22 12:34	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			02/21/22 12:34	1
Ethanol	ND		100	50.0	ug/L			02/21/22 12:34	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			02/21/22 12:34	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			02/21/22 12:34	1

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-707702/8

Matrix: Water

Analysis Batch: 707702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Amyl alcohol	ND		20.0	8.60	ug/L			02/21/22 12:34	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			02/21/22 12:34	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			02/21/22 12:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		70 - 130					02/21/22 12:34	1
1,2-Dichloroethane-d4 (Surr)	104		60 - 124					02/21/22 12:34	1
4-Bromofluorobenzene (Surr)	112		70 - 130					02/21/22 12:34	1
Dibromofluoromethane (Surr)	111		70 - 130					02/21/22 12:34	1

Lab Sample ID: LCS 680-707702/3

Matrix: Water

Analysis Batch: 707702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.34		ug/L		101	70 - 130
Ethylbenzene	50.0	49.39		ug/L		99	70 - 130
Toluene	50.0	48.73		ug/L		97	70 - 130
Xylenes, Total	100	100.1		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	52.69		ug/L		105	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	53.21		ug/L		106	70 - 130
Naphthalene	50.0	59.62		ug/L		119	57 - 149
Isopropyl Ether (DIPE)	50.0	51.56		ug/L		103	
tert-Butyl alcohol (TBA)	500	582.1		ug/L		116	57 - 120
Ethanol	2000	1639		ug/L		82	55 - 120
Tert-amyl-methyl ether (TAME)	50.0	52.21		ug/L		104	50 - 149
Ethyl tert-Butyl Ether (ETBE)	50.0	54.50		ug/L		109	
tert-Amyl alcohol	500	493.6		ug/L		99	70 - 130
3,3-Dimethyl-1-butanol	400	431.3		ug/L		108	70 - 130
tert-Butyl Formate	40.0	362.9	*+	ug/L		907	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	98		70 - 130				
1,2-Dichloroethane-d4 (Surr)	106		60 - 124				
4-Bromofluorobenzene (Surr)	99		70 - 130				
Dibromofluoromethane (Surr)	104		70 - 130				

Lab Sample ID: LCSD 680-707702/4

Matrix: Water

Analysis Batch: 707702

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	50.0	49.94		ug/L		100	70 - 130	1	30
Ethylbenzene	50.0	48.92		ug/L		98	70 - 130	1	20
Toluene	50.0	47.81		ug/L		96	70 - 130	2	30
Xylenes, Total	100	98.13		ug/L		98	70 - 130	2	30
1,2-Dichloroethane	50.0	52.15		ug/L		104	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	50.0	52.87		ug/L		106	70 - 130	1	30

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-707702/4

Matrix: Water

Analysis Batch: 707702

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	50.0	59.64		ug/L		119	57 - 149	0	30
Isopropyl Ether (DIPE)	50.0	50.99		ug/L		102		1	
tert-Butyl alcohol (TBA)	500	590.8		ug/L		118	57 - 120	1	40
Ethanol	2000	2195		ug/L		110	55 - 120	29	
Tert-amyl-methyl ether (TAME)	50.0	51.53		ug/L		103	50 - 149	1	30
Ethyl tert-Butyl Ether (ETBE)	50.0	54.05		ug/L		108		1	30
tert-Amyl alcohol	500	490.4		ug/L		98	70 - 130	1	
3,3-Dimethyl-1-butanol	400	436.7		ug/L		109	70 - 130	1	30
tert-Butyl Formate	40.0	341.1	*+	ug/L		853	70 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		60 - 124
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-707603/3-A

Matrix: Water

Analysis Batch: 707604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 707603

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		02/18/22 18:34	02/18/22 20:16	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
Pentachloroethane	98		70 - 130	02/18/22 18:34	02/18/22 20:16	1			

Lab Sample ID: LCS 680-707603/4-A

Matrix: Water

Analysis Batch: 707604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 707603

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylene Dibromide (EDB)			0.100	0.09834		ug/L		98	70 - 130		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
Pentachloroethane	91		70 - 130								

Lab Sample ID: LCSD 680-707603/5-A

Matrix: Water

Analysis Batch: 707604

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 707603

			Spike	LCSD	LCSD				%Rec.			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Ethylene Dibromide (EDB)			0.100	0.09918		ug/L		99	70 - 130	1	30	
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits									
Pentachloroethane	97		70 - 130									

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-707769/3-A

Matrix: Water

Analysis Batch: 707781

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 707769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0180	0.00500	ug/L		02/21/22 19:02	02/21/22 20:25	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	91		60 - 144				02/21/22 19:02	02/21/22 20:25	1

Lab Sample ID: LCS 680-707769/4-A

Matrix: Water

Analysis Batch: 707781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 707769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (EDB)	0.100	0.09827		ug/L		98	66 - 126	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Pentachloroethane	90		60 - 144					

Lab Sample ID: LCSD 680-707769/5-A

Matrix: Water

Analysis Batch: 707781

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 707769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	0.100	0.1006		ug/L		101	66 - 126	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Pentachloroethane	93		60 - 144						

Lab Sample ID: 680-211414-14 MS

Matrix: Ground Water

Analysis Batch: 707781

Client Sample ID: DW-4

Prep Type: Total/NA

Prep Batch: 707769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (EDB)	ND		0.102	0.09778		ug/L		96	66 - 126	
Surrogate	MS %Recovery	MS Qualifier	Limits							
Pentachloroethane	95	p	60 - 144							

Lab Sample ID: 680-211414-16 MS

Matrix: Ground Water

Analysis Batch: 707781

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 707769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (EDB)	ND		0.101	0.09588		ug/L		95	66 - 126	
Surrogate	MS %Recovery	MS Qualifier	Limits							
Pentachloroethane	92		60 - 144							

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QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 680-211414-16 MSD

Matrix: Ground Water

Analysis Batch: 707781

Client Sample ID: SW-1

Prep Type: Total/NA

Prep Batch: 707769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (EDB)	ND		0.101	0.09546		ug/L		95	66 - 126	0	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Pentachloroethane	91		60 - 144								

QC Association Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

GC/MS VOA

Leach Batch: 707460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-707460/1-A	Method Blank	Total/NA	Water	1311	

Analysis Batch: 707468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-24	WSW-FB	Total/NA	Water	524.2	
680-211414-25	WSW-TB	Total/NA	Water	524.2	
MB 680-707468/9	Method Blank	Total/NA	Water	524.2	
LCS 680-707468/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-707468/5	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 707475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-1	MW-1	Total/NA	Ground Water	8260D	
680-211414-2	MW-2	Total/NA	Ground Water	8260D	
680-211414-3	MW-3	Total/NA	Ground Water	8260D	
680-211414-5	MW-5	Total/NA	Ground Water	8260D	
680-211414-6	MW-6	Total/NA	Ground Water	8260D	
680-211414-7	MW-7	Total/NA	Ground Water	8260D	
680-211414-8	MW-8	Total/NA	Ground Water	8260D	
680-211414-9	MW-9	Total/NA	Ground Water	8260D	
680-211414-10	MW-10	Total/NA	Ground Water	8260D	
680-211414-11	DW-1	Total/NA	Ground Water	8260D	
680-211414-12	DW-2	Total/NA	Ground Water	8260D	
680-211414-13	DW-3	Total/NA	Ground Water	8260D	
680-211414-14 - DL	DW-4	Total/NA	Ground Water	8260D	
680-211414-15	Dup	Total/NA	Ground Water	8260D	
680-211414-16	SW-1	Total/NA	Ground Water	8260D	
680-211414-17	SW-2	Total/NA	Ground Water	8260D	
680-211414-18	SW-3	Total/NA	Ground Water	8260D	
680-211414-19	FB	Total/NA	Water	8260D	
680-211414-20	GAC	Total/NA	Ground Water	8260D	
MB 680-707475/9	Method Blank	Total/NA	Water	8260D	
LCS 680-707475/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-707475/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 707614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-22	WSW-1	Total/NA	Drinking Water	524.2	
680-211414-23	WSW-Dup	Total/NA	Drinking Water	524.2	
MB 680-707614/9	Method Blank	Total/NA	Water	524.2	
LCS 680-707614/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-707614/5	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 707645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-14	DW-4	Total/NA	Ground Water	8260D	
680-211414-21	TB	Total/NA	Water	8260D	
680-211414-22	WSW-1	Total/NA	Drinking Water	8260D	
680-211414-23	WSW-Dup	Total/NA	Drinking Water	8260D	
680-211414-24	WSW-FB	Total/NA	Water	8260D	
680-211414-25	WSW-TB	Total/NA	Water	8260D	

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QC Association Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

GC/MS VOA (Continued)

Analysis Batch: 707645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-707645/9	Method Blank	Total/NA	Water	8260D	
LCS 680-707645/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-707645/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 707673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-10	MW-10	Total/NA	Ground Water	8260D	
LB 680-707460/1-A	Method Blank	Total/NA	Water	8260D	707460
MB 680-707673/9	Method Blank	Total/NA	Water	8260D	
LCS 680-707673/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-707673/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 707702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-1 - DL	MW-1	Total/NA	Ground Water	8260D	
680-211414-2 - DL	MW-2	Total/NA	Ground Water	8260D	
680-211414-3	MW-3	Total/NA	Ground Water	8260D	
680-211414-4	MW-4	Total/NA	Ground Water	8260D	
680-211414-8 - DL	MW-8	Total/NA	Ground Water	8260D	
680-211414-14 - DL	DW-4	Total/NA	Ground Water	8260D	
MB 680-707702/8	Method Blank	Total/NA	Water	8260D	
LCS 680-707702/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-707702/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 707603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-22	WSW-1	Total/NA	Drinking Water	504.1	
680-211414-23	WSW-Dup	Total/NA	Drinking Water	504.1	
680-211414-24	WSW-FB	Total/NA	Water	504.1	
MB 680-707603/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-707603/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-707603/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	

Analysis Batch: 707604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-22	WSW-1	Total/NA	Drinking Water	504.1	707603
680-211414-23	WSW-Dup	Total/NA	Drinking Water	504.1	707603
680-211414-24	WSW-FB	Total/NA	Water	504.1	707603
MB 680-707603/3-A	Method Blank	Total/NA	Water	504.1	707603
LCS 680-707603/4-A	Lab Control Sample	Total/NA	Water	504.1	707603
LCSD 680-707603/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	707603

Prep Batch: 707769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-1	MW-1	Total/NA	Ground Water	8011	
680-211414-2	MW-2	Total/NA	Ground Water	8011	
680-211414-3	MW-3	Total/NA	Ground Water	8011	
680-211414-4	MW-4	Total/NA	Ground Water	8011	
680-211414-5	MW-5	Total/NA	Ground Water	8011	

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QC Association Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

GC Semi VOA (Continued)

Prep Batch: 707769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-6	MW-6	Total/NA	Ground Water	8011	
680-211414-7	MW-7	Total/NA	Ground Water	8011	
680-211414-8	MW-8	Total/NA	Ground Water	8011	
680-211414-9	MW-9	Total/NA	Ground Water	8011	
680-211414-10	MW-10	Total/NA	Ground Water	8011	
680-211414-11	DW-1	Total/NA	Ground Water	8011	
680-211414-12	DW-2	Total/NA	Ground Water	8011	
680-211414-13	DW-3	Total/NA	Ground Water	8011	
680-211414-14	DW-4	Total/NA	Ground Water	8011	
680-211414-15	Dup	Total/NA	Ground Water	8011	
680-211414-16	SW-1	Total/NA	Ground Water	8011	
680-211414-17	SW-2	Total/NA	Ground Water	8011	
680-211414-18	SW-3	Total/NA	Ground Water	8011	
680-211414-19	FB	Total/NA	Water	8011	
680-211414-20	GAC	Total/NA	Ground Water	8011	
MB 680-707769/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-707769/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-707769/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	
680-211414-14 MS	DW-4	Total/NA	Ground Water	8011	
680-211414-16 MS	SW-1	Total/NA	Ground Water	8011	
680-211414-16 MSD	SW-1	Total/NA	Ground Water	8011	

Analysis Batch: 707781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211414-1	MW-1	Total/NA	Ground Water	8011	707769
680-211414-2	MW-2	Total/NA	Ground Water	8011	707769
680-211414-3	MW-3	Total/NA	Ground Water	8011	707769
680-211414-4	MW-4	Total/NA	Ground Water	8011	707769
680-211414-5	MW-5	Total/NA	Ground Water	8011	707769
680-211414-6	MW-6	Total/NA	Ground Water	8011	707769
680-211414-7	MW-7	Total/NA	Ground Water	8011	707769
680-211414-8	MW-8	Total/NA	Ground Water	8011	707769
680-211414-9	MW-9	Total/NA	Ground Water	8011	707769
680-211414-10	MW-10	Total/NA	Ground Water	8011	707769
680-211414-11	DW-1	Total/NA	Ground Water	8011	707769
680-211414-12	DW-2	Total/NA	Ground Water	8011	707769
680-211414-13	DW-3	Total/NA	Ground Water	8011	707769
680-211414-14	DW-4	Total/NA	Ground Water	8011	707769
680-211414-15	Dup	Total/NA	Ground Water	8011	707769
680-211414-16	SW-1	Total/NA	Ground Water	8011	707769
680-211414-17	SW-2	Total/NA	Ground Water	8011	707769
680-211414-18	SW-3	Total/NA	Ground Water	8011	707769
680-211414-19	FB	Total/NA	Water	8011	707769
680-211414-20	GAC	Total/NA	Ground Water	8011	707769
MB 680-707769/3-A	Method Blank	Total/NA	Water	8011	707769
LCS 680-707769/4-A	Lab Control Sample	Total/NA	Water	8011	707769
LCSD 680-707769/5-A	Lab Control Sample Dup	Total/NA	Water	8011	707769
680-211414-14 MS	DW-4	Total/NA	Ground Water	8011	707769
680-211414-16 MS	SW-1	Total/NA	Ground Water	8011	707769
680-211414-16 MSD	SW-1	Total/NA	Ground Water	8011	707769

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Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-1

Date Collected: 02/15/22 12:05

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 13:57	Y1S	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	707702	02/21/22 19:01	Y1S	TAL SAV
		Instrument ID: CMSC								
Total/NA	Prep	8011			34.2 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 21:53	EHS	TAL SAV
		Instrument ID: CSGX								

Client Sample ID: MW-2

Date Collected: 02/15/22 10:35

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 14:21	Y1S	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	707702	02/21/22 19:20	Y1S	TAL SAV
		Instrument ID: CMSC								
Total/NA	Prep	8011			34 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 22:03	EHS	TAL SAV
		Instrument ID: CSGX								

Client Sample ID: MW-3

Date Collected: 02/15/22 10:22

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 14:45	Y1S	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Analysis	8260D		1	5 mL	5 mL	707702	02/21/22 13:37	Y1S	TAL SAV
		Instrument ID: CMSC								
Total/NA	Prep	8011			36 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 22:13	EHS	TAL SAV
		Instrument ID: CSGX								

Client Sample ID: MW-4

Date Collected: 02/15/22 10:13

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707702	02/21/22 13:56	Y1S	TAL SAV
		Instrument ID: CMSC								
Total/NA	Prep	8011			34.4 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 22:23	EHS	TAL SAV
		Instrument ID: CSGX								

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Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-5

Date Collected: 02/15/22 10:29

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 15:32	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			34.4 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 22:33	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: MW-6

Date Collected: 02/15/22 10:53

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	707475	02/18/22 20:41	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			35.2 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 22:42	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: MW-7

Date Collected: 02/15/22 12:24

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 15:56	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			35.6 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 22:52	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: MW-8

Date Collected: 02/15/22 11:15

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	707475	02/18/22 21:04	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Analysis	8260D	DL	200	5 mL	5 mL	707702	02/21/22 17:25	Y1S	TAL SAV
Instrument ID: CMSC										
Total/NA	Prep	8011			35.6 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 23:02	EHS	TAL SAV
Instrument ID: CSGX										

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Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: MW-9

Lab Sample ID: 680-211414-9

Date Collected: 02/15/22 11:25

Matrix: Ground Water

Date Received: 02/16/22 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 16:19	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			35.4 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 23:12	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: MW-10

Lab Sample ID: 680-211414-10

Date Collected: 02/15/22 11:35

Matrix: Ground Water

Date Received: 02/16/22 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	707475	02/18/22 21:28	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		50	5 mL	5 mL	707673	02/21/22 14:26	P1C	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			34.5 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 23:22	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: DW-1

Lab Sample ID: 680-211414-11

Date Collected: 02/15/22 11:56

Matrix: Ground Water

Date Received: 02/16/22 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 17:55	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			33.1 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 23:31	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: DW-2

Lab Sample ID: 680-211414-12

Date Collected: 02/15/22 10:42

Matrix: Ground Water

Date Received: 02/16/22 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 18:18	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			34.3 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 23:41	EHS	TAL SAV
	Instrument ID: CSGX									

Eurofins Savannah

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: DW-3

Date Collected: 02/15/22 12:17

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 18:42	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			36.1 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 23:51	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: DW-4

Date Collected: 02/15/22 11:01

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	707475	02/18/22 21:52	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	707645	02/20/22 20:42	UI	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	707702	02/21/22 18:41	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	8011			35.8 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 21:04	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: Dup

Date Collected: 02/15/22 00:00

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	707475	02/18/22 22:16	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			35.1 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/22/22 00:01	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: SW-1

Date Collected: 02/15/22 12:41

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-16

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 16:43	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Prep	8011			34.8 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/21/22 21:24	EHS	TAL SAV
	Instrument ID: CSGX									

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Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: SW-2

Date Collected: 02/15/22 12:42

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-17

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 17:07	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			35.4 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/22/22 00:11	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: SW-3

Date Collected: 02/15/22 12:50

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-18

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 17:31	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			35.2 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/22/22 00:21	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: FB

Date Collected: 02/15/22 12:24

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 19:06	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			34.9 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/22/22 00:30	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GAC

Date Collected: 02/15/22 12:26

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-20

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707475	02/18/22 19:30	Y1S	TAL SAV
Instrument ID: CMSAA										
Total/NA	Prep	8011			35.9 mL	2 mL	707769	02/21/22 19:02	EHS	TAL SAV
Total/NA	Analysis	8011		1			707781	02/22/22 00:40	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: TB

Date Collected: 02/15/22 08:00

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	707645	02/20/22 17:34	UI	TAL SAV
Instrument ID: CMSAA										

Eurofins Savannah

Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Client Sample ID: WSW-1

Date Collected: 02/15/22 14:20

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-22

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	707614	02/19/22 18:56	UI	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260D		1	5 mL	5 mL	707645	02/20/22 21:06	UI	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Prep	504.1			34.1 mL	2 mL	707603	02/18/22 18:34	EHS	TAL SAV
Total/NA	Analysis	504.1		1			707604	02/18/22 23:23	EHS	TAL SAV
		Instrument ID: CSGX								

Client Sample ID: WSW-Dup

Date Collected: 02/15/22 00:00

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-23

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	707614	02/19/22 19:22	UI	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260D		1	5 mL	5 mL	707645	02/20/22 21:29	UI	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Prep	504.1			34.9 mL	2 mL	707603	02/18/22 18:34	EHS	TAL SAV
Total/NA	Analysis	504.1		1			707604	02/18/22 23:33	EHS	TAL SAV
		Instrument ID: CSGX								

Client Sample ID: WSW-FB

Date Collected: 02/15/22 14:35

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	707468	02/18/22 12:55	Y1S	TAL SAV
		Instrument ID: CMSAG								
Total/NA	Analysis	8260D		1	5 mL	5 mL	707645	02/20/22 17:57	UI	TAL SAV
		Instrument ID: CMSAA								
Total/NA	Prep	504.1			35.1 mL	2 mL	707603	02/18/22 18:34	EHS	TAL SAV
Total/NA	Analysis	504.1		1			707604	02/18/22 23:43	EHS	TAL SAV
		Instrument ID: CSGX								

Client Sample ID: WSW-TB

Date Collected: 02/15/22 08:00

Date Received: 02/16/22 15:15

Lab Sample ID: 680-211414-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	707468	02/18/22 13:28	Y1S	TAL SAV
		Instrument ID: CMSAG								
Total/NA	Analysis	8260D		1	5 mL	5 mL	707645	02/20/22 18:44	UI	TAL SAV
		Instrument ID: CMSAA								

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22

1

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Method Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211414-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL SAV
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SAV
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	TAL SAV
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
504.1	Microextraction	EPA-DW	TAL SAV
8011	Microextraction	SW846	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact		Project Manager:		Site Contact:		Date:		COC No	
Company Name		Tel/Email:		Lab Contact:		Carrier:		Sampler	
Address		Analysis Turnaround Time		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		For Lab Use Only	
City/State/Zip		CALENDAR DAYS		Sample Date		Sample Time		Walk-in Client:	
Phone		TAT if different from Below		Sample Type		Matrix		Lab Sampling	
Fax		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		(C=Comp, G=Grab)		# of Cont.		Job / SDG No	
Project Name		Sample Identification		Sample Date		Sample Time		680-211414 Chain of Custody	
Site		Sample Date		Sample Time		Matrix		Sample Specific Notes	
PO #		Sample Date		Sample Time		Matrix		Sample Specific Notes	
MW-1		2/15/22 12:05		G		GW		no odor	
MW-2		10:25		G		GW		no odor	
MW-3		10:27		G		GW		no odor	
MW-4		10:13		G		GW		no odor	
MW-5		10:29		G		GW		no odor	
MW-6		10:53		G		GW		no odor	
MW-7		10:24		G		GW		no odor	
MW-8		11:15		G		GW		no odor	
MW-9		11:25		G		GW		no odor	
MW-10		11:35		G		GW		no odor	
DW-1		11:56		G		GW		no odor	
DW-2		10:42		G		GW		no odor	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: _____

