

September 04, 2018

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

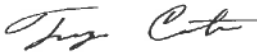
RE: Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Trey Carter
treycarter@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92397424001	MW-4R	Water	08/27/18 11:00	08/28/18 06:44
92397424002	MW-5RR	Water	08/27/18 10:12	08/28/18 06:44
92397424003	MW-9	Water	08/27/18 10:06	08/28/18 06:44
92397424004	MW-10	Water	08/27/18 12:42	08/28/18 06:44
92397424005	MW-11	Water	08/27/18 13:24	08/28/18 06:44
92397424006	MW-14	Water	08/27/18 10:34	08/28/18 06:44
92397424007	MW-15	Water	08/27/18 11:55	08/28/18 06:44
92397424008	MW-16	Water	08/27/18 11:28	08/28/18 06:44
92397424009	MW-17	Water	08/27/18 11:35	08/28/18 06:44
92397424010	MW-18	Water	08/27/18 12:35	08/28/18 06:44
92397424011	MW-19	Water	08/27/18 10:27	08/28/18 06:44
92397424012	MW-20	Water	08/27/18 11:20	08/28/18 06:44
92397424013	PW-1R	Water	08/27/18 11:02	08/28/18 06:44
92397424014	RW-2	Water	08/27/18 11:07	08/28/18 06:44
92397424015	RW-4	Water	08/27/18 12:09	08/28/18 06:44
92397424016	DUP	Water	08/27/18 12:25	08/28/18 06:44
92397424017	FB	Water	08/27/18 12:50	08/28/18 06:44
92397424018	TB	Water	08/27/18 12:51	08/28/18 06:44