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Special Instructions/QC Requirements & Comments:

Relinquished by: glv. pf Date/Time: 2/16/22 12:22 Company: WECI

Relinquished by: glv. pf Date/Time: 2/16/22 12:22 Company: WECI

Relinquished by: glv. pf Date/Time: 2/16/22 12:22 Company: WECI

2/23/2022 12:22 2/23/2022 12:22 2/23/2022 12:22

Chain of Custody Record

537656



Environment Testing
TestAmerica

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact		Project Manager:		Site Contact:		Date:		COC No	
Tel/Email:		Analysis Turnaround Time		Lab Contact:		Carrier:		of	
Company Name		CALENDAR DAYS		Perform MS / MSD (Y / N)		For Lab Use Only:		COCs	
Address		WORKING DAYS		Filtered Sample (Y / N)		Walk-in Client:		Sampler	
City/State/Zip		TAT if different from Below		# of Cont.		Lab Sampling		Job / SDG No	
Phone		2 weeks		Sample Type		Job / SDG No		Sample Specific Notes	
Fax		1 week		(C=Comp, G=Grab)		Job / SDG No			
Project Name		2 days		Sample Date		Job / SDG No			
Site		1 day		Sample Time		Job / SDG No			
PO #				Matrix		Job / SDG No			
Sample Identification		Sample Date		Matrix		Job / SDG No			
DW-3	2/17/22	6	6	6	6				
DW-4	11/01	1	1	1	1				
DUP	12/11	1	1	1	1				
SW-1	12/12	1	1	1	1				
SW-2	12/12	1	1	1	1				
SW-3	12/12	1	1	1	1				
ER	12/12	1	1	1	1				
GAC	12/12	1	1	1	1				
TB	9:00	1	1	1	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: _____

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Comments Section if the lab is to dispose of the sample

Special Instructions/QC Requirements & Comments:

Received by: _____ Date/Time: 2/16/22

Received by: _____ Date/Time: 2/16 15:15

Received in Laboratory by: _____ Date/Time: _____

Custody Seal No _____

Custody Seals Intact: ☐ Yes ☐ No

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

2-112-7 / 2-2/2-8

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Address

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other		Project Manager: _____		Site Contact: _____		Date: _____		COC No: _____ of _____ COCs	
Client Contact Company Name <u>NFCL</u> Address <u>231 Doolittle Rd</u> City/State/Zip <u>Lexington, NC</u> Phone _____ Fax _____ Project Name <u>Mike Huggins</u> Site <u>4906 Pangloss Hwy</u> PO # _____		Tell/Email: _____		Lab Contact: _____		Carrier: _____		Sampler: _____ For Lab Use Only. Walk-in Client: _____ Lab Sampling: _____ Job / SDG No <u>7-7207</u>	
Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date <u>2/12/20</u> <u>1/14/20</u> <u>7/30</u>		Sample Time <u>14:20</u> <u>14:35</u> <u>7:30</u>		Sample Type (C=Comp, G=Grab) <u>G</u> <u>C</u> <u>G</u>		Matrix <u>DW</u> <u>↓</u> <u>↓</u>	
Sample Identification <u>WSW-1</u> <u>WSW DUP</u> <u>WSW FB</u> <u>WSW TB</u>		Sample Type <u>G</u> <u>C</u> <u>G</u>		Matrix <u>DW</u> <u>↓</u> <u>↓</u>		# of Cont. <u>9</u> <u>5</u> <u>5</u> <u>6</u>		Filtered Sample (Y/N) <u>X</u> <u>X</u> <u>X</u> <u>X</u>	
Perform MS / MSD (Y/N) <u>X</u> <u>X</u> <u>X</u> <u>X</u>		EDB 504.1 <u>672 + Eth 9800</u> <u>672 + Eth 9800</u> <u>672 + Eth 9800</u>		Sample Specific Notes: <u>14</u> <u>↓</u>					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample									
Special Instructions/QC Requirements & Comments:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months									
Relinquished by <u>Bob Huggins</u>		Custody Seal No <u>1161722</u>		Received by <u>ETS</u>		Company <u>ETS</u>		Date/Time <u>2/16 12:22</u>	
Relinquished by <u>Bob Huggins</u>		Custody Seal No <u>1161722</u>		Received by <u>ETS</u>		Company <u>ETS</u>		Date/Time <u>2/16 15:15</u>	
Relinquished by <u>Bob Huggins</u>		Custody Seal No <u>1161722</u>		Received by <u>ETS</u>		Company <u>ETS</u>		Date/Time <u>2/16 15:15</u>	

Login Sample Receipt Checklist

Client: Midlands Environmental Consultants Inc

Job Number: 680-211414-1

Login Number: 211414

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-211885-1
Client Project/Site: Jake Huggins
Revision: 1

For:
Midlands Environmental Consultants Inc
231 Dooley Road
Lexington, South Carolina 29073

Attn: Kyle Pudney



Authorized for release by:
3/7/2022 9:50:22 AM

John Andros, Project Manager I
(404)944-4744
john.andros@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-211885-1	TW-1	Ground Water	02/28/22 12:40	03/01/22 12:31
680-211885-2	SW-4	Ground Water	02/28/22 12:00	03/01/22 12:31
680-211885-3	SW-5	Ground Water	02/28/22 12:16	03/01/22 12:31
680-211885-4	SW-6	Ground Water	02/28/22 12:25	03/01/22 12:31
680-211885-5	Dup1	Ground Water	02/28/22 17:40	03/01/22 12:31
680-211885-6	Field Blank	Water	02/28/22 13:00	03/01/22 12:31
680-211885-7	Trip Blank	Water	02/28/22 08:00	03/01/22 12:31

Case Narrative

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Job ID: 680-211885-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-211885-1

Comments

No additional comments.

Receipt

The samples were received on 3/1/2022 at 04:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The cooler temperature was 3.2 degrees C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: TW-1

Lab Sample ID: 680-211885-1

No Detections.

Client Sample ID: SW-4

Lab Sample ID: 680-211885-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.228	J	1.00	0.200	ug/L	1		8260D	Total/NA
Toluene	15.9		1.00	0.250	ug/L	1		8260D	Total/NA

Client Sample ID: SW-5

Lab Sample ID: 680-211885-3

No Detections.

Client Sample ID: SW-6

Lab Sample ID: 680-211885-4

No Detections.

Client Sample ID: Dup1

Lab Sample ID: 680-211885-5

No Detections.

Client Sample ID: Field Blank

Lab Sample ID: 680-211885-6

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 680-211885-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: TW-1

Lab Sample ID: 680-211885-1

Date Collected: 02/28/22 12:40

Matrix: Ground Water

Date Received: 03/01/22 12:31

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 13:43	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/02/22 13:43	1
Toluene	ND		1.00	0.250	ug/L			03/02/22 13:43	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 13:43	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 13:43	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 13:43	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 13:43	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 13:43	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 13:43	1
Ethanol	ND		100	50.0	ug/L			03/02/22 13:43	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 13:43	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 13:43	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 13:43	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 13:43	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		03/02/22 13:43	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124		03/02/22 13:43	1
4-Bromofluorobenzene (Surr)	109		70 - 130		03/02/22 13:43	1
Dibromofluoromethane (Surr)	106		70 - 130		03/02/22 13:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0229	0.00636	ug/L		03/01/22 20:46	03/01/22 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	108		60 - 144	03/01/22 20:46	03/01/22 23:41	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: SW-4

Date Collected: 02/28/22 12:00

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-2

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 14:02	1
Ethylbenzene	0.228	J	1.00	0.200	ug/L			03/02/22 14:02	1
Toluene	15.9		1.00	0.250	ug/L			03/02/22 14:02	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 14:02	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 14:02	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 14:02	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 14:02	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 14:02	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 14:02	1
Ethanol	ND		100	50.0	ug/L			03/02/22 14:02	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 14:02	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 14:02	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 14:02	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 14:02	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		03/02/22 14:02	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 124		03/02/22 14:02	1
4-Bromofluorobenzene (Surr)	109		70 - 130		03/02/22 14:02	1
Dibromofluoromethane (Surr)	104		70 - 130		03/02/22 14:02	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0177	0.00492	ug/L		03/01/22 20:46	03/01/22 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	108		60 - 144	03/01/22 20:46	03/01/22 23:51	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: SW-5

Lab Sample ID: 680-211885-3

Date Collected: 02/28/22 12:16

Matrix: Ground Water

Date Received: 03/01/22 12:31

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 14:21	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/02/22 14:21	1
Toluene	ND		1.00	0.250	ug/L			03/02/22 14:21	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 14:21	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 14:21	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 14:21	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 14:21	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 14:21	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 14:21	1
Ethanol	ND		100	50.0	ug/L			03/02/22 14:21	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 14:21	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 14:21	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 14:21	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 14:21	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		03/02/22 14:21	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124		03/02/22 14:21	1
4-Bromofluorobenzene (Surr)	109		70 - 130		03/02/22 14:21	1
Dibromofluoromethane (Surr)	107		70 - 130		03/02/22 14:21	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0181	0.00503	ug/L		03/01/22 20:46	03/01/22 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	105		60 - 144	03/01/22 20:46	03/01/22 23:11	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: SW-6

Date Collected: 02/28/22 12:25

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-4

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 14:40	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/02/22 14:40	1
Toluene	ND		1.00	0.250	ug/L			03/02/22 14:40	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 14:40	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 14:40	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 14:40	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 14:40	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 14:40	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 14:40	1
Ethanol	ND		100	50.0	ug/L			03/02/22 14:40	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 14:40	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 14:40	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 14:40	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 14:40	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		03/02/22 14:40	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 124		03/02/22 14:40	1
4-Bromofluorobenzene (Surr)	108		70 - 130		03/02/22 14:40	1
Dibromofluoromethane (Surr)	110		70 - 130		03/02/22 14:40	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0183	0.00507	ug/L		03/01/22 20:46	03/02/22 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	127		60 - 144	03/01/22 20:46	03/02/22 00:00	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: Dup1

Date Collected: 02/28/22 17:40

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-5

Matrix: Ground Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 14:59	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/02/22 14:59	1
Toluene	ND		1.00	0.250	ug/L			03/02/22 14:59	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 14:59	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 14:59	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 14:59	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 14:59	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 14:59	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 14:59	1
Ethanol	ND		100	50.0	ug/L			03/02/22 14:59	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 14:59	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 14:59	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 14:59	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 14:59	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		03/02/22 14:59	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		03/02/22 14:59	1
4-Bromofluorobenzene (Surr)	111		70 - 130		03/02/22 14:59	1
Dibromofluoromethane (Surr)	108		70 - 130		03/02/22 14:59	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0209	0.00581	ug/L		03/01/22 20:46	03/02/22 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	100		60 - 144	03/01/22 20:46	03/02/22 00:10	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: Field Blank

Lab Sample ID: 680-211885-6

Date Collected: 02/28/22 13:00

Matrix: Water

Date Received: 03/01/22 12:31

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 13:24	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/02/22 13:24	1
Toluene	ND		1.00	0.250	ug/L			03/02/22 13:24	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 13:24	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 13:24	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 13:24	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 13:24	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 13:24	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 13:24	1
Ethanol	ND		100	50.0	ug/L			03/02/22 13:24	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 13:24	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 13:24	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 13:24	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 13:24	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		03/02/22 13:24	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		03/02/22 13:24	1
4-Bromofluorobenzene (Surr)	110		70 - 130		03/02/22 13:24	1
Dibromofluoromethane (Surr)	110		70 - 130		03/02/22 13:24	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.0181	0.00501	ug/L		03/01/22 20:46	03/02/22 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	104		60 - 144	03/01/22 20:46	03/02/22 00:20	1

Eurofins Savannah

Client Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: Trip Blank

Lab Sample ID: 680-211885-7

Date Collected: 02/28/22 08:00

Matrix: Water

Date Received: 03/01/22 12:31

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/04/22 13:22	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/04/22 13:22	1
Toluene	ND		1.00	0.250	ug/L			03/04/22 13:22	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/04/22 13:22	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/04/22 13:22	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/04/22 13:22	1
Naphthalene	ND		5.00	2.40	ug/L			03/04/22 13:22	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/04/22 13:22	1
tert-Butyl alcohol (TBA)	ND	*+	50.0	6.90	ug/L			03/04/22 13:22	1
Ethanol	ND		100	50.0	ug/L			03/04/22 13:22	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/04/22 13:22	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/04/22 13:22	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/04/22 13:22	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/04/22 13:22	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/04/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130					03/04/22 13:22	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124					03/04/22 13:22	1
4-Bromofluorobenzene (Surr)	111		70 - 130					03/04/22 13:22	1
Dibromofluoromethane (Surr)	110		70 - 130					03/04/22 13:22	1

Eurofins Savannah

QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-708817/8

Matrix: Water

Analysis Batch: 708817

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/02/22 12:31	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/02/22 12:31	1
Toluene	ND		1.00	0.250	ug/L			03/02/22 12:31	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/02/22 12:31	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/02/22 12:31	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/02/22 12:31	1
Naphthalene	ND		5.00	2.40	ug/L			03/02/22 12:31	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/02/22 12:31	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/02/22 12:31	1
Ethanol	ND		100	50.0	ug/L			03/02/22 12:31	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/02/22 12:31	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/02/22 12:31	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/02/22 12:31	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/02/22 12:31	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/02/22 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		03/02/22 12:31	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 124		03/02/22 12:31	1
4-Bromofluorobenzene (Surr)	107		70 - 130		03/02/22 12:31	1
Dibromofluoromethane (Surr)	106		70 - 130		03/02/22 12:31	1

Lab Sample ID: LCS 680-708817/3

Matrix: Water

Analysis Batch: 708817

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	53.13		ug/L		106	70 - 130
Ethylbenzene	50.0	53.09		ug/L		106	70 - 130
Toluene	50.0	51.13		ug/L		102	70 - 130
Xylenes, Total	100	114.3		ug/L		114	70 - 130
1,2-Dichloroethane	50.0	54.29		ug/L		109	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	54.56		ug/L		109	70 - 130
Naphthalene	50.0	48.24		ug/L		96	57 - 149
Isopropyl Ether (DIPE)	50.0	51.79		ug/L		104	
tert-Butyl alcohol (TBA)	500	557.3		ug/L		111	57 - 120
Ethanol	2000	2227		ug/L		111	55 - 120
Tert-amyl-methyl ether (TAME)	50.0	50.51		ug/L		101	50 - 149
Ethyl tert-Butyl Ether (ETBE)	50.0	54.10		ug/L		108	
tert-Amyl alcohol	500	440.9		ug/L		88	70 - 130
3,3-Dimethyl-1-butanol	400	385.0		ug/L		96	70 - 130
tert-Butyl Formate	400	330.8		ug/L		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		60 - 124
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130

Eurofins Savannah

QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 680-708817/4

Matrix: Water

Analysis Batch: 708817

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	52.24		ug/L		104	70 - 130	2	30
Ethylbenzene	50.0	53.27		ug/L		107	70 - 130	0	20
Toluene	50.0	50.77		ug/L		102	70 - 130	1	30
Xylenes, Total	100	107.0		ug/L		107	70 - 130	7	30
1,2-Dichloroethane	50.0	53.39		ug/L		107	70 - 130	2	50
Methyl-t-Butyl Ether (MTBE)	50.0	53.57		ug/L		107	70 - 130	2	30
Naphthalene	50.0	56.70		ug/L		113	57 - 149	16	30
Isopropyl Ether (DIPE)	50.0	51.63		ug/L		103		0	
tert-Butyl alcohol (TBA)	500	549.4		ug/L		110	57 - 120	1	40
Ethanol	2000	2217		ug/L		111	55 - 120	0	
Tert-amyl-methyl ether (TAME)	50.0	49.82		ug/L		100	50 - 149	1	30
Ethyl tert-Butyl Ether (ETBE)	50.0	53.62		ug/L		107		1	30
tert-Amyl alcohol	500	433.3		ug/L		87	70 - 130	2	
3,3-Dimethyl-1-butanol	400	372.4		ug/L		93	70 - 130	3	30
tert-Butyl Formate	400	351.7		ug/L		88	70 - 130	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		60 - 124
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Lab Sample ID: MB 680-709237/8

Matrix: Water

Analysis Batch: 709237

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.270	ug/L			03/04/22 11:57	1
Ethylbenzene	ND		1.00	0.200	ug/L			03/04/22 11:57	1
Toluene	ND		1.00	0.250	ug/L			03/04/22 11:57	1
Xylenes, Total	ND		1.00	0.230	ug/L			03/04/22 11:57	1
1,2-Dichloroethane	ND		1.00	0.250	ug/L			03/04/22 11:57	1
Methyl-t-Butyl Ether (MTBE)	ND		5.00	0.810	ug/L			03/04/22 11:57	1
Naphthalene	ND		5.00	2.40	ug/L			03/04/22 11:57	1
Isopropyl Ether (DIPE)	ND		10.0	0.700	ug/L			03/04/22 11:57	1
tert-Butyl alcohol (TBA)	ND		50.0	6.90	ug/L			03/04/22 11:57	1
Ethanol	ND		100	50.0	ug/L			03/04/22 11:57	1
Tert-amyl-methyl ether (TAME)	ND		1.00	0.780	ug/L			03/04/22 11:57	1
Ethyl tert-Butyl Ether (ETBE)	ND		1.00	0.720	ug/L			03/04/22 11:57	1
tert-Amyl alcohol	ND		20.0	8.60	ug/L			03/04/22 11:57	1
3,3-Dimethyl-1-butanol	ND		20.0	7.00	ug/L			03/04/22 11:57	1
tert-Butyl Formate	ND		20.0	6.90	ug/L			03/04/22 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		03/04/22 11:57	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 124		03/04/22 11:57	1
4-Bromofluorobenzene (Surr)	107		70 - 130		03/04/22 11:57	1
Dibromofluoromethane (Surr)	106		70 - 130		03/04/22 11:57	1

Eurofins Savannah

QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 680-709237/3

Matrix: Water

Analysis Batch: 709237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.62		ug/L		105	70 - 130
Ethylbenzene	50.0	53.59		ug/L		107	70 - 130
Toluene	50.0	52.24		ug/L		104	70 - 130
Xylenes, Total	100	106.6		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	54.55		ug/L		109	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	55.58		ug/L		111	70 - 130
Naphthalene	50.0	61.06		ug/L		122	57 - 149
Isopropyl Ether (DIPE)	50.0	53.10		ug/L		106	
tert-Butyl alcohol (TBA)	500	624.1	*+	ug/L		125	57 - 120
Ethanol	2000	1603		ug/L		80	55 - 120
Tert-amyl-methyl ether (TAME)	50.0	53.62		ug/L		107	50 - 149
Ethyl tert-Butyl Ether (ETBE)	50.0	54.61		ug/L		109	
tert-Amyl alcohol	500	526.4		ug/L		105	70 - 130
3,3-Dimethyl-1-butanol	400	426.3		ug/L		107	70 - 130
tert-Butyl Formate	400	358.1		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		60 - 124
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130

Lab Sample ID: LCSD 680-709237/4

Matrix: Water

Analysis Batch: 709237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	52.81		ug/L		106	70 - 130	0	30
Ethylbenzene	50.0	54.23		ug/L		108	70 - 130	1	20
Toluene	50.0	51.61		ug/L		103	70 - 130	1	30
Xylenes, Total	100	107.5		ug/L		107	70 - 130	1	30
1,2-Dichloroethane	50.0	53.93		ug/L		108	70 - 130	1	50
Methyl-t-Butyl Ether (MTBE)	50.0	55.25		ug/L		110	70 - 130	1	30
Naphthalene	50.0	59.59		ug/L		119	57 - 149	2	30
Isopropyl Ether (DIPE)	50.0	55.05		ug/L		110		4	
tert-Butyl alcohol (TBA)	500	637.6	*+	ug/L		128	57 - 120	2	40
Ethanol	2000	2228		ug/L		111	55 - 120	33	
Tert-amyl-methyl ether (TAME)	50.0	55.36		ug/L		111	50 - 149	3	30
Ethyl tert-Butyl Ether (ETBE)	50.0	55.86		ug/L		112		2	30
tert-Amyl alcohol	500	551.5		ug/L		110	70 - 130	5	
3,3-Dimethyl-1-butanol	400	443.8		ug/L		111	70 - 130	4	30
tert-Butyl Formate	400	374.0		ug/L		93	70 - 130	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		60 - 124
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130

Eurofins Savannah

QC Sample Results

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: 680-211885-3 MS

Matrix: Ground Water

Analysis Batch: 708799

Client Sample ID: SW-5

Prep Type: Total/NA

Prep Batch: 708796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (EDB)	ND		0.102	0.09271		ug/L		91	66 - 126

QC Association Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

GC/MS VOA

Analysis Batch: 708817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211885-1	TW-1	Total/NA	Ground Water	8260D	
680-211885-2	SW-4	Total/NA	Ground Water	8260D	
680-211885-3	SW-5	Total/NA	Ground Water	8260D	
680-211885-4	SW-6	Total/NA	Ground Water	8260D	
680-211885-5	Dup1	Total/NA	Ground Water	8260D	
680-211885-6	Field Blank	Total/NA	Water	8260D	
MB 680-708817/8	Method Blank	Total/NA	Water	8260D	
LCS 680-708817/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-708817/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 709237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211885-7	Trip Blank	Total/NA	Water	8260D	
MB 680-709237/8	Method Blank	Total/NA	Water	8260D	
LCS 680-709237/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-709237/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 708796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211885-1	TW-1	Total/NA	Ground Water	8011	
680-211885-2	SW-4	Total/NA	Ground Water	8011	
680-211885-3	SW-5	Total/NA	Ground Water	8011	
680-211885-4	SW-6	Total/NA	Ground Water	8011	
680-211885-5	Dup1	Total/NA	Ground Water	8011	
680-211885-6	Field Blank	Total/NA	Water	8011	
680-211885-3 MS	SW-5	Total/NA	Ground Water	8011	

Analysis Batch: 708799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-211885-1	TW-1	Total/NA	Ground Water	8011	708796
680-211885-2	SW-4	Total/NA	Ground Water	8011	708796
680-211885-3	SW-5	Total/NA	Ground Water	8011	708796
680-211885-4	SW-6	Total/NA	Ground Water	8011	708796
680-211885-5	Dup1	Total/NA	Ground Water	8011	708796
680-211885-6	Field Blank	Total/NA	Water	8011	708796
680-211885-3 MS	SW-5	Total/NA	Ground Water	8011	708796

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Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: TW-1

Date Collected: 02/28/22 12:40

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	708817	03/02/22 13:43	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	8011			27.5 mL	2 mL	708796	03/01/22 20:46	EHS	TAL SAV
Total/NA	Analysis	8011		1			708799	03/01/22 23:41	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: SW-4

Date Collected: 02/28/22 12:00

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	708817	03/02/22 14:02	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	8011			35.6 mL	2 mL	708796	03/01/22 20:46	EHS	TAL SAV
Total/NA	Analysis	8011		1			708799	03/01/22 23:51	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: SW-5

Date Collected: 02/28/22 12:16

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	708817	03/02/22 14:21	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	8011			34.8 mL	2 mL	708796	03/01/22 20:46	EHS	TAL SAV
Total/NA	Analysis	8011		1			708799	03/01/22 23:11	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: SW-6

Date Collected: 02/28/22 12:25

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	708817	03/02/22 14:40	SMP	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	8011			34.5 mL	2 mL	708796	03/01/22 20:46	EHS	TAL SAV
Total/NA	Analysis	8011		1			708799	03/02/22 00:00	EHS	TAL SAV
	Instrument ID: CSGX									

Client Sample ID: Dup1

Date Collected: 02/28/22 17:40

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	708817	03/02/22 14:59	SMP	TAL SAV
	Instrument ID: CMSC									

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Lab Chronicle

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Client Sample ID: Dup1

Date Collected: 02/28/22 17:40

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			30.1 mL	2 mL	708796	03/01/22 20:46	EHS	TAL SAV
Total/NA	Analysis	8011		1			708799	03/02/22 00:10	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: Field Blank

Date Collected: 02/28/22 13:00

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	708817	03/02/22 13:24	SMP	TAL SAV
Instrument ID: CMSC										
Total/NA	Prep	8011			34.9 mL	2 mL	708796	03/01/22 20:46	EHS	TAL SAV
Total/NA	Analysis	8011		1			708799	03/02/22 00:20	EHS	TAL SAV
Instrument ID: CSGX										

Client Sample ID: Trip Blank

Date Collected: 02/28/22 08:00

Date Received: 03/01/22 12:31

Lab Sample ID: 680-211885-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	709237	03/04/22 13:22	SMP	TAL SAV
Instrument ID: CMSC										

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
South Carolina	State	98001	06-30-22

1

2

3

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13

Method Summary

Client: Midlands Environmental Consultants Inc
Project/Site: Jake Huggins

Job ID: 680-211885-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SAV
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
8011	Microextraction	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Company Name		Client Contact		Project Manager:		Site Contact:		Date:		COC No	
Address		Tel/Email:		Analysis Turnaround Time		Lab Contact:		Carrier:		COCs	
City/State/Zip		CALENDAR DAYS		WORKING DAYS						Sampler	
Phone		TAT if different from Below								For Lab Use Only.	
Fax		2 weeks								Walk-in Client:	
Project Name		1 week								Lab Sampling	
Site		2 days								Job / SDG No	
PO #		1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes		
TW-1	2/28	12:40	G	GW	6				No Odor		
SW-4		17:00	G						LVL's		
SW-5		17:16	G						LVL's		
SW-6		12:25	G						LVL's		
Dup 1		17:40	G						No Odor		
Field Blank		13:00	G								
Strip Blank	2/28	8:00	G	GW	2						
											
680-211885 Chain of Custody											
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months											

Special Instructions/QC Requirements & Comments:		Custody Seals Intact		Custody Seal No		Cooler Temp (°C)		Obs'd		Therm ID No	
		☐ Yes	☐ No			Received by:		Date/Time		Date/Time	
3.2 Received by: <i>[Signature]</i> QC Inquired by: <i>[Signature]</i> Seal req. sheet by: <i>[Signature]</i>				Company: MECI		Received by: <i>[Signature]</i>		Date/Time: 7/1/22 3:35		Company: <i>[Signature]</i>	
				Company: ETA		Received by:		Date/Time: 3/1/2023 35		Company:	
				Company:		Received in Laboratory by:		Date/Time:		Company:	

Login Sample Receipt Checklist

Client: Midlands Environmental Consultants Inc

Job Number: 680-211885-1

Login Number: 211885

List Source: Eurofins Savannah

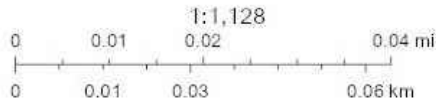
List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C:

TAX MAP



Florence County Tax Map #	Property Owner	Wells on Property
SCDOT Right of Way <i>UST# 03423</i>	SCDOT PO Box 191 Columbia, SC 29201	03423-MW01, 03423-MW02, 03423-MW03, 03423-MW05, 03423-MW06, 03423-MW07, 03423-MW08, 03423-MW10, 03423-DW01, 03423-DW02, 03423-DW03, 03423-DW04, 03423-SW-1, 03423-SW-2
00213-01-054	Linda T Huggins 3695 Willow Creek Rd Florence, SC 29505	03423-MW04
00213-01-052	Linda L Huggins 3695 Willow Creek Rd Florence, SC 29505	03423-WSW-3
00213-01-019	Barbara M Williams 3309 Willow Creek Rd Florence, SC 29505	03423-MW09
00213-01-017	Barbara M Williams 3309 Willow Creek Rd Florence, SC 29505	03423-SW-3, 03423-SW-4, 03423-SW-5, 03423-SW-6
00213-01-130	Willie B Winchester Jr. 3101 Willow Creek Rd Florence, SC 29505	03423-WSW-1, 03423-WSW-2
00213-01-149	William L Huggins 621 Mallard Pond Rd Murrells Inlet, SC 29576	N/A
00213-01-053	William L Huggins 621 Mallard Pond Rd Murrells Inlet, SC 29576	N/A
00248-01-018	Floyd Farms of Florence Inc. 518 Rosewood Dr Florence, SC 29501	N/A

Tax Map Data

Jake Huggins
4925 Pamplico Highway
Florence, South Carolina
SCDHEC ID # 03423

 Midlands
Environmental
Consultants, Inc.

JOB NO. 21-7709

DATE March 03, 2022

Appendix

C

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name: SCDHEC UST Division (last) (first) Address: 2600 Bull Street City: Columbia State: SC Zip: 29201-1708 Telephone: Work: Home:			7. PERMIT NUMBER: UMW-28719																																
2. LOCATION OF WELL: COUNTY: Florence Name: Jake Huggins Street Address: 4925 Pamplico Highway City: Florence Zip: 29505-0000 Latitude: 34.095212 Longitude: -79.697503			8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ Monitor Well ☐ Replacement																																
			9. WELL DEPTH (completed) Date Started: 2/28/22 10.0 ft. Date Completed: 2/28/22																																
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03423 TW-1			10. CASING: ☐ Threaded ☐ Welded Diam.: _____ Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other _____ in. to _____ ft. depth _____ in. to _____ ft. depth																																
						11. SCREEN: Type: Schedule 40 PVC Diam.: 1 Inch Slot/Gauge: 0.010 Length: 10.0 Set Between: 0.0 ft. and 10.0 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET Sieve Analysis ☐ Yes (please enclose) ☐ No																													
4. ABANDONMENT: ☒ Yes ☐ No Grouted Depth: from 10.0 ft. to 0.0 ft.			12. STATIC WATER LEVEL 3.09 ft. below land surface after 24 hours																																
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th style="width:70%;">Formation Description</th><th style="width:15%;">*Thickness of Stratum</th><th style="width:15%;">Depth to Bottom of Stratum</th></tr></thead><tbody><tr><td>TEMPORARY WELL HAND</td><td></td><td></td></tr><tr><td>AUGERED TO 10' BGS</td><td>10.0</td><td>10.0</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum	TEMPORARY WELL HAND			AUGERED TO 10' BGS	10.0	10.0																						13. PUMPING LEVEL Below Land Surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: ☐ Yes (please enclose) ☐ No Yield: _____		
			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																														
			TEMPORARY WELL HAND																																
			AUGERED TO 10' BGS	10.0	10.0																														
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 GROUDED? ☒ Yes ☐ No ☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____ Depth: From 10.0 ft. to 0.0 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: Jared Pawless CERT. NO.: 2100 Address: (Print) Level: A ☒ C ☐ D (circle one) 17538 Greenhill Road Charlotte, NC 28278 Telephone No.: 704-607-7529 Fax No.: 803-548-2233																																			
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: _____ Date: 3/7/2022 Well Driller If D Level Driller, provide supervising driller's name: Tommy Bolyard																																			
5. REMARKS: TW-1																																			
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☒ Other -Auger																																			



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095130 Longitude: -79.696604

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 SB-01

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 35.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
See Geologist Log (Table 1)		
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/2022.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: SB-01		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. NOTE: MULTIPLE SCREENS

ft. and ft. USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 35.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

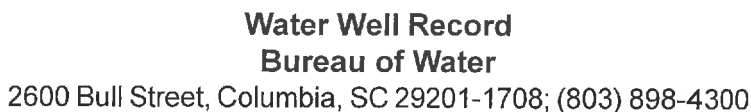
Fax No.:

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: Date: 3/1/2022

Well Driller

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



COPY 1 MAIL TO SCDHEC. COPY 2 TO WELL OWNER. COPY 3 TO WELL DRILLER



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095130 Longitude: -79.696604

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-01B

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 28.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	28.0	28.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-01B

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 28.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

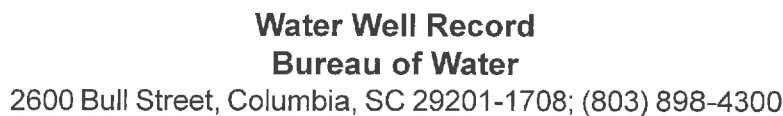
20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed:

Well Driller

Date: 3/1/2022

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



7. PERMIT NUMBER:

UMW-28719

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

Date Started:

____ ft. Date Completed: _____

☐ 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

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

ft. below land surface after 24 hours

_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____

Depth: From 24.0 ft. to 0.0 ft.

Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

Not installed ☐

Model No.: _____

Length of drop pipe _____ ft. Capacity _____ gpm

☐ Jet (shallow) ☐ Turbine

☐ Reciprocating ☐ Centrifugal

CERT. NO.: 02402

Address: (Print) Level: A B C D (circle one)
P.O. Box 8446 ✓
Columbia, South Carolina 29202
Telephone No.: 803-351-7936 Fax No.:

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: _____ Date: 3/1/2022
Well Driller

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

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095130 Longitude: -79.696604

PUBLIC SYSTEM NUMBER:

03423

FSP-01C

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 24.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	24.0	24.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-01C		

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



Water Well Record

Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095130 Longitude: -79.696604

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-01D

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 18.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL

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) ☐ 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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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Name: SCDHEC UST Division
(last) (first)
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Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095021 Longitude: -79.696628

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-02

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 18.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-02		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

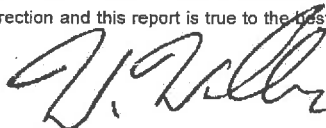
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:  Date: 3/1/2022

Well Driller

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



Water Well Record

Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095339 Longitude: -79.696734

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-03

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 18.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		
FSP-03		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft. Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

in. to ft. depth
in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL

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) ☐ 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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.094958** Longitude: **-79.696768**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-04

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-04		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **18.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

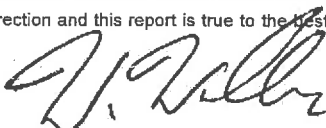
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: 
Well Driller

Date: **3/1/2022**

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095050** Longitude: **-79.696808**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-05A

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **33.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	33.0	33.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-05A		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **33.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____ Date: **3/1/2022**
Well Driller

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095050 Longitude: -79.696808

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-05B

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 28.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	28.0	28.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-05B		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 28.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095050 Longitude: -79.696808

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-05C

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 23.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 23.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095050 Longitude: -79.696808

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-05D

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 18.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-05D		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. NOTE: MULTIPLE SCREENS

ft. and ft. USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

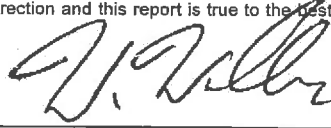
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:  Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095147** Longitude: **-79.696867**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-06

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **18.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095314** Longitude: **-79.696983**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-07

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremic pipe with		
Portland-Bentonite Cement Slurry		
on 1/10/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		
FSP-07		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **18.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.: _____

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: _____ Date: **3/1/2022**

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095545 Longitude: -79.696746

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-08

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 18.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

in. to ft. depth
in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:
Well Driller

Date: 3/1/2022

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

5. REMARKS:

FSP-08

6. TYPE:

☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☐ Other



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095398** Longitude: **-79.697029**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-09

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **18.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095593 Longitude: -79.697127

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-10A

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 30.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	30.0	30.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-10A

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 30.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095593** Longitude: **-79.697127**

3. PUBLIC SYSTEM NAME:
03423

PUBLIC SYSTEM NUMBER:
FSP-10B

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **25.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

NOTE: MULTIPLE SCREENS

_____ ft. and _____ ft.

USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **25.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

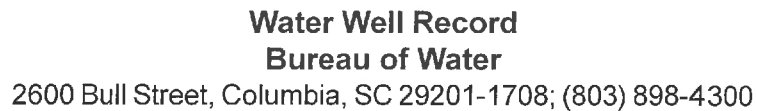
If D Level Driller, provide supervising driller's name:

5. REMARKS:

FSP-10B

6. TYPE:

☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☐ Other



COPY 1 MAIL TO SCDHEC. COPY 2 TO WELL OWNER. COPY 3 TO WELL DRILLER



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095593** Longitude: **-79.697127**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-10D

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **15.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-10D

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **15.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095707 Longitude: -79.697255

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-11

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 18.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095888** Longitude: **-79.697343**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-12

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **18.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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:

Well Driller

Date: **3/1/2022**

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.096029** Longitude: **-79.697438**

3. PUBLIC SYSTEM NAME: **03423** **PUBLIC SYSTEM NUMBER:** **FSP-13**

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-13		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **18.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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:

Well Driller

Date: **3/1/2022**

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096260 Longitude: -79.697585

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-14A

4. ABANDONMENT: ☒ Yes ☐ No

Give Details Below

Grouted Depth: from 30.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 30.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096260 Longitude: -79.697585

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-14B

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 25.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	25.0	25.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-14B		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 25.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____ Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096260 Longitude: -79.697585

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-14C

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 20.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	20.0	20.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-14C		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 20.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.096260** Longitude: **-79.697585**

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-14D

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **15.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-14D

6. TYPE:

☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☐ Other

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft. **NOTE: MULTIPLE SCREENS**

_____ ft. and _____ ft. **USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **15.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.: _____

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: _____

Well Driller

Date: **3/1/2022**

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.096685** Longitude: **-79.697817**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-15A

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **30.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **30.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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

5. REMARKS:

FSP-15A

6. TYPE: ☐ Mud Rotary

☐ Jetted

☐ Bored

☐ Dug

☐ Air Rotary

☐ Driven

☐ Cable tool

☐ Other



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096685 Longitude: -79.697817

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-15B

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 25.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 25.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096685 Longitude: -79.697817

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-15C

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 20.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	20.0	20.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-15C		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 20.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____ Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096685 Longitude: -79.697817

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-15D

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 15.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremic pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-15D		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____ Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095967** Longitude: **-79.697035**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-16

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-16		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **18.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095883 Longitude: -79.696909

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-17A

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 30.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	30.0	30.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-17A

6. TYPE:

☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☐ Other

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

NOTE: MULTIPLE SCREENS

USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL

_____ 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) ☐ 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 30.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.: _____

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: _____

Well Driller

Date: 3/1/2022

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



Water Well Record

Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins

Street Address: 4925 Pamplico Highway

City: Florence Zip: 29505-0000

Latitude: 34.095883 Longitude: -79.696909

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-17B

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 25.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	25.0	25.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		
FSP-17B		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 25.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____ Date: 3/1/2022

Well Driller

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095883 Longitude: -79.696909

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-17C

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 20.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	20.0	20.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-17C		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 20.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: Date: 3/1/2022

Well Driller

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



Water Well Record

Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
 (last) (first)
 Address: **2600 Bull Street**
 City: **Columbia** State: **SC** Zip: **29201-1708**
 Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
 Street Address: **4925 Pamplico Highway**
 City: **Florence** Zip: **29505-0000**
 Latitude: **34.095883** Longitude: **-79.696909**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-17D

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **15.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **15.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: **3/1/2022**

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones		
(Use a 2nd sheet if needed)		
5. REMARKS:		
FSP-17D		

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division** (last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095712** Longitude: **-79.696849**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-18

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-18		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **18.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

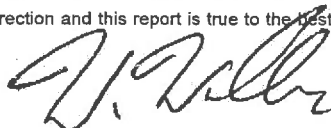
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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:  Date: **3/1/2022**

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name: SCDHEC UST Division (last) (first) Address: 2600 Bull Street City: Columbia State: SC Zip: 29201-1708 Telephone: Work: Home:			7. PERMIT NUMBER: UMW-28719																																												
2. LOCATION OF WELL: COUNTY: Florence Name: Jake Huggins Street Address: 4925 Pamplico Highway City: Florence Zip: 29505-0000 Latitude: 34.095588 Longitude: -79.696522			8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☐ Monitor Well ☐ Replacement																																												
			9. WELL DEPTH (completed) Date Started: _____ ft. Date Completed: _____ ft.																																												
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03423 FSP-19A			10. CASING: ☐ Threaded ☐ Welded Diam.: _____ Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other _____ in. to _____ ft. depth _____ in. to _____ ft. depth																																												
			Height: Above/Below _____ ft. Surface _____ lb./ft. Weight _____ lb./ft. Drive Shoe? ☐ Yes ☐ No																																												
4. ABANDONMENT: ☒ Yes ☐ No Give Details Below Grouted Depth: from 30.0 ft. to 0.0 ft.			11. SCREEN: Type: _____ Diam.: _____ Slot/Gauge: _____ Length: _____ Set Between: _____ ft. and _____ ft. _____ ft. and _____ ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET Sieve Analysis ☐ Yes (please enclose) ☐ No																																												
			12. STATIC WATER LEVEL _____ ft. below land surface after 24 hours																																												
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th style="width:70%;">Formation Description</th><th style="width:15%;">*Thickness of Stratum</th><th style="width:15%;">Depth to Bottom of Stratum</th></tr></thead><tbody><tr><td>DIRECT PUSH WATER SAMPLE</td><td></td><td></td></tr><tr><td>(NO SOIL TAKEN)</td><td>30.0</td><td>30.0</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td>Temporary Boring Abandoned</td><td> </td><td> </td></tr><tr><td>by William Walker Environmental</td><td> </td><td> </td></tr><tr><td>via tremie pipe with</td><td> </td><td> </td></tr><tr><td>Portland-Bentonite Cement Slurry</td><td> </td><td> </td></tr><tr><td>on 1/11/22.</td><td> </td><td> </td></tr><tr><td>*Indicate Water Bearing Zones (Use a 2nd sheet if needed)</td><td> </td><td> </td></tr></tbody></table>			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum	DIRECT PUSH WATER SAMPLE			(NO SOIL TAKEN)	30.0	30.0																Temporary Boring Abandoned			by William Walker Environmental			via tremie pipe with			Portland-Bentonite Cement Slurry			on 1/11/22.			*Indicate Water Bearing Zones (Use a 2nd sheet if needed)			13. PUMPING LEVEL Below Land Surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: ☐ Yes (please enclose) ☐ No Yield: _____		
			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																																										
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5. REMARKS: FSP-19A			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 _____																																												
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other			16. WELL GROUTED? ☒ Yes ☐ No ☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____ Depth: From 30.0 ft. to 0.0 ft.																																												
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction Type _____ Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____																																												
19. WELL DRILLER: William Walker CERT. NO.: 02402 Address: (Print) _____ Level: A B C D (circle one) ✓ P.O. Box 8446 Columbia, South Carolina 29202 Telephone No.: 803-351-7936 Fax No.: _____			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																																												
			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: _____ Date: 3/1/2022 Well Driller If D Level Driller, provide supervising driller's name:																																												



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095588 Longitude: -79.696522

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-19B

4. ABANDONMENT: ☒ Yes ☐ No

Give Details Below

Grouted Depth: from 25.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	25.0	25.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-19B		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No**11. SCREEN:**

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**Sieve Analysis ☐ Yes (please enclose) ☐ No**12. STATIC WATER LEVEL** _____ 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) ☐ No

Yield: _____

14. WATER QUALITYChemical 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 25.0 ft. to 0.0 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:** William Walker**CERT. NO.:** 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

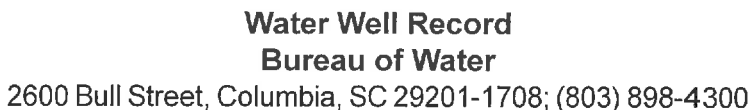
20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____

Well Driller

Date: 3/1/2022

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



COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095588 Longitude: -79.696522

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-19D

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 15.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

in. to ft. depth
in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS

USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095742** Longitude: **-79.696195**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-20

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **15.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremic pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-20		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **15.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

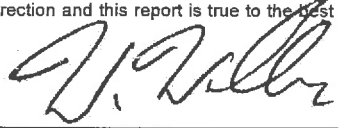
Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:  Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095447** Longitude: **-79.696044**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-21A

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **30.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. **NOTE: MULTIPLE SCREENS**

ft. and ft. **USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **30.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

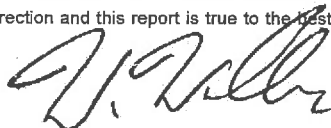
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: 
Well Driller

Date: **3/1/2022**

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095447** Longitude: **-79.696044**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-21B

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **25.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below _____ ft.