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SAMPLE ANALYTE COUNT

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92397424001	MW-4R	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424002	MW-5RR	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424003	MW-9	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424004	MW-10	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424005	MW-11	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424006	MW-14	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424007	MW-15	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424008	MW-16	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424009	MW-17	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424010	MW-18	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424011	MW-19	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424012	MW-20	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424013	PW-1R	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424014	RW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424015	RW-4	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424016	DUP	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424017	FB	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397424018	TB	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-4R		Lab ID: 92397424001		Collected: 08/27/18 11:00		Received: 08/28/18 06:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 02:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	123	%	60-140		1	09/02/18 10:36	09/03/18 02:51	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	868	ug/L	250	192	2.5		08/31/18 21:55	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	25.0	8.5	2.5		08/31/18 21:55	994-05-8	
Benzene	373	ug/L	12.5	4.2	2.5		08/31/18 21:55	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	250	80.2	2.5		08/31/18 21:55	624-95-3	
tert-Butyl Alcohol	1610	ug/L	250	144	2.5		08/31/18 21:55	75-65-0	M1
tert-Butyl Formate	ND	ug/L	125	18.2	2.5		08/31/18 21:55	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	12.5	4.5	2.5		08/31/18 21:55	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	4.2	2.5		08/31/18 21:55	108-20-3	
Ethanol	ND	ug/L	500	328	2.5		08/31/18 21:55	64-17-5	
Ethylbenzene	71.5	ug/L	12.5	4.0	2.5		08/31/18 21:55	100-41-4	
Ethyl-tert-butyl ether	16.6J	ug/L	25.0	9.0	2.5		08/31/18 21:55	637-92-3	
Methyl-tert-butyl ether	33.3	ug/L	12.5	4.2	2.5		08/31/18 21:55	1634-04-4	M1
Naphthalene	46.2	ug/L	12.5	5.0	2.5		08/31/18 21:55	91-20-3	
Toluene	10.9J	ug/L	12.5	4.0	2.5		08/31/18 21:55	108-88-3	
Xylene (Total)	561	ug/L	12.5	12.5	2.5		08/31/18 21:55	1330-20-7	MS
m&p-Xylene	374	ug/L	25.0	7.8	2.5		08/31/18 21:55	179601-23-1	M1
o-Xylene	187	ug/L	12.5	4.0	2.5		08/31/18 21:55	95-47-6	M1
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2.5		08/31/18 21:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		2.5		08/31/18 21:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130		2.5		08/31/18 21:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-SRR		Lab ID: 92397424002		Collected: 08/27/18 10:12		Received: 08/28/18 06:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/02/18 10:36	09/03/18 03:09	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	09/02/18 10:36	09/03/18 03:09	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	493	ug/L	100	76.8	1		08/29/18 15:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 15:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 15:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 15:34	624-95-3	
tert-Butyl Alcohol	497	ug/L	100	57.7	1		08/29/18 15:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 15:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 15:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 15:34	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 15:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 15:34	100-41-4	
Ethyl-tert-butyl ether	7.1J	ug/L	10.0	3.6	1		08/29/18 15:34	637-92-3	
Methyl-tert-butyl ether	4.6J	ug/L	5.0	1.7	1		08/29/18 15:34	1634-04-4	
Naphthalene	3.9J	ug/L	5.0	2.0	1		08/29/18 15:34	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 15:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 15:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 15:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 15:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/29/18 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/29/18 15:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/29/18 15:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-9 Lab ID: 92397424003 Collected: 08/27/18 10:06 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 03:27	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	09/02/18 10:36	09/03/18 03:27	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/29/18 15:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 15:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 15:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 15:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/29/18 15:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 15:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 15:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 15:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 15:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 15:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/29/18 15:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/29/18 15:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/29/18 15:52	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 15:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 15:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 15:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 15:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/29/18 15:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/29/18 15:52	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/29/18 15:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-10 Lab ID: 92397424004 Collected: 08/27/18 12:42 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 03:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	09/02/18 10:36	09/03/18 03:45	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/29/18 16:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 16:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 16:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 16:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/29/18 16:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 16:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 16:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 16:10	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 16:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 16:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/29/18 16:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/29/18 16:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/29/18 16:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 16:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 16:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 16:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 16:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/29/18 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/29/18 16:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/29/18 16:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-11 Lab ID: 92397424005 Collected: 08/27/18 13:24 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 04:20	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	09/02/18 10:36	09/03/18 04:20	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 03:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 03:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 03:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 03:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 03:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 03:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 03:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 03:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 03:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 03:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 03:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 03:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 03:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 03:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 03:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 03:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 03:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/30/18 03:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		08/30/18 03:08	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/30/18 03:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-14 Lab ID: 92397424006 Collected: 08/27/18 10:34 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 04:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	09/02/18 10:36	09/03/18 04:38	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 03:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 03:26	994-05-8	
Benzene	5.2	ug/L	5.0	1.7	1		08/30/18 03:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 03:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 03:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 03:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 03:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 03:26	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 03:26	64-17-5	
Ethylbenzene	5.4	ug/L	5.0	1.6	1		08/30/18 03:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 03:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 03:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 03:26	91-20-3	
Toluene	3.9J	ug/L	5.0	1.6	1		08/30/18 03:26	108-88-3	
Xylene (Total)	11.3	ug/L	5.0	5.0	1		08/30/18 03:26	1330-20-7	
m&p-Xylene	11.3	ug/L	10.0	3.1	1		08/30/18 03:26	179601-23-1	