Surface _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **25.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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

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

5. REMARKS:

FSP-21B

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

Temporary Boring Abandoned

by William Walker Environmental

via tremie pipe with

Portland-Bentonite Cement Slurry

on 1/11/22.



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095447 Longitude: -79.696044

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-21C

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 20.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	20.0	20.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/11/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-21C

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. NOTE: MULTIPLE SCREENS

ft. and ft. USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 20.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:
Well Driller

Date: 3/1/2022

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095447 Longitude: -79.696044

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-21D

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 15.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.: _____

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: _____

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095202** Longitude: **-79.695936**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-22

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

in. to ft. depth
in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **18.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: **02402**

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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:

Well Driller

Date: **3/1/2022**

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095688** Longitude: **-79.696536**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-23

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-23		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **18.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

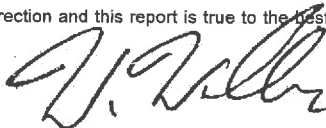
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: 
Well Driller

Date: **3/1/2022**

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095923** Longitude: **-79.696675**

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-24A

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **30.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	30.0	30.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-24A		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

in. to ft. depth
in. to ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **30.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095923 Longitude: -79.696675

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-24B

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 25.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

in. to ft. depth
in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. NOTE: MULTIPLE SCREENS

ft. and ft. USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 25.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095923 Longitude: -79.696675

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-24C

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 20.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	20.0	20.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

FSP-24C

6. TYPE:

☐ Mud Rotary ☐ Jetted ☐ Bored
☐ Dug ☐ Air Rotary ☐ Driven
☐ Cable tool ☐ Other

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. NOTE: MULTIPLE SCREENS

ft. and ft. USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL

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) ☐ 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 20.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095923 Longitude: -79.696675

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-24D

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 15.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.096003 Longitude: -79.696738

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-25

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 15.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-25		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: _____ Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.094647** Longitude: **-79.696600**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-26

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **18.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-26		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **18.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

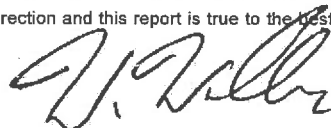
P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:  Date: 3/1/2022

Well Driller

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.094686 Longitude: -79.697041

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-27

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 18.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	18.0	18.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-27		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 18.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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: Date: 3/1/2022

Well Driller

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.094998 Longitude: -79.697256

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-28A

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 30.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. NOTE: MULTIPLE SCREENS

ft. and ft. USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 30.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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

5. REMARKS:

FSP-28A

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

Temporary Boring Abandoned

by William Walker Environmental

via tremie pipe with

Portland-Bentonite Cement Slurry

on 1/12/22.



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.094998** Longitude: **-79.697256**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-28B

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **25.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	25.0	25.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-28B		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized
☐ Steel ☐ Other

_____ in. to _____ ft. depth
_____ in. to _____ ft. depth

Height: Above/Below _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **25.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.094998** Longitude: **-79.697256**

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-28C

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **20.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 **20.0** ft. to **0.0** 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: William Walker

CERT. NO.: **02402**

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____

Well Driller

Date: **3/1/2022**

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.094998 Longitude: -79.697256

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-28D

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 15.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Date: 3/1/2022

Well Driller

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

5. REMARKS:

FSP-28D

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095130** Longitude: **-79.697343**

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-29

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from **18.0** ft. to **0.0** ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft. **NOTE: MULTIPLE SCREENS**

ft. and ft. **USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 **18.0** ft. to **0.0** 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: **William Walker**

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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:

Well Driller

Date: **3/1/2022**

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

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095521 Longitude: -79.697585

3. PUBLIC SYSTEM NAME:

PUBLIC SYSTEM NUMBER:

03423

FSP-31A

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from 30.0 ft. to 0.0 ft.

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING:

☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL

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) ☐ 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 30.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: **SCDHEC UST Division**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip: **29201-1708**
Telephone: Work: Home:

2. LOCATION OF WELL:

COUNTY: **Florence**

Name: **Jake Huggins**
Street Address: **4925 Pamplico Highway**
City: **Florence** Zip: **29505-0000**
Latitude: **34.095521** Longitude: **-79.697585**

3. PUBLIC SYSTEM NAME:

03423

PUBLIC SYSTEM NUMBER:

FSP-31B

4. ABANDONMENT:

☒ Yes ☐ No

Give Details Below

Grouted Depth: from **25.0** ft. to **0.0** ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	25.0	25.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-31B		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

_____ ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL _____ 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) ☐ 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 **25.0** ft. to **0.0** 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: **803-351-7936**

Fax No.:

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: _____ Date: **3/1/2022**

Well Driller

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



Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095521 Longitude: -79.697585

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-31C

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 20.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	20.0	20.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-31C		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

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

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 20.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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:

Well Driller

Date: 3/1/2022

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



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:

Name: SCDHEC UST Division
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Florence

Name: Jake Huggins
Street Address: 4925 Pamplico Highway
City: Florence Zip: 29505-0000
Latitude: 34.095521 Longitude: -79.697585

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
03423 FSP-31D

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 15.0 ft. to 0.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
DIRECT PUSH WATER SAMPLE		
(NO SOIL TAKEN)	15.0	15.0
Temporary Boring Abandoned		
by William Walker Environmental		
via tremie pipe with		
Portland-Bentonite Cement Slurry		
on 1/12/22.		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: FSP-31D		

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

7. PERMIT NUMBER:

UMW-28719

8. USE:

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

9. WELL DEPTH (completed)

Date Started:

ft.

Date Completed:

10. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

in. to ft. depth

in. to ft. depth

Height: Above/Below

Surface ft.

Weight lb./ft.

Drive Shoe? ☐ Yes ☐ No

11. SCREEN:

Type: Diam.:

Slot/Gauge: Length:

Set Between: ft. and ft.

ft. and ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

12. STATIC WATER LEVEL 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) ☐ 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 15.0 ft. to 0.0 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: William Walker

CERT. NO.: 02402

Address: (Print)

Level: A B C D (circle one)

P.O. Box 8446

Columbia, South Carolina 29202

Telephone No.: 803-351-7936

Fax No.:

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.

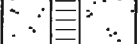
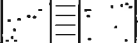
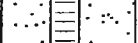
Signed:

Well Driller

Date: 3/1/2022

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

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Brown, Silty Fine SAND												
5		0.0											
	Brown, Clayey Fine SAND												
10		0.0											
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 2.18 Feet Below Top of Casing on 2/11/2022.	3.4											
15													
20													
25													
30													
35													

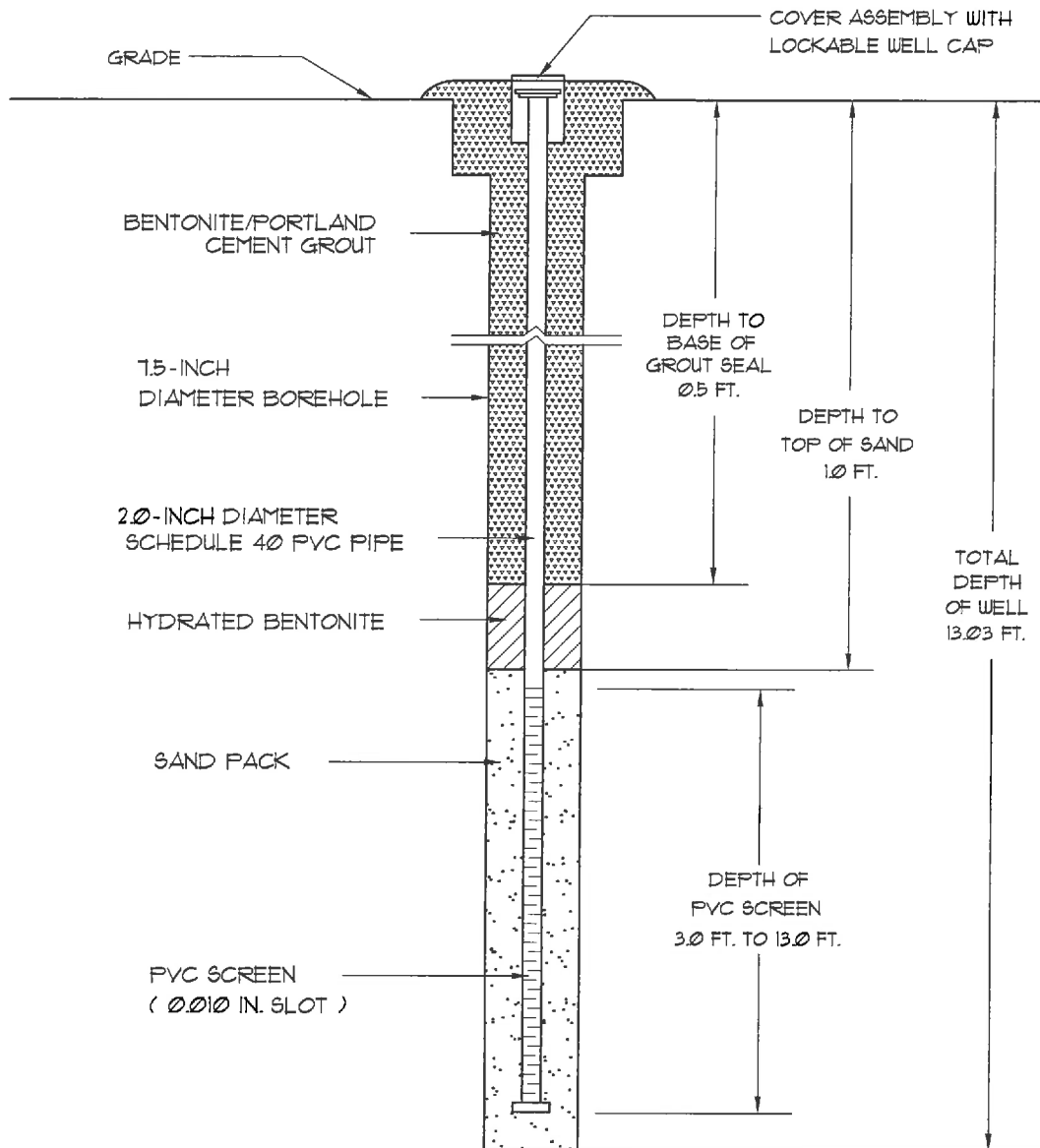
TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

Boring Number: 03423-MW01
 Date Drilled: 2/7/2022
 Drilled By: EDPs, LLC.
 Logged By: T. Brown

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29013
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

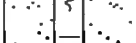
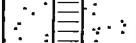


Well Number:	03423-MW01
Date Drilled:	2/1/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. ID#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 806-2043 fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram 0	Penetration Blows Per Foot									
				5	10	20	40	60	80	100			
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Gray, Silty Fine SAND												
5		4.0											
	Tan/Gray, Clayey Fine to Medium SAND												
10		2.5											
	Yellow, Clayey Medium SAND												
15		1.1											
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 1.98 Feet Below Top of Casing on 2/11/2022.												
20													
25													
30													
35													

TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

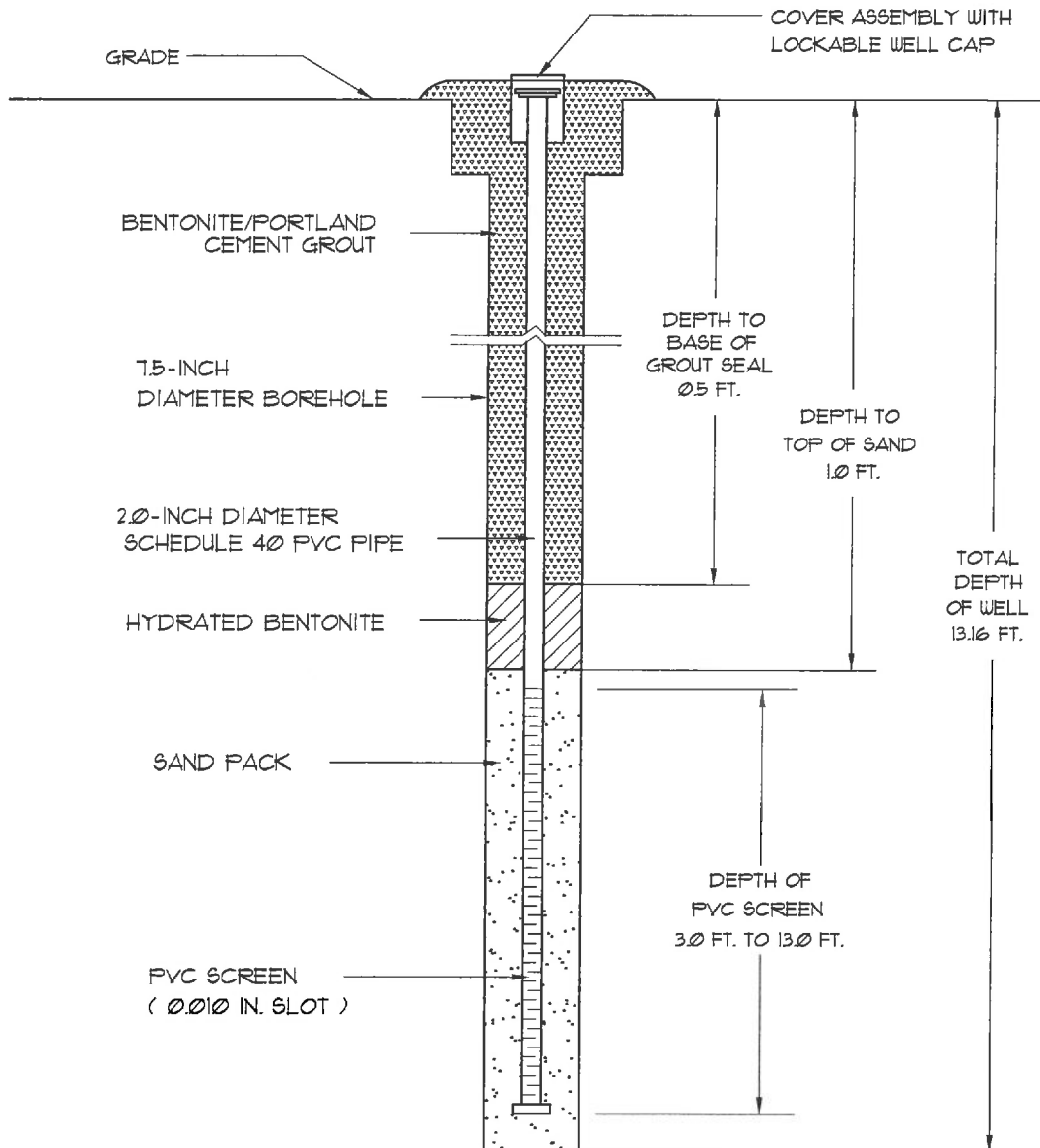
Boring Number: 03423-MW02
 Date Drilled: 2/7/2022
 Drilled By: EDPs, LLC.
 Logged By: T. Brown

Prepared By:

Midlands
 Environmental
 Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29013
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

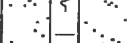
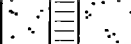
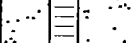
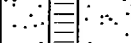
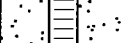
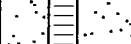


Well Number:	03423-MW02
Date Drilled:	2/1/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Brown, Organic, Silty Fine SAND												
5		57.6											
	Yellow/Brown, Fine Sandy CLAY												
10		85.3											
	Yellow, Medium SAND												
15		6.1											
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 2.08 Feet Below Top of Casing on 2/11/2022.												
20													
25													
30													
35													

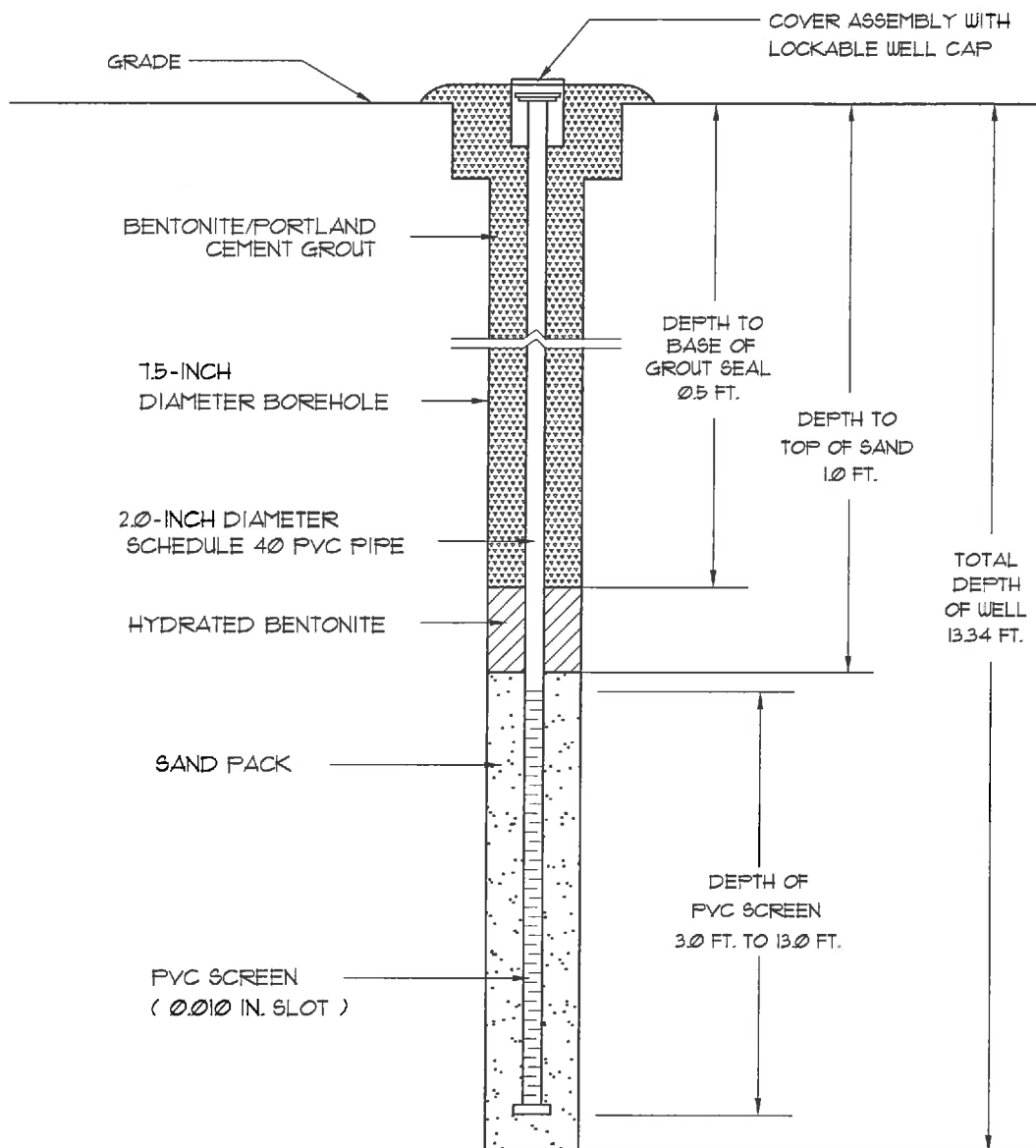
TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-1109

Boring Number: 03423-MW03
 Date Drilled: 2/7/2022
 Drilled By: EDPs, LLC.
 Logged By: T. Brown

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

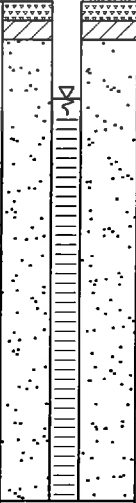


Well Number:	03423-MW03
Date Drilled:	2/7/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. ID#: D 2100
Logged By:	T. Brown

Prepared By:

**Midlands
 Environmental
 Consultants, Inc.**

231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Yellow/Brown, Clayey Medium SAND												
5	Yellow, Fine Sandy CLAY	0.0											
10		0.0											
15	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 2.49 Feet Below Top of Casing on 2/11/2022.	0.0											
20													
25													
30													
35													

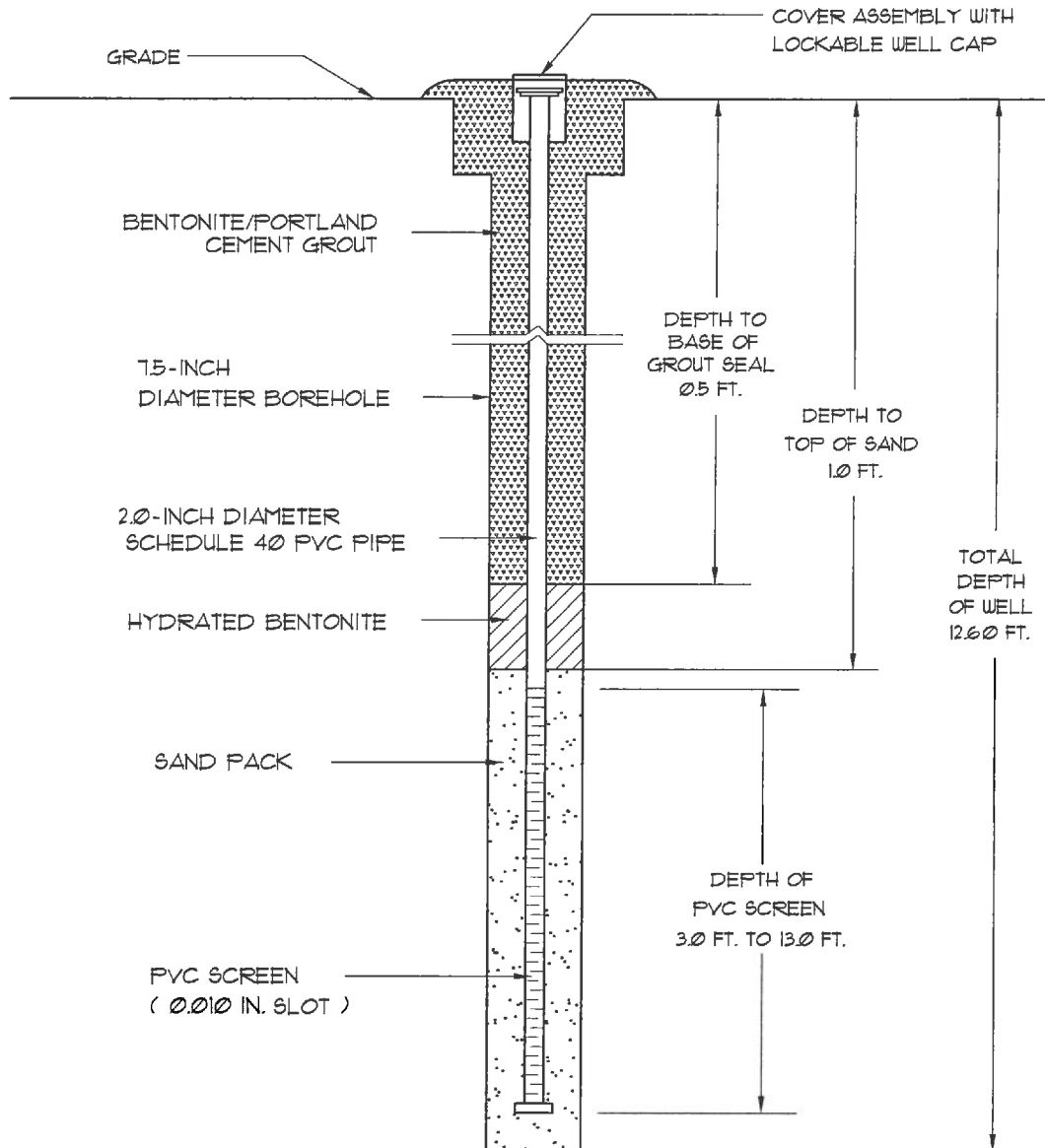
TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

Boring Number: 03423-MW04
 Date Drilled: 2/7/2022
 Drilled By: EDP9, LLC.
 Logged By: T. Brown

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29013
 (803) 808-2043 Fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-T109



Well Number:	03423-MW04
Date Drilled:	2/1/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

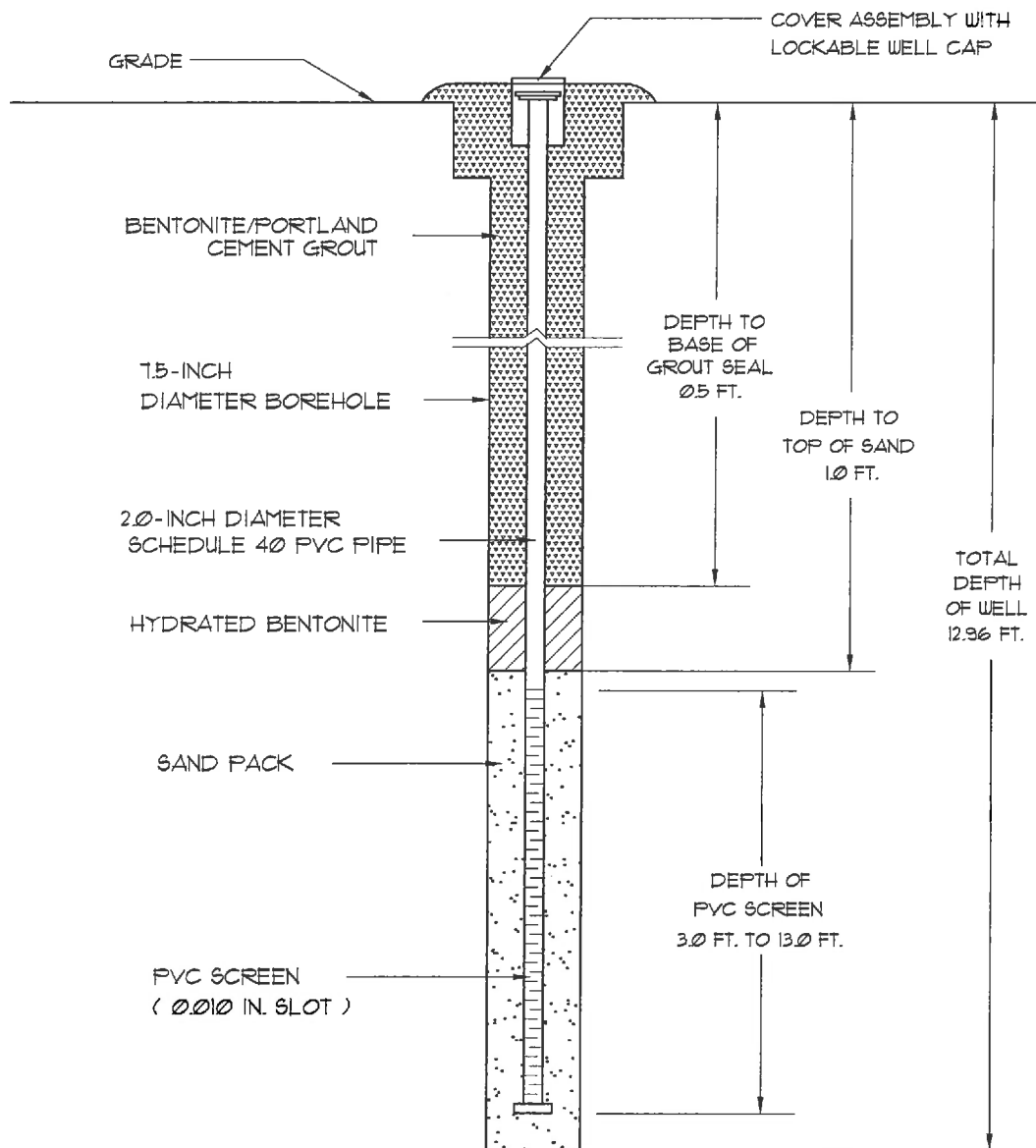
TEST BORING RECORD
Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

Logged By: T. Brown

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709



Well Number:	03423-MW05
Date Drilled:	2/7/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 Fax: 808-2048

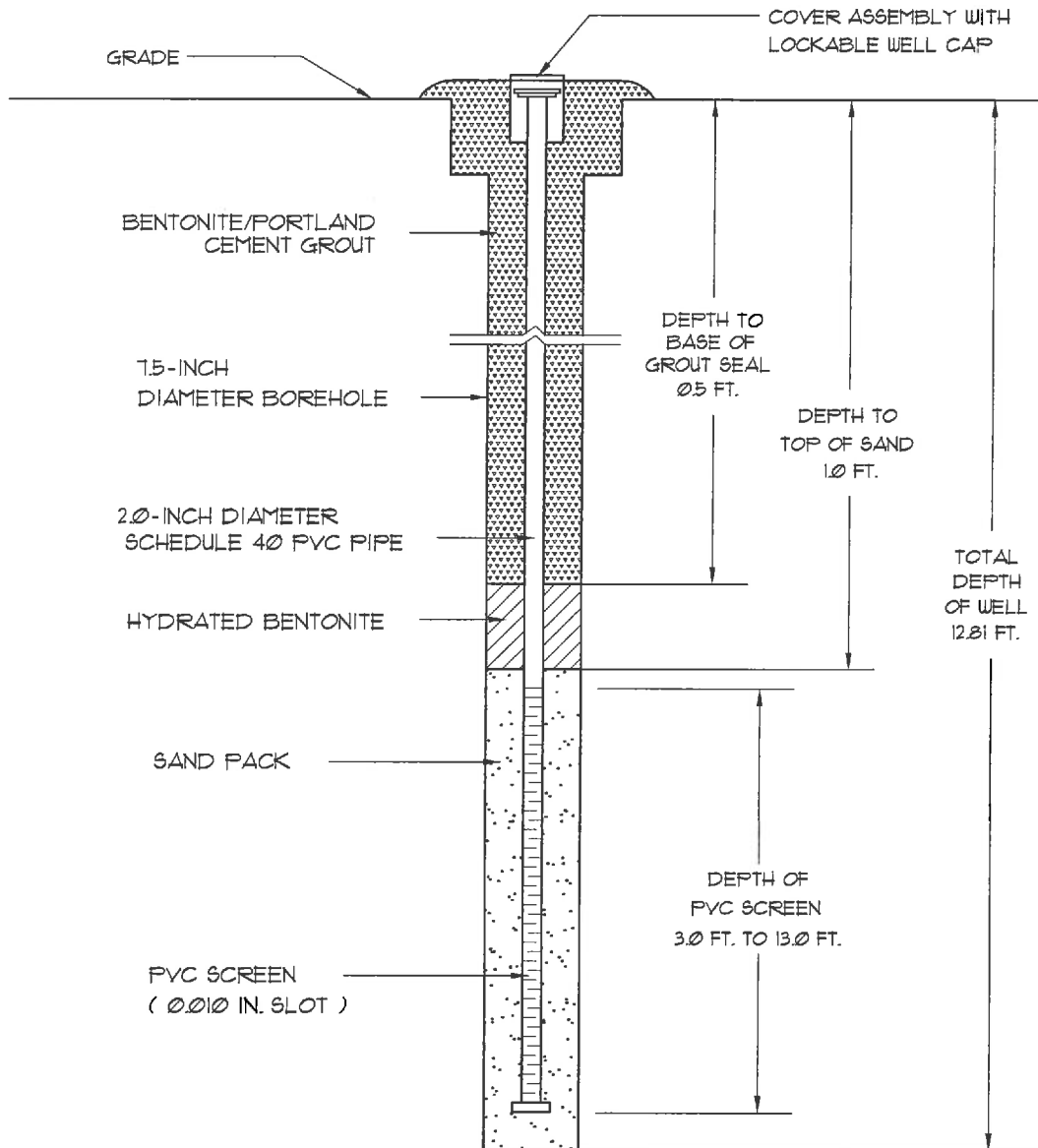
TEST BORING RECORD
Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

Logged By: T. Brown

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

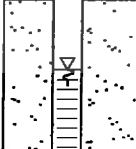
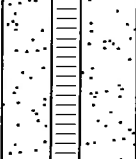
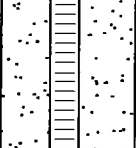


Well Number:	03423-MW06
Date Drilled:	2/1/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram 0	Penetration Blows Per Foot									
				5	10	20	40	60	80	100			
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Tan/Brown, Fine Sandy CLAY												
5		6.1									NO BLOWCOUNTS RECORDED		
	Brown, Fine to Medium Sandy CLAY												
10		414.4											
	Brown/Yellow, Clayey Fine SAND												
15		183.7											
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 2.81 Feet Below Top of Casing on 2/11/2022.												
20													
25													
30													
35													

TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

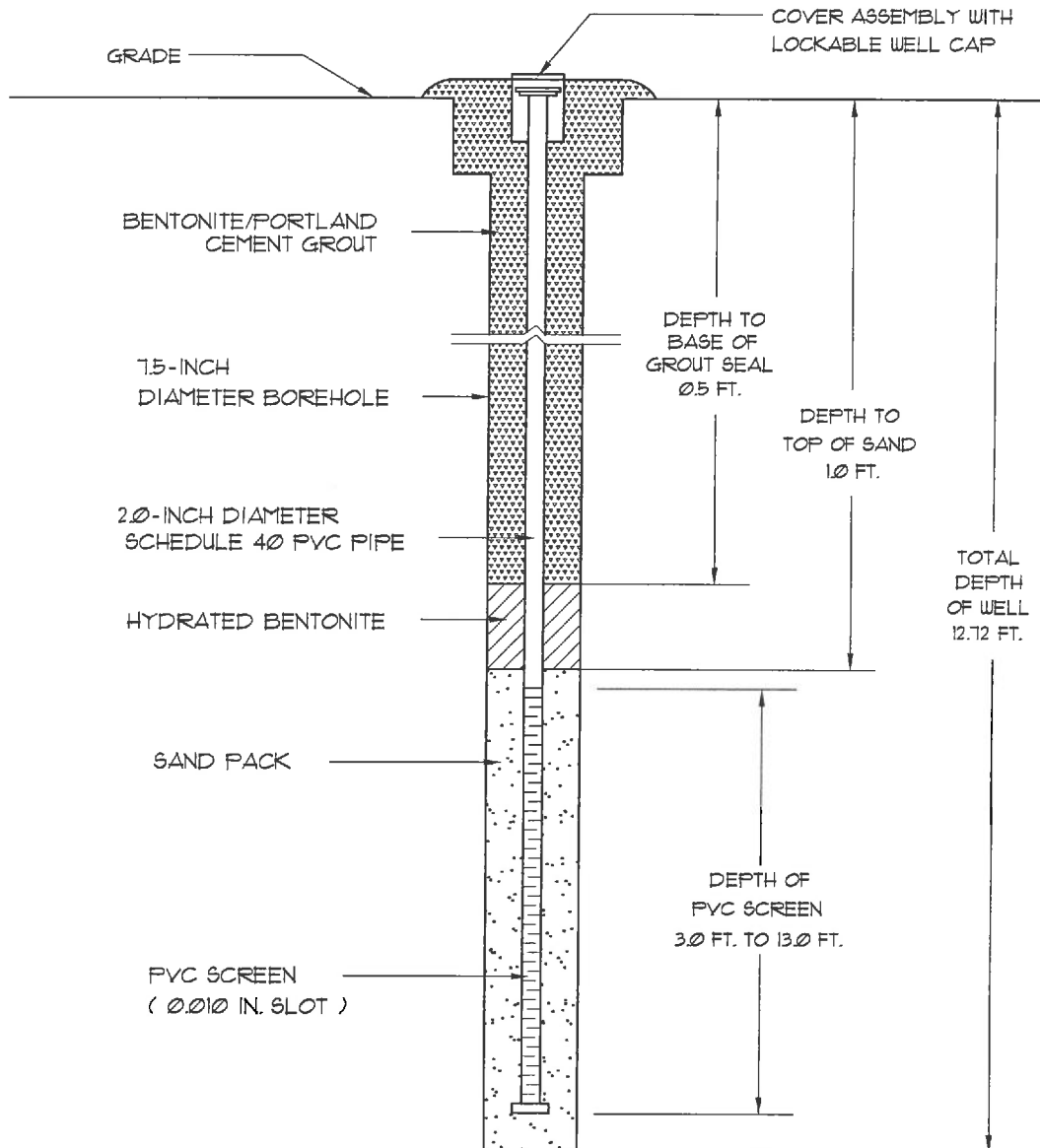
Boring Number:	03423-MW07
Date Drilled:	2/7/2022
Drilled By:	EDPS, LLC.
Logged By:	T. Brown

Prepared By:

Midlands Environmental Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

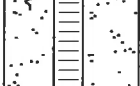
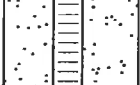


Well Number:	03423-MW07
Date Drilled:	2/1/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29013
(803) 808-2043 fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Yellow/Brown, Fine Sandy CLAY												
5		67.1										NO BLOWCOUNTS RECORDED	
	Yellow/Brown, Clayey Fine SAND												
10		278.9											
	Yellow/Brown, Clayey Medium SAND												
15		188.6											
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 3.18 Feet Below Top of Casing on 2/11/2022.												
20													
25													
30													
35													

TEST BORING RECORD

Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

Boring Number: 03423-MW08

Date Drilled: 2/8/2022

Drilled By: EDPs, LLC.

Logged By: T. Brown

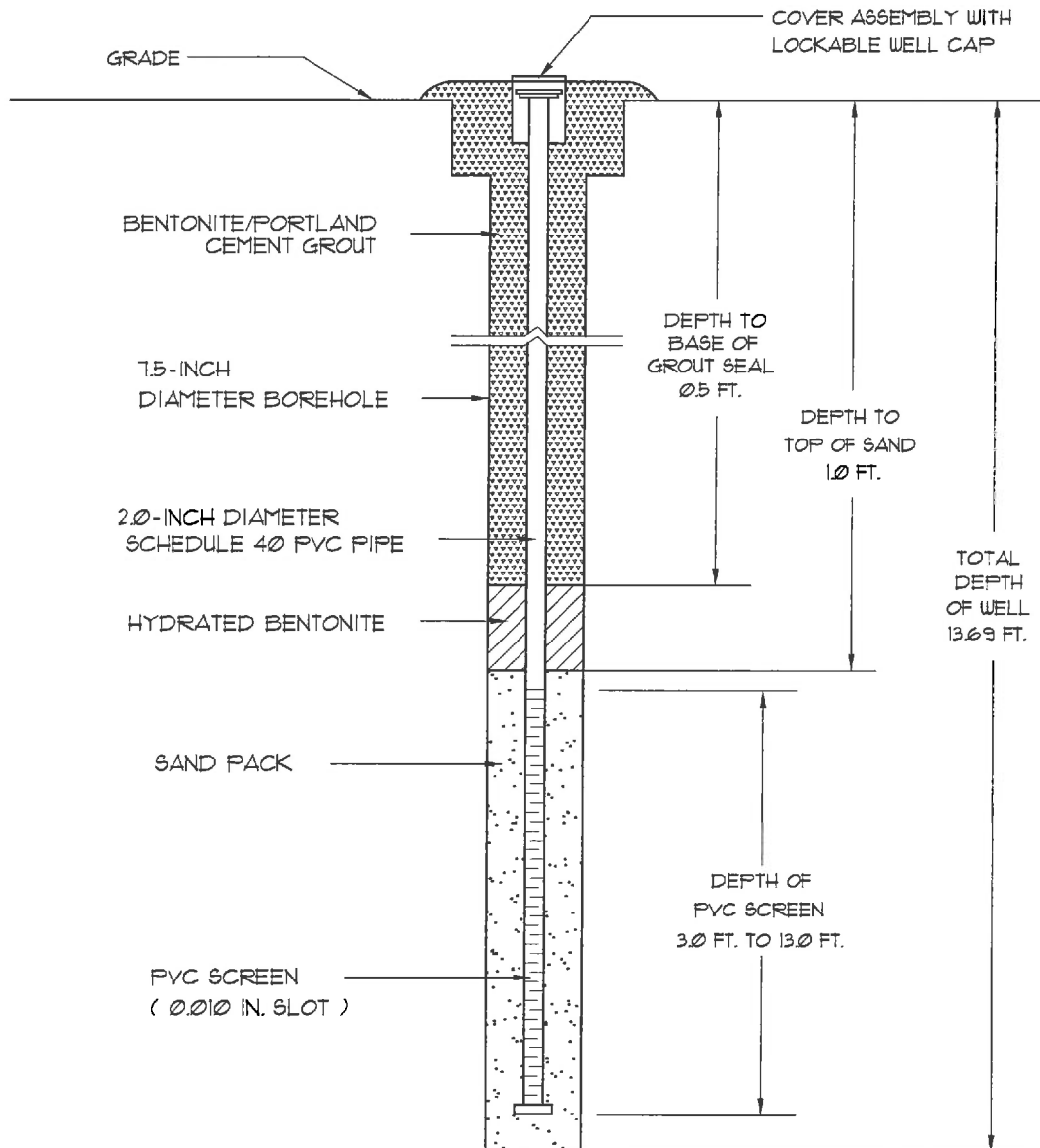
Prepared By:


Midlands
Environmental
Consultants, Inc.