o-Xylene	2.5J	ug/L	5.0	1.6	1		08/30/18 03:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/30/18 03:26	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/30/18 03:26	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/30/18 03:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-15 Lab ID: 92397424007 Collected: 08/27/18 11:55 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 04:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	09/02/18 10:36	09/03/18 04:56	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/29/18 16:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 16:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 16:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 16:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/29/18 16:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 16:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 16:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 16:28	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 16:28	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 16:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/29/18 16:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/29/18 16:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/29/18 16:28	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 16:28	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 16:28	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 16:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 16:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/29/18 16:28	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/29/18 16:28	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/29/18 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-16 Lab ID: 92397424008 Collected: 08/27/18 11:28 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 05:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	09/02/18 10:36	09/03/18 05:14	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/29/18 16:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 16:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 16:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 16:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/29/18 16:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 16:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 16:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 16:46	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 16:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 16:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/29/18 16:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/29/18 16:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/29/18 16:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 16:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 16:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 16:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 16:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/29/18 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/29/18 16:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/29/18 16:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Sample: MW-17 Lab ID: 92397424009 Collected: 08/27/18 11:35 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 05:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	09/02/18 10:36	09/03/18 05:32	301-79-56	
8260 MSV		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 03:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 03:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 03:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 03:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 03:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 03:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 03:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 03:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 03:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 03:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 03:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 03:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 03:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 03:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 03:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 03:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 03:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/30/18 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/30/18 03:43	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		08/30/18 03:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: MW-18 Lab ID: 92397424010 Collected: 08/27/18 12:35 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:36	09/03/18 05:50	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	09/02/18 10:36	09/03/18 05:50	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 01:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 01:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 01:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 01:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 01:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 01:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 01:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 01:57	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 01:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 01:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 01:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 01:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 01:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 01:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 01:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 01:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 01:57	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/30/18 01:57	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		08/30/18 01:57	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/30/18 01:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: MW-19 Lab ID: 92397424011 Collected: 08/27/18 10:27 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/02/18 10:36	09/03/18 06:08	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	09/02/18 10:36	09/03/18 06:08	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 02:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 02:15	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 02:15	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 02:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 02:15	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 02:15	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 02:15	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 02:15	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 02:15	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 02:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 02:15	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 02:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 02:15	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 02:15	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 02:15	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 02:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 02:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/30/18 02:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/30/18 02:15	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/30/18 02:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: MW-20 Lab ID: 92397424012 Collected: 08/27/18 11:20 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/02/18 10:36	09/03/18 06:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	09/02/18 10:36	09/03/18 06:26	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 02:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 02:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 02:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 02:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 02:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 02:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 02:32	107-06-2	
Diisopropyl ether	21.9	ug/L	5.0	1.7	1		08/30/18 02:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 02:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 02:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 02:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 02:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 02:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 02:32	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 02:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 02:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 02:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		08/30/18 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/30/18 02:32	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/30/18 02:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: PW-1R Lab ID: 92397424013 Collected: 08/27/18 11:02 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:37	09/03/18 07:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	09/02/18 10:37	09/03/18 07:56	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 02:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 02:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 02:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 02:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 02:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 02:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 02:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 02:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 02:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 02:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 02:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 02:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 02:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 02:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 02:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 02:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 02:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/30/18 02:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		08/30/18 02:50	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/30/18 02:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: RW-2		Lab ID: 92397424014		Collected: 08/27/18 11:07		Received: 08/28/18 06:44		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/02/18 10:37	09/03/18 08:14	106-93-4		
Surrogates										
1-Chloro-2-bromopropane (S)	101	%	60-140		1	09/02/18 10:37	09/03/18 08:14	301-79-56		
8260 MSV		Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 04:01	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 04:01	994-05-8		
Benzene	25.2	ug/L	5.0	1.7	1		08/30/18 04:01	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 04:01	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 04:01	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 04:01	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 04:01	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 04:01	108-20-3		
Ethanol	ND	ug/L	200	131	1		08/30/18 04:01	64-17-5		
Ethylbenzene	7.3	ug/L	5.0	1.6	1		08/30/18 04:01	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 04:01	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 04:01	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 04:01	91-20-3		
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 04:01	108-88-3		
Xylene (Total)	10.3	ug/L	5.0	5.0	1		08/30/18 04:01	1330-20-7		
m&p-Xylene	10.3	ug/L	10.0	3.1	1		08/30/18 04:01	179601-23-1		
o-Xylene	3.0J	ug/L	5.0	1.6	1		08/30/18 04:01	95-47-6		
Surrogates										
4-Bromofluorobenzene (S)	100	%	70-130		1		08/30/18 04:01	460-00-4		
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/30/18 04:01	17060-07-0		
Toluene-d8 (S)	103	%	70-130		1		08/30/18 04:01	2037-26-5		