231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 Fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709



Well Number:	03423-MW08
Date Drilled:	2/8/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram 0	Penetration Blows Per Foot									
				5	10	20	40	60	80	100			
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Yellow/Brown, Fine Sandy CLAY												
5		24.3									NO BLOWCOUNTS RECORDED		
	Brown, Clayey Fine SAND												
10		8.6											
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 3.30 Feet Below Top of Casing on 2/11/2022.	13.4											
15													
20													
25													
30													
35													

TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

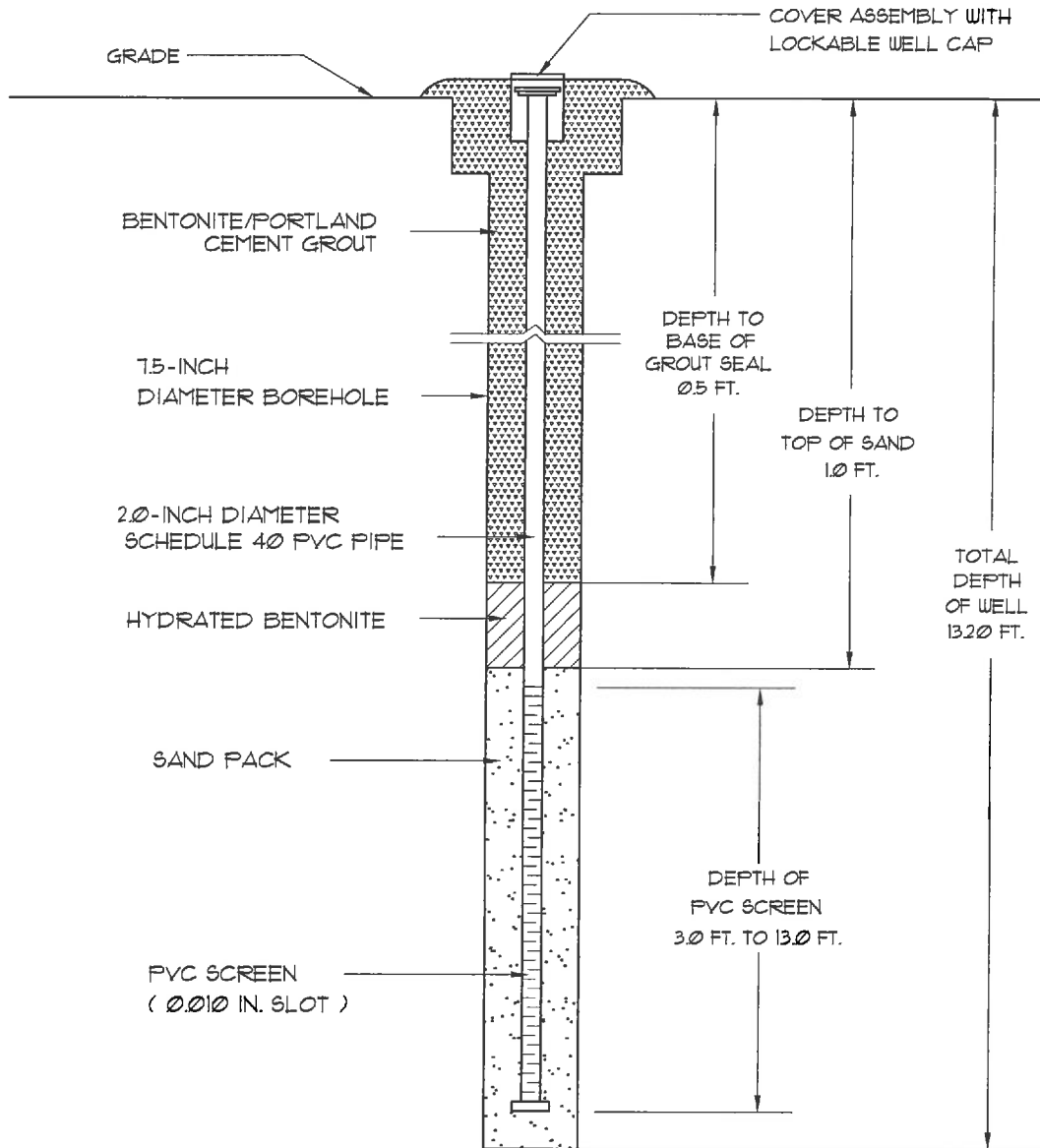
Boring Number:	03423-MW09
Date Drilled:	2/8/2022
Drilled By:	EDPS, LLC.
Logged By:	T. Brown

Prepared By:


Midlands
Environmental
Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709

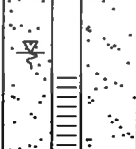
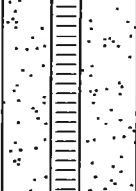
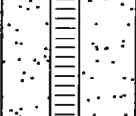


Well Number:	03423-MW09
Date Drilled:	2/8/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

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Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				5	10	20	40	60	80	100			
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Gray/Brown, Fine Sandy CLAY												
5		5.8									NO BLOWCOUNTS RECORDED		
	Yellow/Brown, Fine Sandy CLAY												
10		57.4											
	Yellow, Medium SAND												
	Boring Terminated at 13.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 13.0 Feet BGS. Groundwater Measured at 2.55 Feet Below Top of Casing on 2/11/2022.	1.0											
15													
20													
25													
30													
35													

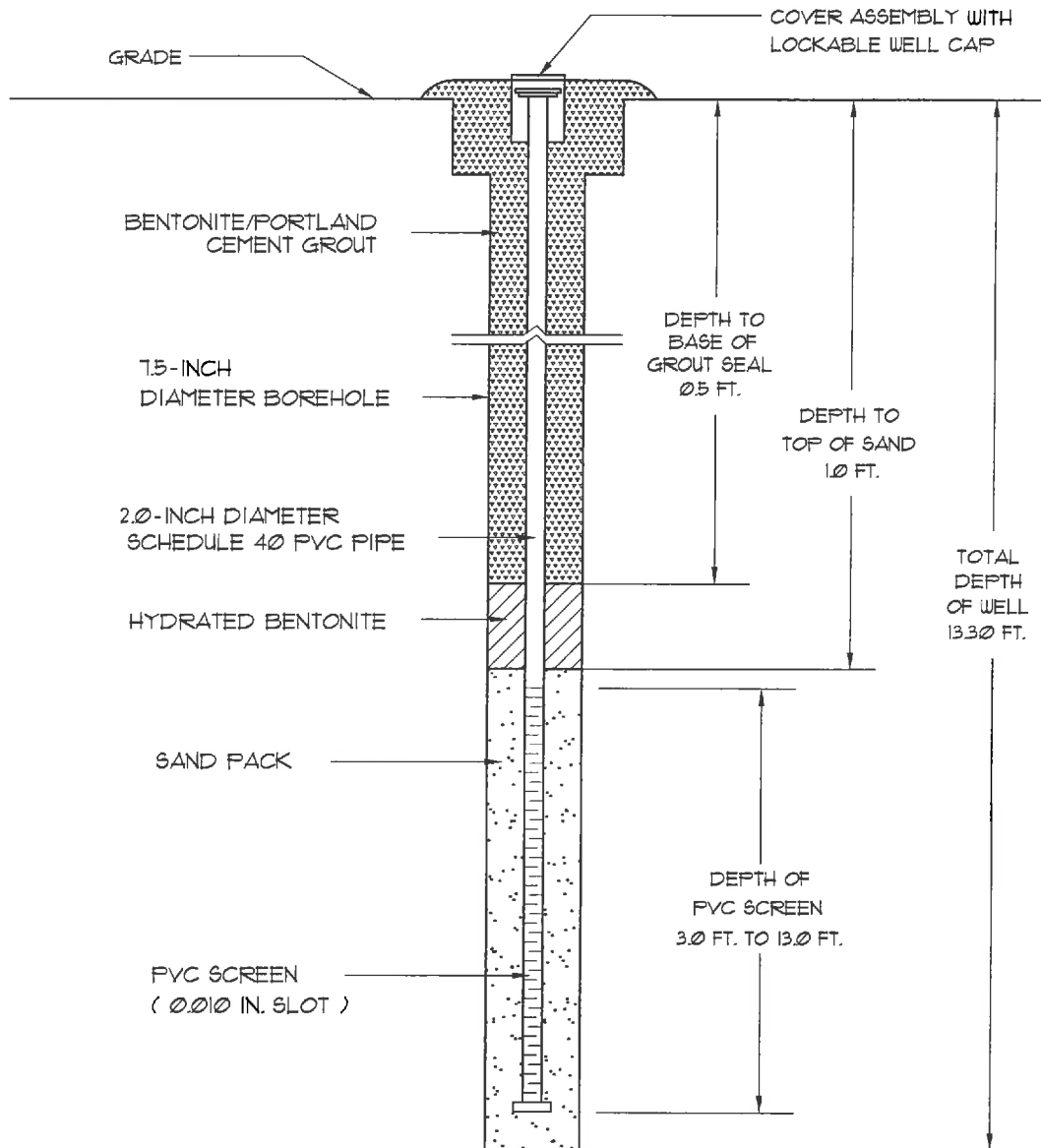
TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

Boring Number: 03423-MW10
 Date Drilled: 2/8/2022
 Drilled By: EDPS, LLC.
 Logged By: T. Brown

Prepared By:
 Midlands
 Environmental
 Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709



Well Number:	03423-MW10
Date Drilled:	2/8/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.
231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Brown, Silty Fine SAND												
5		1.6										NO BLOWCOUNTS RECORDED	
	Brown, Clayey Fine SAND												
10		5.1											
15		14.4											
20	Yellow/Brown, Clayey Medium SAND NOTE: 10.0-inch boring terminated at 20.0 feet. 6-inch outer casing set at 20.0 feet and 4.0-inch boring initiated.	3.5											
25	Boring Terminated at 25.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 25.0 Feet BGS. Groundwater Measured at 2.02 Feet Below Top of Casing on 2/11/2022.	2.3											
30													
35													

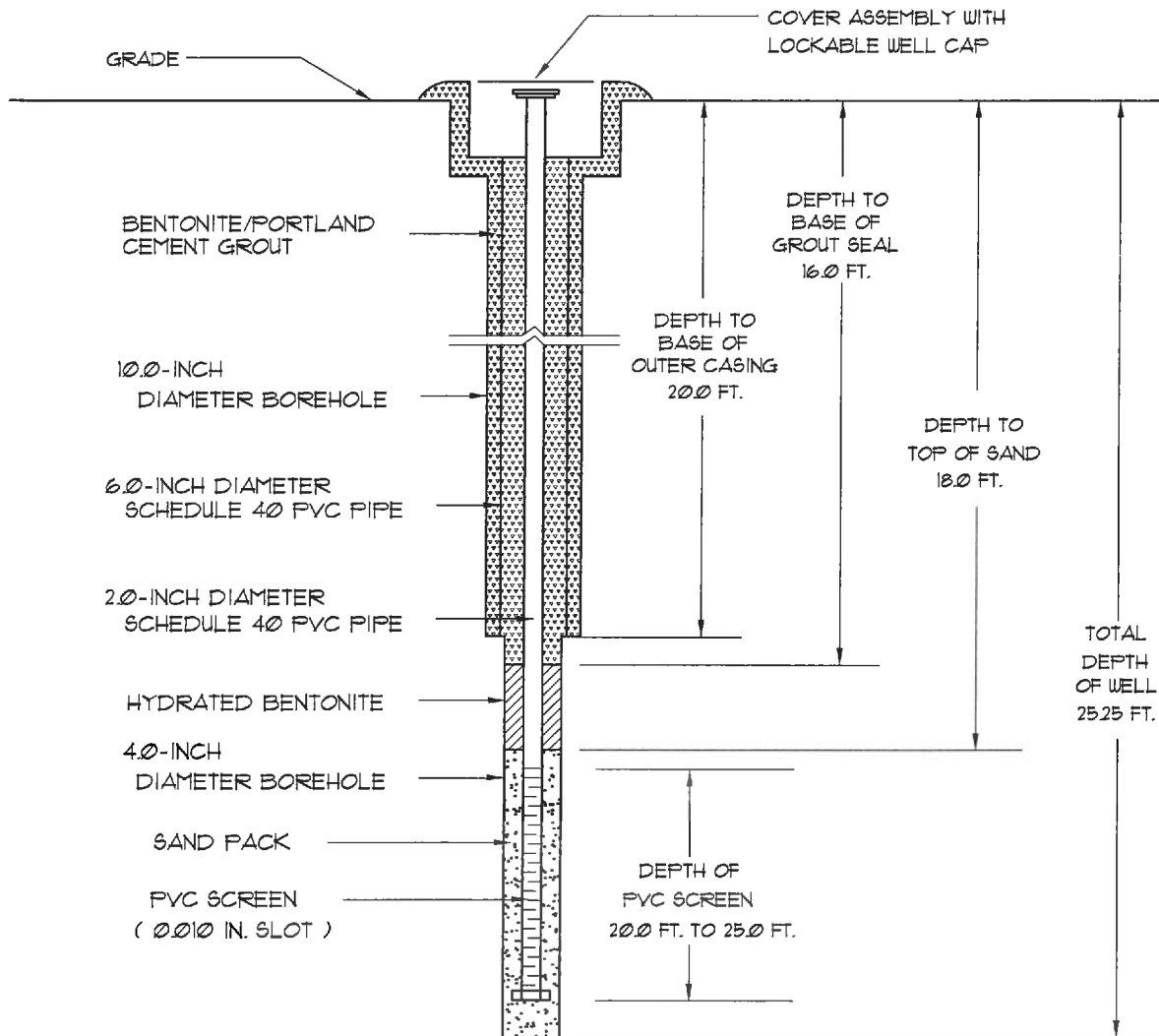
TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

Boring Number:	03423-DW01
Date Drilled:	2/7/22-2/8/22
Drilled By:	EDPS, LLC.
Logged By:	T. Brown

Prepared By:
Midlands
Environmental
Consultants, Inc.
 231 Dooley Road
 Lexington, South Carolina 29013
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-TT09



Well Number:	03423-DW01
Date Drilled:	2/1/2022-2/8/2022
Drilled By:	EDPS, LLC.
Driller:	J. Pawless S.C. I.D. #: D2100
Logged By:	T. Brown

Prepared By:

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231 Dooley Road
Lexington, South Carolina 29013
(803) 808-2043 fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Gray/Brown, Fine Sandy CLAY												
5		1.1										NO BLOWCOUNTS RECORDED	
	Yellow/Brown, Fine Sandy CLAY												
10		0.9											
	Yellow, Medium SAND												
15		1.7											
20		0.8											
25		0.0											
	Boring Terminated at 25.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 25.0 Feet BGS. Groundwater Measured at 2.05 Feet Below Top of Casing on 2/11/2022.												
30													
35													

TEST BORING RECORD
 Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

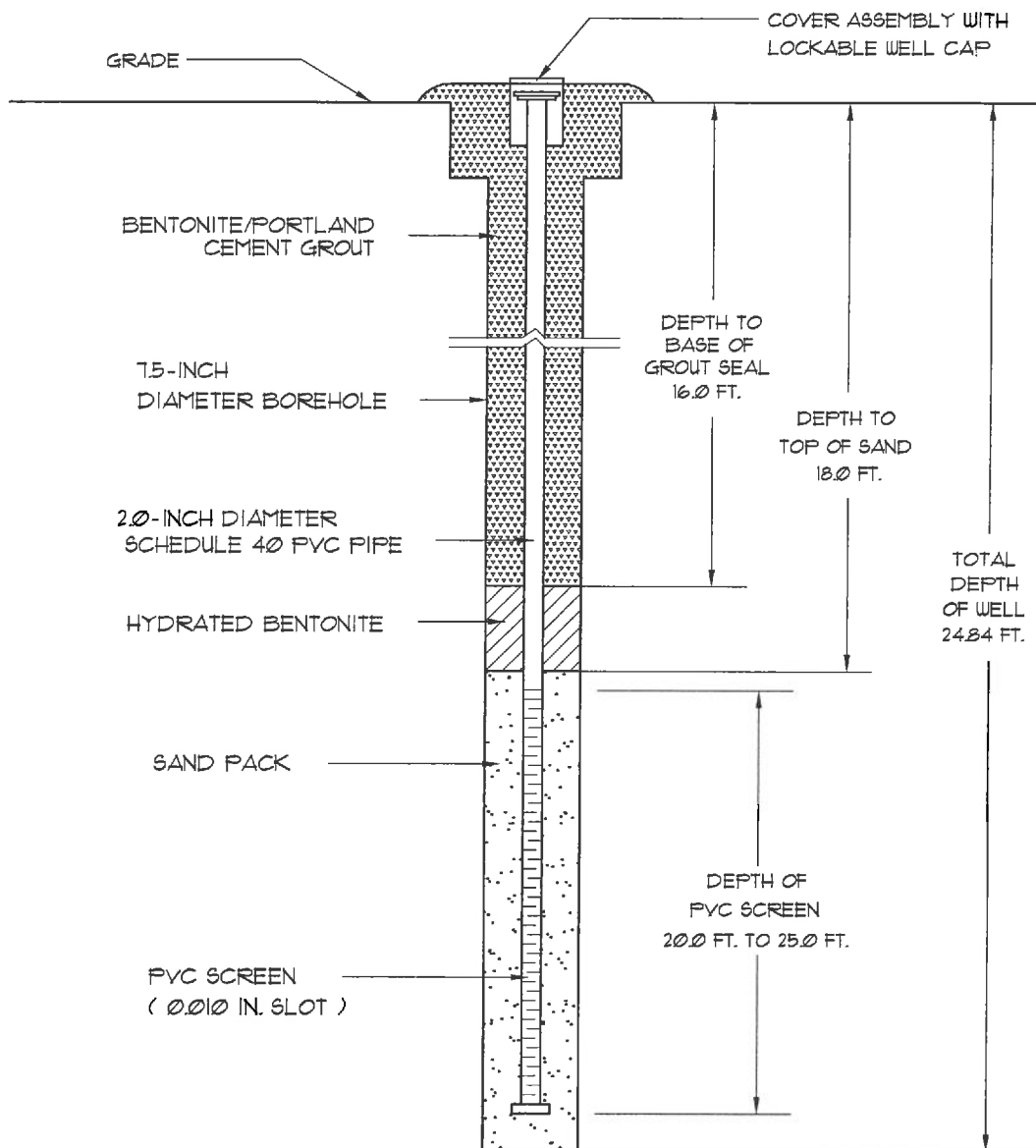
Boring Number:	03423-DW02
Date Drilled:	2/7/2022
Drilled By:	EDPS, LLC.
Logged By:	T. Brown

Prepared By:

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 231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709



Well Number:	03423-DW02
Date Drilled:	2/8/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

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Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot									
				0	5	10	20	40	60	80	100		
	Grass with Topsoil												
	COASTAL PLAIN SEDIMENT: Yellow/Brown, Fine Sandy CLAY												
5		7.2										NO BLOWCOUNTS RECORDED	
10		397.6											
15		156.9											
20		111.9											
25	Boring Terminated at 25.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 25.0 Feet BGS. Groundwater Measured at 2.48 Feet Below Top of Casing on 2/11/2022.	84.6											
30													
35													

TEST BORING RECORD

Jake Huggins

Florence, South Carolina

SCDHEC Site ID# 03423

MECI Project Number 21-7709

Boring Number: 03423-DW03

Date Drilled: 2/7/2022

Drilled By: EDPs, LLC.

Logged By: T. Brown

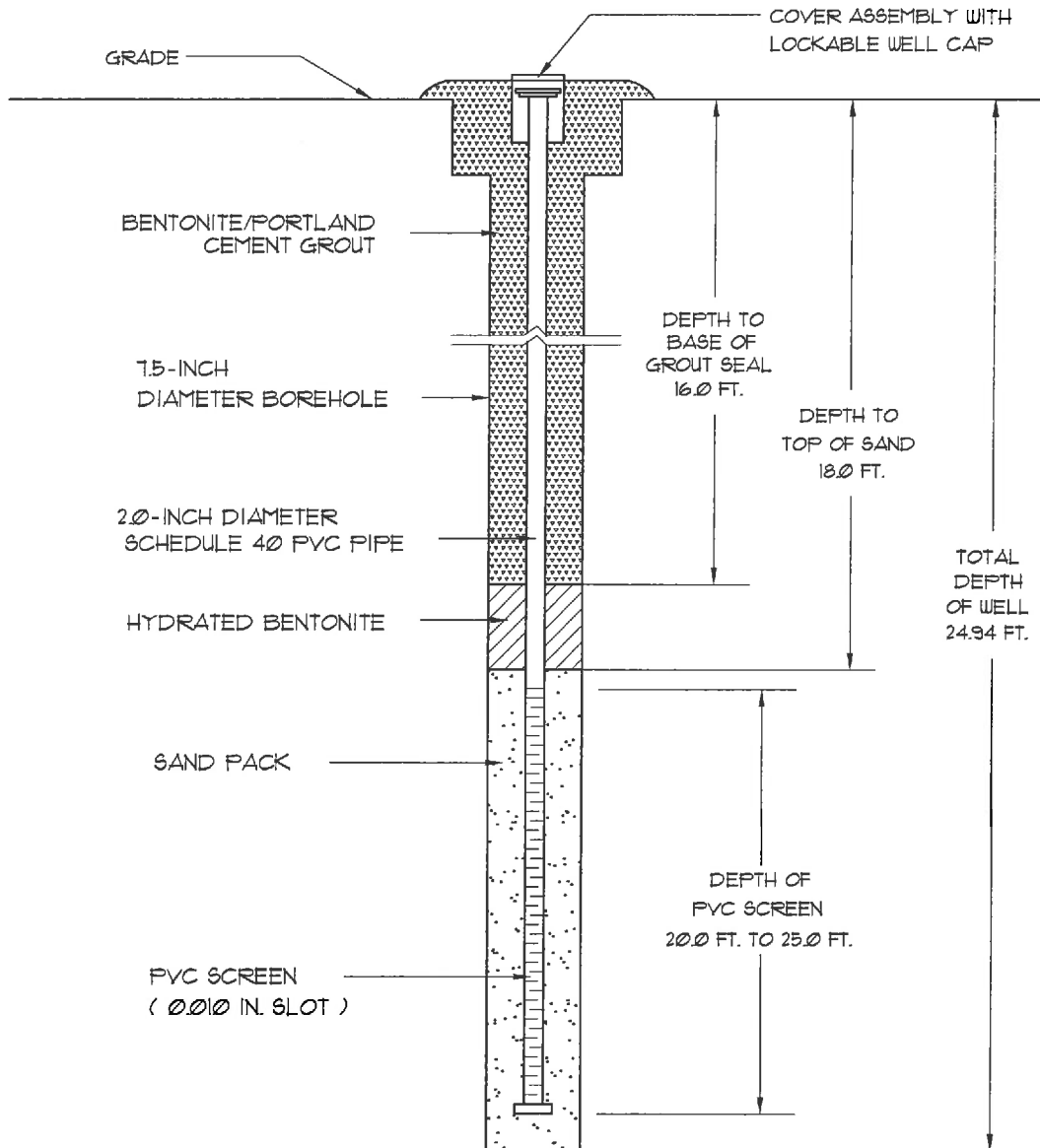
Prepared By:

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Consultants, Inc.