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: RW-4 Lab ID: 92397424015 Collected: 08/27/18 12:09 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.20	ug/L	0.019	0.019	1	09/02/18 10:37	09/03/18 08:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	09/02/18 10:37	09/03/18 08:32	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	5530	ug/L	5000	3840	50		08/31/18 10:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		08/31/18 10:27	994-05-8	
Benzene	7550	ug/L	250	85.0	50		08/31/18 10:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		08/31/18 10:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		08/31/18 10:27	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		08/31/18 10:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	90.0	50		08/31/18 10:27	107-06-2	
Diisopropyl ether	1910	ug/L	250	85.0	50		08/31/18 10:27	108-20-3	
Ethanol	ND	ug/L	10000	6550	50		08/31/18 10:27	64-17-5	
Ethylbenzene	251	ug/L	250	80.0	50		08/31/18 10:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		08/31/18 10:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	85.0	50		08/31/18 10:27	1634-04-4	
Naphthalene	1160	ug/L	250	100	50		08/31/18 10:27	91-20-3	
Toluene	5430	ug/L	250	80.0	50		08/31/18 10:27	108-88-3	M1
Xylene (Total)	5960	ug/L	250	250	50		08/31/18 10:27	1330-20-7	
m&p-Xylene	3230	ug/L	500	155	50		08/31/18 10:27	179601-23-1	
o-Xylene	2720	ug/L	250	80.0	50		08/31/18 10:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		50		08/31/18 10:27	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		50		08/31/18 10:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130		50		08/31/18 10:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: DUP Lab ID: 92397424016 Collected: 08/27/18 12:25 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:37	09/03/18 09:25	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	09/02/18 10:37	09/03/18 09:25	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/30/18 04:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/30/18 04:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/30/18 04:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/30/18 04:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/30/18 04:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/30/18 04:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/30/18 04:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/30/18 04:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 04:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/30/18 04:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/30/18 04:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/30/18 04:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/30/18 04:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/30/18 04:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/30/18 04:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/30/18 04:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/30/18 04:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		08/30/18 04:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/30/18 04:19	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/30/18 04:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: FB Lab ID: 92397424017 Collected: 08/27/18 12:50 Received: 08/28/18 06:44 Matrix: Water									
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/02/18 10:37	09/03/18 09:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	09/02/18 10:37	09/03/18 09:43	301-79-56	
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/29/18 13:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 13:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 13:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 13:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/29/18 13:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 13:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 13:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 13:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 13:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 13:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/29/18 13:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/29/18 13:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/29/18 13:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 13:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 13:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 13:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 13:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/29/18 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/29/18 13:30	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/29/18 13:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

Sample: TB Lab ID: 92397424018 Collected: 08/27/18 12:51 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		08/29/18 13:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		08/29/18 13:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/29/18 13:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		08/29/18 13:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		08/29/18 13:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		08/29/18 13:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		08/29/18 13:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		08/29/18 13:48	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/29/18 13:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		08/29/18 13:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		08/29/18 13:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		08/29/18 13:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		08/29/18 13:48	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		08/29/18 13:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/29/18 13:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		08/29/18 13:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		08/29/18 13:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/29/18 13:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/29/18 13:48	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		08/29/18 13:48	2037-26-5	

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

QC Batch: 427696 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92397424002, 92397424003, 92397424004, 92397424007, 92397424008, 92397424017, 92397424018

METHOD BLANK: 2362317 Matrix: Water
Associated Lab Samples: 92397424002, 92397424003, 92397424004, 92397424007, 92397424008, 92397424017, 92397424018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	08/29/18 12:54	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	08/29/18 12:54	
Benzene	ug/L	ND	5.0	1.7	08/29/18 12:54	
Diisopropyl ether	ug/L	ND	5.0	1.7	08/29/18 12:54	
Ethanol	ug/L	ND	200	131	08/29/18 12:54	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	08/29/18 12:54	
Ethylbenzene	ug/L	ND	5.0	1.6	08/29/18 12:54	
m&p-Xylene	ug/L	ND	10.0	3.1	08/29/18 12:54	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	08/29/18 12:54	
Naphthalene	ug/L	ND	5.0	2.0	08/29/18 12:54	
o-Xylene	ug/L	ND	5.0	1.6	08/29/18 12:54	
tert-Amyl Alcohol	ug/L	ND	100	76.8	08/29/18 12:54	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	08/29/18 12:54	
tert-Butyl Alcohol	ug/L	ND	100	57.7	08/29/18 12:54	
tert-Butyl Formate	ug/L	ND	50.0	7.3	08/29/18 12:54	
Toluene	ug/L	ND	5.0	1.6	08/29/18 12:54	
Xylene (Total)	ug/L	ND	5.0	5.0	08/29/18 12:54	
1,2-Dichloroethane-d4 (S)	%	99	70-130		08/29/18 12:54	
4-Bromofluorobenzene (S)	%	101	70-130		08/29/18 12:54	
Toluene-d8 (S)	%	103	70-130		08/29/18 12:54	

LABORATORY CONTROL SAMPLE: 2362318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.3	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	818	82	70-130	
Benzene	ug/L	50	50.4	101	70-130	
Diisopropyl ether	ug/L	50	51.3	103	70-130	
Ethanol	ug/L	2000	1720	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	47.1	94	70-130	
m&p-Xylene	ug/L	100	96.1	96	70-130	
Methyl-tert-butyl ether	ug/L	50	48.8	98	70-130	
Naphthalene	ug/L	50	54.3	109	70-130	
o-Xylene	ug/L	50	49.1	98	70-130	
tert-Amyl Alcohol	ug/L	1000	973	97	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	431	86	70-130	
tert-Butyl Formate	ug/L	400	450	113	70-130	
Toluene	ug/L	50	48.0	96	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

LABORATORY CONTROL SAMPLE: 2362318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2362319 2362320

Parameter	Units	2362319		2362320		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92397218002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	500	500	563	571	110	112	70-130	1	30
3,3-Dimethyl-1-Butanol	ug/L	ND	10000	10000	8390	8310	84	83	70-130	1	30
Benzene	ug/L	4120	500	500	4910	5050	159	186	70-130	3	30 E,M1
Diisopropyl ether	ug/L	44.8J	500	500	592	594	109	110	70-130	0	30
Ethanol	ug/L	ND	20000	20000	19400	18800	97	94	70-130	3	30
Ethyl-tert-butyl ether	ug/L	ND	1000	1000	1050	1060	105	106	70-130	1	30
Ethylbenzene	ug/L	1210	500	500	1820	1850	121	127	70-130	1	30
m&p-Xylene	ug/L	4430	1000	1000	5760	5830	134	140	70-130	1	30 M1
Methyl-tert-butyl ether	ug/L	1160	500	500	1800	1820	128	133	70-130	1	30 M1
Naphthalene	ug/L	427	500	500	931	967	101	108	70-130	4	30
o-Xylene	ug/L	1620	500	500	2280	2290	132	133	70-130	0	30 M1
tert-Amyl Alcohol	ug/L	ND	10000	10000	11600	11400	116	114	70-130	2	30
tert-Amylmethyl ether	ug/L	ND	1000	1000	1050	1060	105	106	70-130	1	30
tert-Butyl Alcohol	ug/L	ND	5000	5000	5500	5310	110	106	70-130	4	30
tert-Butyl Formate	ug/L	ND	4000	4000	3000	3000	75	75	70-130	0	30
Toluene	ug/L	2040	500	500	2630	2710	119	135	70-130	3	30 M1
Xylene (Total)	ug/L	6050	1500	1500	8040	8120	133	138	70-130	1	30 MS
1,2-Dichloroethane-d4 (S)	%						99	95	70-130		
4-Bromofluorobenzene (S)	%						101	98	70-130		
Toluene-d8 (S)	%						97	99	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

QC Batch: 427742 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92397424005, 92397424006, 92397424009, 92397424010, 92397424011, 92397424012, 92397424013, 92397424014, 92397424016