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Lexington, South Carolina 29013
(803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709



Well Number:	03423-DW03
Date Drilled:	2/1/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. I.D.#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot										
				0	5	10	20	40	60	80	100			
	Grass with Topsoil													
	COASTAL PLAIN SEDIMENT: Yellow/Brown, Fine Sandy CLAY													
5		607.3												
	Yellow/Brown, Clayey Fine SAND													
10		1720												
	Yellow/Brown, Fine Sandy CLAY													
15		10,240												
	Yellow/Brown, Clayey Fine SAND													
20		1878												
	Yellow/Brown, Clayey Fine to Medium SAND													
25		1340												
	Boring Terminated at 25.0 Feet Below Ground Surface (BGS). Monitoring Well Installed to 25.0 Feet BGS. Groundwater Measured at 3.35 Feet Below Top of Casing on 2/11/2022.													
30														
35														

TEST BORING RECORD

Jake Huggins
 Florence, South Carolina
 SCDHEC Site ID# 03423
 MECI Project Number 21-7709

Boring Number: 03423-DW04

Date Drilled: 2/8/2022

Drilled By: EDP6, LLC.

Logged By: T. Brown

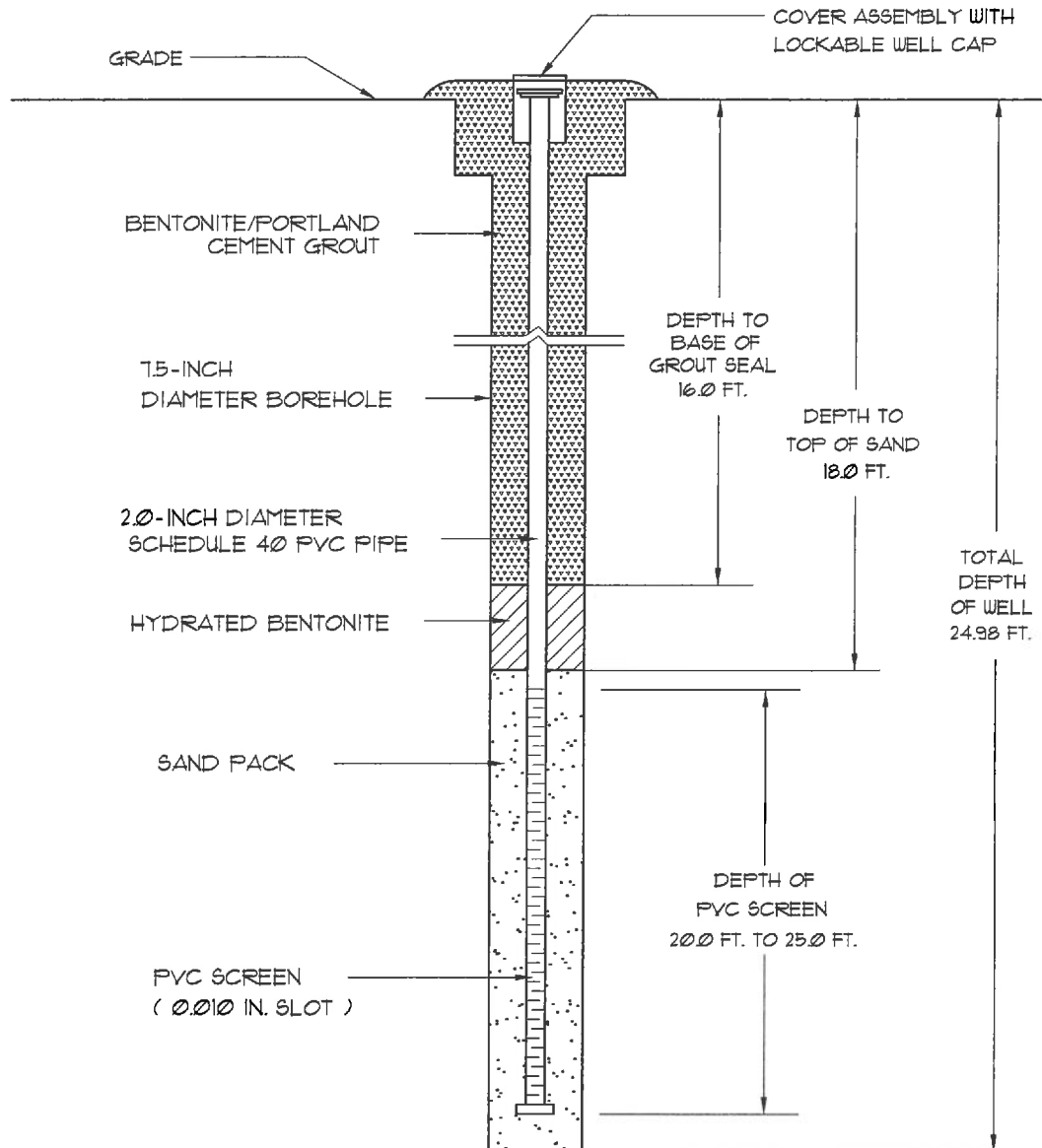
Prepared By:


Midlands
 Environmental
 Consultants, Inc.

231 Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Jake Huggins
Florence, South Carolina
SCDHEC Site ID# 03423
MECI Project Number 21-7709



Well Number:	03423-DW04
Date Drilled:	2/8/2022
Drilled By:	EDPS, LLC.
Driller: J. Pawless	S.C. ID#: D 2100
Logged By:	T. Brown

Prepared By:

Midlands
Environmental
Consultants, Inc.

231 Dooley Road
Lexington, South Carolina 29073
(803) 808-2043 Fax: 808-2048



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: _____ Submersible Pump: X Air Lifting: _____

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:	Conductivity Meter:	Temperature Meter:	Turbidity Meter:
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH-7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH-10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: <u>X</u>	Solid Flight Augers: _____	Direct Push: _____
Air Rotary: _____	Mud Rotary: _____	Sonic: _____

Monitoring Well ID#:	<u>MW-1</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.18</u> ft.	Screen Length (ft):	<u>10</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>13.03</u> ft.	Screen Interval:	<u>3.0</u> ft. to <u>13.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>10.85</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>8.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	13:18	13:21	13:24	13:28	13:32			
pH(s.u)*:	5.64	5.45	5.85	5.29	5.37			
Specific Conductivity (mmhos/cm)*:	86.7	78.8	86.6	77.8	79.0			
Water Temperature (°C)*:	13.8	14.9	15.2	15.1	15.1			
Turbidity (NTU)*:	49.71	162.8	109.1	56.64	9.43			
Physical Characteristics (color/odor):	Light Brown / No Odor	Brown / No Odor	Brown / No Odor	Light Brown / No Odor	Clear / No Odor			
Depth to Water (ft from TOC):	2.18	2.51	30.20	3.96	4.55			
Cumulative Gallons Removed:	0.0	1.0	3.0	5.0	6.0			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 8.0 gallons were removed.

Driller Signature:  Date: 3/1/2022



Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: Jake HugginsSite ID#: 03423Date: 2/11/2022Drilling Company: EDPS, LLC.Driller: Jared PawlessField Personnel: Jared Pawless / T. BrownDriller Certification Number: D2100Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: XAir Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:

Serial no. 15E101481pH=4.0 XpH=7.0 XpH=10.0 X

Conductivity Meter:

Serial no. 15E101481Standard X

Temperature Meter:

Serial no. 14H103098

Turbidity Meter:

Serial No. 201301174NTU 0.0 XNTU 1.0 XNTU10.0 X

Drilling Method

Hollow Stem Augers: XSolid Flight Augers: Direct Push: Air Rotary: Mud Rotary: Sonic: Monitoring Well ID#: MW-2Well Casing Diameter (in) 2Borehole Diameter (in): 7.5Depth to Ground Water (DGW): 1.98 ft.Screen Length (ft): 10Slot Size (in): 0.010Total Well Depth (TWD): 13.16 ft.Screen Interval: 3.0 ft. to 13.0 ft.Length of Water Column (TWD-DGW): 11.18 ft.Type of Drilling Fluid Used: N/ATotal Gallons of Water Removed: 10.00 gals.Drilling Fluids Recovered: N/A

Time:	12:27	12:29	12:32	12:35	12:38	12:40		
pH(s.u)*:	5.35	5.14	5.33	5.35	5.48	5.50		
Specific Conductivity (mmhos/cm)*:	218.6	186.8	159.4	145.2	136.9	137.4		
Water Temperature (°C)*:	13.0	14.5	14.8	15.2	15.5	15.5		
Turbidity (NTU)*:	36.75	89.4	139.6	93.75	42.16	9.73		
Physical Characteristics (color/odor):	Light Brown / No Odor	Brown / No Odor	Tan / No Odor	Tan / No Odor	Light Tan / No Odor	Clear / No Odor		
Depth to Water (ft from TOC):	1.98	2.37	2.86	3.61	4.38	5.11		
Cumulative Gallons Removed:	0.0	2.0	4.0	6.0	8.0	10.0		

*Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 10.0 gallons were removed.

Driller Signature: Jared PawlessDate: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:	Conductivity Meter:	Temperature Meter:	Turbidity Meter:
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: <u>X</u>	Solid Flight Augers: <u> </u>	Direct Push: <u> </u>
Air Rotary: <u> </u>	Mud Rotary: <u> </u>	Sonic: <u> </u>

Monitoring Well ID#:	<u>MW-3</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.08</u> ft.	Screen Length (ft):	<u>10</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>13.34</u> ft.	Screen Interval:	<u>3.0</u> ft. to <u>13.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>11.26</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>10.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	11:50	11:54	11:57	12:01	12:04	12:05	12:06	
pH(s.u)*:	6.12	5.77	5.59	5.59	5.49	5.43	5.42	
Specific Conductivity (mmhos/cm)*:	491	234.7	149.0	118.4	115.8	112.9	108.7	
Water Temperature (°C)*:	14.3	14.7	16.0	16.4	16.6	16.7	16.8	
Turbidity (NTU)*:	73.48	158.9	193.7	132.60	73.65	38.92	9.83	
Physical Characteristics (color/odor):	Light Brown / No Odor	Brown / No Odor	Brown / No Odor	Brown / No Odor	Light Brown / No Odor	Light Brown / No Odor	Clear / No Odor	
Depth to Water (ft from TOC):	2.08	2.67	3.21	3.85	4.34	4.87	5.68	
Cumulative Gallons Removed:	0.0	2.0	4.0	7.0	8.0	9.0	10.00	

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 10.0 gallons were removed.

Driller Signature: 

Date: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: <u>X</u>	Solid Flight Augers: <u> </u>	Direct Push: <u> </u>
Air Rotary: <u> </u>	Mud Rotary: <u> </u>	Sonic: <u> </u>

Monitoring Well ID#:	<u>MW-4</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.49</u> ft.	Screen Length (ft):	<u>10</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>12.60</u> ft.	Screen Interval:	<u>3.0</u> ft. to <u>13.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>10.11</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>10.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	11:27	11:33	11:36	11:39	11:42			
pH(s.u)*:	6.24	6.15	6.11	6.08	6.07			
Specific Conductivity (mmhos/cm)*:	129.6	104.9	81.3	54.7	48.4			
Water Temperature (°C)*:	12.8	13.4	15.4	15.9	16.1			
Turbidity (NTU)*:	47.92	59.0	36.3	14.83	8.31			
Physical Characteristics (color/odor):	Light Brown / No Odor	Light Brown / No Odor	Light Brown / No Odor	Light Brown / No Odor	Clear / No Odor			
Depth to Water (ft from TOC):	2.49	4.28	6.59	8.56	10.32			
Cumulative Gallons Removed:	0.0	2.0	4.0	7.0	10.0			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 10.0 gallons were removed.

Driller Signature: _____

Date: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:
**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH-7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH-10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: <u>X</u>	Solid Flight Augers: <u> </u>	Direct Push: <u> </u>
Air Rotary: <u> </u>	Mud Rotary: <u> </u>	Sonic: <u> </u>

Monitoring Well ID#:	<u>MW-5</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.11</u> ft.	Screen Length (ft):	<u>10</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>12.96</u> ft.	Screen Interval:	<u>3.0</u> ft. to <u>13.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>10.85</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>10.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	12:10	12:12	12:15	12:17	12:19	12:22		
pH(s.u)*:	5.52	5.24	5.28	5.20	5.17	5.14		
Specific Conductivity (mmhos/cm)*:	101.4	86.9	96.1	96.2	97.9	98.1		
Water Temperature (°C)*:	13.7	15.8	17.8	18.6	18.7	19.1		
Turbidity (NTU)*:	52.87	162.4	141.7	69.43	22.14	9.82		
Physical Characteristics (color/odor):	Light Brown / No Odor	Brown / No Odor	Brown / No Odor	Light Brown / No Odor	Light Brown / No Odor	Clear / No Odor		
Depth to Water (ft from TOC):	2.11	3.82	5.11	6.41	7.62	8.34		
Cumulative Gallons Removed:	0.0	2.0	4.0	6.0	8.0	10.0		

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 10.0 gallons were removed.

Driller Signature: _____

Date: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:	Conductivity Meter:	Temperature Meter:	Turbidity Meter:
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: <u>X</u>	Solid Flight Augers: <u> </u>	Direct Push: <u> </u>
Air Rotary: <u> </u>	Mud Rotary: <u> </u>	Sonic: <u> </u>

Monitoring Well ID#:	<u>MW-6</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.47</u> ft.	Screen Length (ft):	<u>10</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>12.81</u> ft.	Screen Interval:	<u>3.0</u> ft. to <u>13.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>10.34</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>15.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	12:54	12:57	13:00	13:04	13:09			
pH(s.u)*:	6.10	5.63	5.60	5.55	5.54			
Specific Conductivity (mmhos/cm)*:	59.4	56.8	52.4	49.2	48.7			
Water Temperature (°C)*:	14.6	15.4	16.4	16.8	16.9			
Turbidity (NTU)*:	20.47	49.2	38.5	16.17	9.12			
Physical Characteristics (color/odor):	Light Brown / No Odor	Light Brown / Slight Odor	Light Brown / Slight Odor	Light Brown / Slight Odor	Clear / Slight Odor			
Depth to Water (ft from TOC):	2.47	4.67	7.04	9.36	9.98			
Cumulative Gallons Removed:	0.0	3.0	6.0	10.0	15.0			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 15.0 gallons were removed.

Driller Signature: _____

Date: 3/1/2022



Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: Jake Huggins Site ID#: 03423 Date: 2/11/2022

Drilling Company: EDPS, LLC. Driller: Jared Pawless

Field Personnel: Jared Pawless / T. Brown Driller Certification Number: D2100

Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH-7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH-10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: Direct Push:
Air Rotary: Mud Rotary: Sonic:

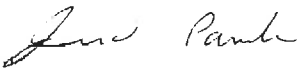
Monitoring Well ID#: <u>MW-7</u>	Well Casing Diameter (in) <u>2</u>	Borehole Diameter (in): <u>7.5</u>
Depth to Ground Water (DGW): <u>2.81</u> ft.	Screen Length (ft): <u>10</u>	Slot Size (in): <u>0.010</u>
Total Well Depth (TWD): <u>12.72</u> ft.	Screen Interval: <u>3.0</u> ft. to <u>13.0</u> ft.	
Length of Water Column (TWD-DGW): <u>9.91</u> ft.	Type of Drilling Fluid Used: <u>N/A</u>	
Total Gallons of Water Removed: <u>8.00</u> gals.	Drilling Fluids Recovered: <u>N/A</u>	

Time:	13:40	13:44	13:48	13:52	13:56			
pH(s.u)*:	5.76	5.62	5.73	5.75	5.33			
Specific Conductivity (mmhos/cm)*:	73.1	67.5	64.6	60.7	65.6			
Water Temperature (°C)*:	14.9	15.9	17.3	17.3	17.4			
Turbidity (NTU)*:	52.99	78.5	62.5	28.33	7.99			
Physical Characteristics (color/odor):	Light Brown / No Odor	Light Brown / Slight Odor	Light Brown / Slight Odor	Light Brown / Slight Odor	Clear / Slight Odor			
Depth to Water (ft from TOC):	2.81	3.45	4.98	6.04	7.71			
Cumulative Gallons Removed:	0.0	2.0	4.0	6.0	8.0			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 8.0 gallons were removed.

Driller Signature: 

Date: 3/1/2022



Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: Jake Huggins Site ID#: 03423 Date: 2/11/2022
 Drilling Company: EDPS, LLC. Driller: Jared Pawless
 Field Personnel: Jared Pawless / T. Brown Driller Certification Number: D2100
 Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:
**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:	Conductivity Meter:	Temperature Meter:	Turbidity Meter:
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH-7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH-10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: Direct Push:
 Air Rotary: Mud Rotary: Sonic:

Monitoring Well ID#: MW-8 Well Casing Diameter (in) 2 Borehole Diameter (in): 7.5
 Depth to Ground Water (DGW): 3.18 ft. Screen Length (ft): 10 Slot Size (in): 0.010
 Total Well Depth (TWD): 13.69 ft. Screen Interval: 3.0 ft. to 13.0 ft.
 Length of Water Column (TWD-DGW): 10.51 ft. Type of Drilling Fluid Used: N/A
 Total Gallons of Water Removed: 10.00 gals. Drilling Fluids Recovered: N/A

Time:	14:13	14:16	14:19	14:22	14:25	14:28		
pH(s.u)*:	6.17	6.25	6.34	6.33	6.29	6.36		
Specific Conductivity (mmhos/cm)*:	196.3	181.7	183.5	167.1	214.7	203.9		
Water Temperature (°C)*:	15.9	16.1	17.2	18.3	17.4	17.9		
Turbidity (NTU)*:	63.97	138.6	156.9	88.63	37.52	9.53		
Physical Characteristics (color/odor):	Brown / Odor	Brown / Odor	Brown / Odor	Brown / Odor	Light Brown / Odor	Clear / Odor		
Depth to Water (ft from TOC):	3.18	4.32	5.67	6.53	7.21	8.08		
Cumulative Gallons Removed:	0.0	2.0	4.0	6.0	8.0	10.0		

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 10.0 gallons were removed.

Driller Signature: *Jared Pawless* Date: 3/1/2022



Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: Jake HugginsSite ID#: 03423Date: 2/11/2022Drilling Company: EDPS, LLC.Driller: Jared PawlessField Personnel: Jared Pawless / T. BrownDriller Certification Number: D2100Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: XAir Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:

Serial no. 15E101481pH=4.0 XpH=7.0 XpH=10.0 X

Conductivity Meter:

Serial no. 15E101481Standard X

Temperature Meter:

Serial no. 14H103098

Turbidity Meter:

Serial No. 201301174NTU 0.0 XNTU 1.0 XNTU10.0 X

Drilling Method

Hollow Stem Augers: XSolid Flight Augers: Direct Push: Air Rotary: Mud Rotary: Sonic: Monitoring Well ID#: MW-9Well Casing Diameter (in) 2Borehole Diameter (in): 7.5Depth to Ground Water (DGW): 3.30 ft.Screen Length (ft): 10Slot Size (in): 0.010Total Well Depth (TWD): 13.20 ft.Screen Interval: 3.0 ft. to 13.0 ft.Length of Water Column (TWD-DGW): 9.90 ft.Type of Drilling Fluid Used: N/ATotal Gallons of Water Removed: 8.00 gals.Drilling Fluids Recovered: N/A

Time:	14:41	14:44	14:48	14:51	14:55			
pH(s.u)*:	6.19	6.08	5.84	5.81	5.76			
Specific Conductivity (mmhos/cm)*:	182.0	69.2	64.3	61.8	59.8			
Water Temperature (°C)*:	15.1	15.1	16.0	16.4	16.6			
Turbidity (NTU)*:	94.89	192.3	131.3	62.41	8.97			
Physical Characteristics (color/odor):	Brown / No Odor	Brown / No Odor	Brown / No Odor	Light Brown / No Odor	Clear / No Odor			
Depth to Water (ft from TOC):	3.30	4.94	5.24	6.31	7.24			
Cumulative Gallons Removed:	0.0	2.0	4.0	6.0	8.0			

*Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 8.0 gallons were removed.