METHOD BLANK: 2362553 Matrix: Water
Associated Lab Samples: 92397424005, 92397424006, 92397424009, 92397424010, 92397424011, 92397424012, 92397424013, 92397424014, 92397424016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	08/30/18 00:46	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	08/30/18 00:46	
Benzene	ug/L	ND	5.0	1.7	08/30/18 00:46	
Diisopropyl ether	ug/L	ND	5.0	1.7	08/30/18 00:46	
Ethanol	ug/L	ND	200	131	08/30/18 00:46	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	08/30/18 00:46	
Ethylbenzene	ug/L	ND	5.0	1.6	08/30/18 00:46	
m&p-Xylene	ug/L	ND	10.0	3.1	08/30/18 00:46	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	08/30/18 00:46	
Naphthalene	ug/L	ND	5.0	2.0	08/30/18 00:46	
o-Xylene	ug/L	ND	5.0	1.6	08/30/18 00:46	
tert-Amyl Alcohol	ug/L	ND	100	76.8	08/30/18 00:46	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	08/30/18 00:46	
tert-Butyl Alcohol	ug/L	ND	100	57.7	08/30/18 00:46	
tert-Butyl Formate	ug/L	ND	50.0	7.3	08/30/18 00:46	
Toluene	ug/L	ND	5.0	1.6	08/30/18 00:46	
Xylene (Total)	ug/L	ND	5.0	5.0	08/30/18 00:46	
1,2-Dichloroethane-d4 (S)	%	101	70-130		08/30/18 00:46	
4-Bromofluorobenzene (S)	%	99	70-130		08/30/18 00:46	
Toluene-d8 (S)	%	105	70-130		08/30/18 00:46	

LABORATORY CONTROL SAMPLE: 2362554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	951	95	70-130	
Benzene	ug/L	50	52.1	104	70-130	
Diisopropyl ether	ug/L	50	52.9	106	70-130	
Ethanol	ug/L	2000	1850	92	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	99.7	100	70-130	
Methyl-tert-butyl ether	ug/L	50	49.4	99	70-130	
Naphthalene	ug/L	50	54.5	109	70-130	
o-Xylene	ug/L	50	50.9	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	482	96	70-130	

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

LABORATORY CONTROL SAMPLE: 2362554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	459	115	70-130	
Toluene	ug/L	50	49.4	99	70-130	
Xylene (Total)	ug/L	150	151	100	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2362555 2362556

Parameter	Units	92397218001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1,2-Dichloroethane	ug/L	ND	1000	1000	1140	1200	114	120	70-130	5	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	15000	16300	75	82	70-130	8	30		
Benzene	ug/L	355	1000	1000	1460	1550	111	120	70-130	6	30		
Diisopropyl ether	ug/L	ND	1000	1000	1080	1150	106	114	70-130	7	30		
Ethanol	ug/L	ND	40000	40000	36000	38600	90	96	70-130	7	30		
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	2090	2200	104	110	70-130	5	30		
Ethylbenzene	ug/L	956	1000	1000	1920	2050	97	110	70-130	7	30		
m&p-Xylene	ug/L	3350	2000	2000	5210	5560	93	110	70-130	6	30		
Methyl-tert-butyl ether	ug/L	ND	1000	1000	1080	1130	108	113	70-130	4	30		
Naphthalene	ug/L	307	1000	1000	1300	1400	99	110	70-130	7	30		
o-Xylene	ug/L	1600	1000	1000	2570	2740	96	113	70-130	6	30		
tert-Amyl Alcohol	ug/L	ND	20000	20000	20800	22000	104	110	70-130	5	30		
tert-Amylmethyl ether	ug/L	ND	2000	2000	2080	2210	104	110	70-130	6	30		
tert-Butyl Alcohol	ug/L	ND	10000	10000	10400	10900	104	109	70-130	5	30		
tert-Butyl Formate	ug/L	ND	8000	8000	5920	6220	74	78	70-130	5	30		
Toluene	ug/L	6920	1000	1000	7470	7820	55	90	70-130	5	30	M1	
Xylene (Total)	ug/L	4960	3000	3000	7780	8290	94	111	70-130	6	30		
1,2-Dichloroethane-d4 (S)	%						98	100	70-130				
4-Bromofluorobenzene (S)	%						98	98	70-130				
Toluene-d8 (S)	%						99	98	70-130				