Driller Signature: *Jared Pawless*Date: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: Direct Push:
Air Rotary: Mud Rotary: Sonic:

Monitoring Well ID#:	<u>MW-10</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.55</u> ft.	Screen Length (ft):	<u>10</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>13.30</u> ft.	Screen Interval:	<u>3.0</u> ft. to <u>13.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>10.75</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>8.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	14:42	14:45	14:48	14:51	14:54			
pH(s.u)*:	6.38	6.54	6.42	6.38	6.31			
Specific Conductivity (mmhos/cm)*:	219.2	289.4	247.2	211.6	196.2			
Water Temperature (°C)*:	15.2	15.9	16.4	16.7	16.7			
Turbidity (NTU)*:	99.11	114.6	132.8	71.40	9.27			
Physical Characteristics (color/odor):	Light Brown / Odor	Brown / Odor	Brown / Odor	Light Brown / Odor	Clear / Odor			
Depth to Water (ft from TOC):	2.55	2.74	2.91	3.37	3.50			
Cumulative Gallons Removed:	0.0	2.0	4.0	6.0	8.0			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 8.0 gallons were removed.

Driller Signature: _____

Date: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name: Jake Huggins Site ID#: 03423 Date: 2/11/2022

Drilling Company: EDPS, LLC. Driller: Jared Pawless

Field Personnel: Jared Pawless / T. Brown Driller Certification Number: D2100

Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: Direct Push:
Air Rotary: Mud Rotary: Sonic:

Monitoring Well ID#: <u>DW-1</u>	Well Casing Diameter (in) <u>2</u>	Borehole Diameter (in): <u>7.5</u>
Depth to Ground Water (DGW): <u>2.02</u> ft.	Screen Length (ft): <u>5</u>	Slot Size (in): <u>0.010</u>
Total Well Depth (TWD): <u>25.25</u> ft.	Screen Interval: <u>20.0</u> ft. to <u>25.0</u> ft.	
Length of Water Column (TWD-DGW): <u>23.23</u> ft.	Type of Drilling Fluid Used: <u>N/A</u>	
Total Gallons of Water Removed: <u>16.00</u> gals.	Drilling Fluids Recovered: <u>N/A</u>	

Time:	13:17	13:22	13:25	13:31	13:35			
pH(s.u)*:	5.51	5.45	5.22	5.11	5.06			
Specific Conductivity (mmhos/cm)*:	116.5	108.9	61.2	100.1	112.4			
Water Temperature (°C)*:	18.6	19.8	19.8	19.7	19.9			
Turbidity (NTU)*:	36.14	182.3	141.6	74.86	8.92			
Physical Characteristics (color/odor):	Light Brown / No Odor	Brown / No Odor	Brown / No Odor	Light Brown / No Odor	Clear / No Odor			
Depth to Water (ft from TOC):	2.02	2.06	2.14	2.18	2.20			
Cumulative Gallons Removed:	0.0	4.0	8.0	12.0	16.0			

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 16.0 gallons were removed.

Driller Signature: _____

Date: 3/1/2022



Well Development Data Verification Form
Underground Storage Tank Management Division

Facility Name:	<u>Jake Huggins</u>	Site ID#:	<u>03423</u>	Date:	<u>2/11/2022</u>
Drilling Company:	<u>EDPS, LLC.</u>	Driller:	<u>Jared Pawless</u>		
Field Personnel:	<u>Jared Pawless / T. Brown</u>	Driller Certification Number:	<u>D2100</u>		
Weather Conditions:	<u>Sunny</u>	Temp. (°F):	<u>71</u>		

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: <u>X</u>	Solid Flight Augers: <u> </u>	Direct Push: <u> </u>
Air Rotary: <u> </u>	Mud Rotary: <u> </u>	Sonic: <u> </u>

Monitoring Well ID#:	<u>DW-2</u>	Well Casing Diameter (in)	<u>2</u>	Borehole Diameter (in):	<u>7.5</u>
Depth to Ground Water (DGW):	<u>2.05</u> ft.	Screen Length (ft):	<u>5</u>	Slot Size (in):	<u>0.010</u>
Total Well Depth (TWD):	<u>24.84</u> ft.	Screen Interval:	<u>20.0</u> ft. to <u>25.0</u> ft.		
Length of Water Column (TWD-DGW):	<u>22.79</u> ft.	Type of Drilling Fluid Used:	<u>N/A</u>		
Total Gallons of Water Removed:	<u>14.00</u> gals.	Drilling Fluids Recovered:	<u>N/A</u>		

Time:	12:28	12:33	12:38	12:41	12:44	12:48		
pH(s.u)*:	5.76	5.38	5.36	5.46	5.69	5.73		
Specific Conductivity (mmhos/cm)*:	189.7	123.3	129.4	128.3	126.8	134.7		
Water Temperature (°C)*:	13.7	16.6	18.9	19.0	19.1	19.4		
Turbidity (NTU)*:	47.83	96.37	153.4	87.63	36.41	8.76		
Physical Characteristics (color/odor):	Light Brown / No Odor	Brown / No Odor	Brown / No Odor	Light Brown / No Odor	Light Brown / No Odor	Clear / No Odor		
Depth to Water (ft from TOC):	2.05	2.25	2.37	2.46	2.58	2.63		
Cumulative Gallons Removed:	0.0	4.0	8.0	10.0	12.0	14.0		

*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 14.0 gallons were removed.

Driller Signature: _____

Date: 3/1/2022



Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: Jake Huggins Site ID#: 03423 Date: 2/11/2022

Drilling Company: EDPS, LLC. Driller: Jared Pawless

Field Personnel: Jared Pawless / T. Brown Driller Certification Number: D2100

Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

pH Meter:	Conductivity Meter:	Temperature Meter:	Turbidity Meter:
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: Direct Push:
Air Rotary: Mud Rotary: Sonic:

Monitoring Well ID#: <u>DW-3</u>	Well Casing Diameter (in) <u>2</u>	Borehole Diameter (in): <u>7.5</u>
Depth to Ground Water (DGW): <u>2.48</u> ft.	Screen Length (ft): <u>5</u>	Slot Size (in): <u>0.010</u>
Total Well Depth (TWD): <u>24.94</u> ft.	Screen Interval: <u>20.0</u> ft. to <u>25.0</u> ft.	
Length of Water Column (TWD-DGW): <u>22.46</u> ft.	Type of Drilling Fluid Used: <u>N/A</u>	
Total Gallons of Water Removed: <u>16.00</u> gals.	Drilling Fluids Recovered: <u>N/A</u>	

Time:	13:40	13:48	13:55	14:01	14:06			
pH(s.u)*:	5.91	5.89	6.41	6.44	6.39			
Specific Conductivity (mmhos/cm)*:	93.7	88.8	103.7	117.6	115.3			
Water Temperature (°C)*:	19.9	20.7	21.0	21.2	21.1			
Turbidity (NTU)*:	178.1	301.6	224.3	64.87	9.20			
Physical Characteristics (color/odor):	Brown / Slight Odor	Brown / Slight Odor	Brown / Slight Odor	Light Brown / Slight Odor	Clear / Slight Odor			
Depth to Water (ft from TOC):	2.48	4.77	7.01	10.80	12.24			
Cumulative Gallons Removed:	0.0	4.0	8.0	12.0	16.0			

*Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 16.0 gallons were removed.

Driller Signature: Jared Pawless

Date: 3/1/2022



Well Development Data Verification Form

Underground Storage Tank Management Division

Facility Name: Jake Huggins Site ID#: 03423 Date: 2/11/2022

Drilling Company: EDPS, LLC. Driller: Jared Pawless

Field Personnel: Jared Pawless / T. Brown Driller Certification Number: D2100

Weather Conditions: Sunny Temp. (°F): 71

Well Development Method

Surge Block: Submersible Pump: X Air Lifting:

**Bailing can be combined with any of the above methods, but not utilized alone for development

Quality Assurance

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

Drilling Method

Hollow Stem Augers: X Solid Flight Augers: Direct Push:
Air Rotary: Mud Rotary: Sonic:

Monitoring Well ID#: <u>DW-4</u>	Well Casing Diameter (in) <u>2</u>	Borehole Diameter (in): <u>7.5</u>
Depth to Ground Water (DGW): <u>2.35</u> ft.	Screen Length (ft): <u>5</u>	Slot Size (in): <u>0.010</u>
Total Well Depth (TWD): <u>24.98</u> ft.	Screen Interval: <u>20.0</u> ft. to <u>25.0</u> ft.	
Length of Water Column (TWD-DGW): <u>22.63</u> ft.	Type of Drilling Fluid Used: <u>N/A</u>	
Total Gallons of Water Removed: <u>15.00</u> gals.	Drilling Fluids Recovered: <u>N/A</u>	

Time:	14:15	14:20	14:25	14:29	14:33	14:37		
pH(s.u)*:	5.74	6.00	5.73	5.91	5.87	5.76		
Specific Conductivity (mmhos/cm)*:	107.6	109.8	104.1	110.0	123.7	116.8		
Water Temperature (°C)*:	17.3	19.5	20.6	20.8	20.9	21.0		
Turbidity (NTU)*:	89.36	157.9	185.2	97.35	51.76	9.83		
Physical Characteristics (color/odor):	Grey / Odor	Orange / Odor	Orange / Odor	Orange / Odor	Light Orange / Odor	Clear / Odor		
Depth to Water (ft from TOC):	3.35	3.37	3.38	3.39	3.41	3.42		
Cumulative Gallons Removed:	0.0	4.0	8.0	12.0	14.0	15.0		

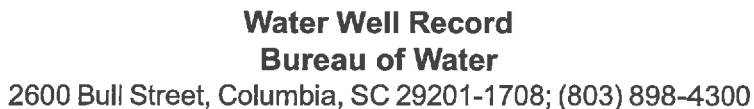
*Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are $\pm 10\%$

Detailed Description of Well Development Process:

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 15.0 gallons were removed.

Driller Signature: Jared Pawless

Date: 3/1/2022

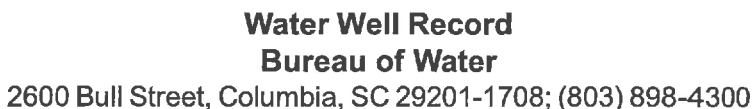


COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

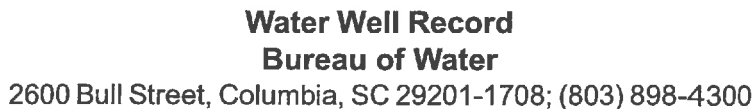


Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

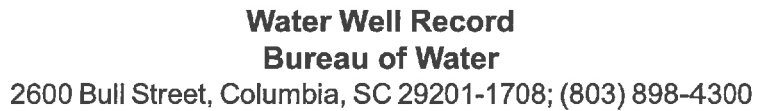
1. WELL OWNER INFORMATION: Name: SCDHEC UST Division (last) (first) Address: 2600 Bull Street City: Columbia State: SC Zip: 29201-1708 Telephone: Work: Home:			7. PERMIT NUMBER: UMW-28719																																
2. LOCATION OF WELL: COUNTY: Florence Name: Jake Huggins Street Address: 4925 Pamplico Highway City: Florence Zip: 29505-0000 Latitude: 34.0962788 Longitude: -79.6975952			8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☒ Monitor Well ☐ Replacement																																
			9. WELL DEPTH (completed) Date Started: 2/7/22 13.0 ft. Date Completed: 2/7/22																																
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03423 MW-3			10. CASING: ☒ Threaded ☐ Welded Diam.: 2 Inch Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other 2.0 in. to 3.0 ft. depth in. to ft. depth																																
			Height: Above /Below Surface _____ ft. Weight _____ lb./ft. Drive Shoe? ☐ Yes ☐ No																																
4. ABANDONMENT: ☐ Yes ☒ No Grouted Depth: from _____ ft. to _____ ft.			11. SCREEN: Type: Schedule 40 PVC Diam.: 2 Inch Slot/Gauge: 0.010 Length: 10.0 Set Between: 3.0 ft. and 13.0 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET Sieve Analysis ☐ Yes (please enclose) ☐ No																																
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			SEE GEOLOGIST LOG																																
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 13.0 ft. to 1.0 ft. Effective size 1.43 Uniformity Coefficient 1.30			16. WELL GROUTED? ☒ Yes ☐ No ☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____ Depth: From 0.5 ft. to 0.0 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: Jared Pawless CERT. NO.: 2100 Address: (Print) Level: A ☒ C ☐ D (circle one) 17538 Greenhill Road Charlotte, NC 28278 Telephone No.: 704-607-7529 Fax No.: 803-548-2233			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: _____ Date: 2/21/2022 Well Driller If D Level Driller, provide supervising driller's name: Tommy Bolyard																																
5. REMARKS: MW-3 *Bentonite seal from 1.0' to 0.5'																																			
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☒ Other -Auger																																			



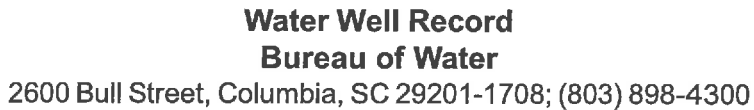
COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



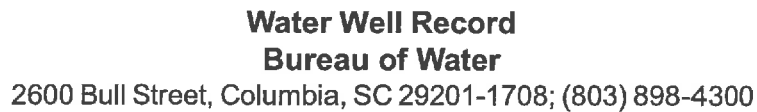
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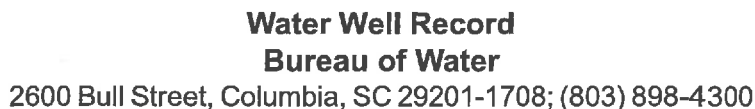
Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name: SCDHEC UST Division (last) (first) Address: 2600 Bull Street City: Columbia State: SC Zip: 29201-1708 Telephone: Work: Home:			7. PERMIT NUMBER: UMW-28719																																
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			9. WELL DEPTH (completed) Date Started: 2/8/22 13.0 ft. Date Completed: 2/8/22																																
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03423 MW-10			10. CASING: ☒ Threaded ☐ Welded Diam.: 2 Inch Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other 2.0 in. to 3.0 ft. depth _____ in. to _____ ft. depth																																
			Height: Above /Below _____ ft. Surface _____ lb./ft. Weight _____ lb./ft. Drive Shoe? ☐ Yes ☐ No																																
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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 13.0 ft. to 1.0 ft. Effective size 1.43 Uniformity Coefficient 1.30			16. WELL GROUDED? ☒ Yes ☐ No ☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____ Depth: From 0.5 ft. to 0.0 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																																
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5. REMARKS: MW-10 *Bentonite seal from 1.0' to 0.5'																																			
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☒ Other -Auger																																			



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			9. WELL DEPTH (completed) Date Started: 2/7/22 25.0 ft. Date Completed: 2/8/22																																
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03423 DW-1			10. CASING: ☒ Threaded ☐ Welded Diam.: 2 Inch Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other 2.0 in. to 20.0 ft. depth 6.0 in. to 20.0 ft. depth Height: Above /Below Surface _____ ft. Weight _____ lb./ft. Drive Shoe? ☐ Yes ☐ No																																
			11. SCREEN: Type: Schedule 40 PVC Diam.: 2 Inch Slot/Gauge: 0.010 Length: 5.0 Set Between: 20.0 ft. and 25.0 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET Sieve Analysis ☐ Yes (please enclose) ☐ No																																
4. ABANDONMENT: ☐ Yes ☒ No Grouted Depth: from _____ ft. to _____ ft.			12. STATIC WATER LEVEL 2.02 ft. below land surface after 24 hours																																
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			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																														
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14. WATER QUALITY Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No Please enclose lab results.																																			
15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No Installed from 25.0 ft. to 18.0 ft. Effective size 1.43 Uniformity Coefficient 1.30																																			
16. WELL GROUTED? ☒ Yes ☐ No ☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____ Depth: From 16.0 ft. to 0.0 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																																			
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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: _____ Date: 2/21/2022 Well Driller If D Level Driller, provide supervising driller's name: Tommy Bolyard																																			
5. REMARKS: DW-1 *Bentonite seal from 18.0' to 16.0'																																			
6. TYPE: ☒ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other -Auger																																			



COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



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			9. WELL DEPTH (completed) Date Started: 2/7/22 25.0 ft. Date Completed: 2/7/22																																
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 03423 DW-3			10. CASING: ☒ Threaded ☐ Welded Diam.: 2 Inch Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other 2.0 in. to 20.0 ft. depth in. to ft. depth																																
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15. ARTIFICIAL FILTER (filter pack) ☒ Yes ☐ No Installed from 25.0 ft. to 18.0 ft. Effective size 1.43 Uniformity Coefficient 1.30			16. WELL GROUTED? ☒ Yes ☐ No ☐ Neat Cement ☐ Bentonite ☒ Bentonite/Cement ☐ Other _____ Depth: From 16.0 ft. to 0.0 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: Jared Pawless CERT. NO.: 2100 Address: (Print) Level: A ☒ B ☐ C ☐ D (circle one) 17538 Greenhill Road Charlotte, NC 28278 Telephone No.: 704-607-7529 Fax No.: 803-548-2233			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: _____ Date: 2/21/2022 Well Driller If D Level Driller, provide supervising driller's name: Tommy Bolyard																																
5. REMARKS: DW-3 *Bentonite seal from 18.0' to 16.0'																																			
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☒ Other -Auger																																			

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS



Summary of Slug Test
Underground Storage Tank Management Division

Site Data

SITE ID #: 03423 COUNTY: Florence
FACILITY NAME: Jake Huggins Date Performed: 2/14/2022

SLUG DATA

See Appendix F Table 3 Figure for a list of all data measurements.
(water level logs, etc.)(Complete as appropriate).

Water Level Recovery Data was measured by Level Troll 500
(Hermit Data Logger, Manually with Water Level Indicator, etc.)(List Method)

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number
Static Water Level (feet)
Initial Rise/Drawdown in well (+/-feet)
Radius of well casing (feet)
Effective Radius of Well (feet)
Static Saturated Aquifer Thickness (feet)
Length of Well Screen (feet)

03423-MW02	03423-MW07		
2.64	2.91		
0.981	0.918		
0.083	0.083		
0.33	0.33		
10.92	9.91		
10	10		

Calculations

See Appendix F Table Figure for calculations

The method for aquifer calculations was Bouwer-Rice

The aquifer is confined semi-confined X water table (Check as Appropriate).

A hydraulic gradient of 1.18E-02 ft./ft. ("Shallow")

Calculated values by well were as follows:

Slug Test Conducted in Well(s) number
Thickness of Aquifer (feet)
Hydraulic Conductivity (cm/sec)
Hydraulic Conductivity (ft/day)
Hydraulic Conductivity (feet/year)
Effective Porosity (%)
Soil Type (i.e. silty sand, clay, etc.)
Seepage Velocity (feet/day)
Seepage Velocity (feet/year)

03423-MW02	03423-MW07	Mathematical Mean
10.92	9.91	N/A
2.21E-03	1.00E-03	1.61E-03
6.26E+00	2.84E+00	4.55E+00
2.28E+03	1.04E+03	1.66E+03
20.00%	20.00%	20.00%
SAND	SAND	N/A
3.69E-01	1.68E-01	2.68E-01
134.73	61.23	97.98



Summary of Slug Test Underground Storage Tank Management Division

Site Data

SITE ID #: 03423 COUNTY: Florence
 FACILITY NAME: Jake Huggins Date Performed: 2/14/2022

SLUG DATA

See Appendix F Table 3 Figure for a list of all data measurements.
 (water level logs, etc.)(Complete as appropriate).

Water Level Recovery Data was measured by Level Troll 500
 (Hermit Data Logger, Manually with Water Level Indicator, etc.)(List Method)

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	03423-DW02	03423-DW03
Static Water Level (feet)	2.51	3.86
Initial Rise/Drawdown in well (+/-feet)	1.961	2.290
Radius of well casing (feet)	0.083	0.083
Effective Radius of Well (feet)	0.33	0.33
Static Saturated Aquifer Thickness (feet)	25.00	25.00
Length of Well Screen (feet)	5	5

Calculations

See Appendix F Table Figure for calculations

The method for aquifer calculations was Bouwer-Rice

The aquifer is confined X unconfined water table (Check as Appropriate).

A hydraulic gradient of 1.03E-02 ft./ft. ("Deep")

Calculated values by well were as follows:

Slug Test Conducted in Well(s) number	03423-DW02	03423-DW03	Mathematical Mean
Thickness of Aquifer (feet)	25.00	25.00	N/A
Hydraulic Conductivity (cm/sec)	8.63E-04	1.56E-04	5.09E-04
Hydraulic Conductivity (ft/day)	2.45E+00	4.42E-01	1.44E+00
Hydraulic Conductivity (feet/year)	8.93E+02	1.61E+02	5.27E+02
Effective Porosity (%)	20.00%	20.00%	20.00%
Soil Type (i.e. silty sand, clay, etc.)	SAND	SAND	N/A
Seepage Velocity (feet/day)	1.26E-01	2.27E-02	7.43E-02
Seepage Velocity (feet/year)	45.97	8.30	27.14

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