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

QC Batch: 428134 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92397424015

METHOD BLANK: 2364808 Matrix: Water
Associated Lab Samples: 92397424015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	08/31/18 01:32	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	08/31/18 01:32	
Benzene	ug/L	ND	5.0	1.7	08/31/18 01:32	
Diisopropyl ether	ug/L	ND	5.0	1.7	08/31/18 01:32	
Ethanol	ug/L	ND	200	131	08/31/18 01:32	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	08/31/18 01:32	
Ethylbenzene	ug/L	ND	5.0	1.6	08/31/18 01:32	
m&p-Xylene	ug/L	ND	10.0	3.1	08/31/18 01:32	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	08/31/18 01:32	
Naphthalene	ug/L	ND	5.0	2.0	08/31/18 01:32	
o-Xylene	ug/L	ND	5.0	1.6	08/31/18 01:32	
tert-Amyl Alcohol	ug/L	ND	100	76.8	08/31/18 01:32	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	08/31/18 01:32	
tert-Butyl Alcohol	ug/L	ND	100	57.7	08/31/18 01:32	
tert-Butyl Formate	ug/L	ND	50.0	7.3	08/31/18 01:32	
Toluene	ug/L	ND	5.0	1.6	08/31/18 01:32	
Xylene (Total)	ug/L	ND	5.0	5.0	08/31/18 01:32	
1,2-Dichloroethane-d4 (S)	%	100	70-130		08/31/18 01:32	
4-Bromofluorobenzene (S)	%	98	70-130		08/31/18 01:32	
Toluene-d8 (S)	%	103	70-130		08/31/18 01:32	

LABORATORY CONTROL SAMPLE: 2364809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	963	96	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethanol	ug/L	2000	1730	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.4	97	70-130	
Ethylbenzene	ug/L	50	49.1	98	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Naphthalene	ug/L	50	55.2	110	70-130	
o-Xylene	ug/L	50	51.5	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	99.6	100	70-130	
tert-Butyl Alcohol	ug/L	500	449	90	70-130	
tert-Butyl Formate	ug/L	400	429	107	70-130	
Toluene	ug/L	50	47.4	95	70-130	

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

LABORATORY CONTROL SAMPLE: 2364809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2364810 2364811

Parameter	Units	2364810		2364811		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92397424015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	1000	1000	1070	1150	100	109	70-130	8	30
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	17800	18900	89	94	70-130	6	30
Benzene	ug/L	7550	1000	1000	8370	8550	82	100	70-130	2	30
Diisopropyl ether	ug/L	1910	1000	1000	3090	3170	118	125	70-130	2	30
Ethanol	ug/L	ND	40000	40000	36500	39300	91	98	70-130	7	30
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	2040	2090	102	104	70-130	2	30
Ethylbenzene	ug/L	251	1000	1000	1300	1360	105	111	70-130	5	30
m&p-Xylene	ug/L	3230	2000	2000	5260	5460	101	111	70-130	4	30
Methyl-tert-butyl ether	ug/L	ND	1000	1000	999	1010	100	101	70-130	1	30
Naphthalene	ug/L	1160	1000	1000	2240	2450	109	129	70-130	9	30
o-Xylene	ug/L	2720	1000	1000	3710	3870	98	115	70-130	4	30
tert-Amyl Alcohol	ug/L	5530	20000	20000	27000	28300	107	114	70-130	5	30
tert-Amylmethyl ether	ug/L	ND	2000	2000	2110	2150	105	108	70-130	2	30
tert-Butyl Alcohol	ug/L	ND	10000	10000	11000	11600	110	116	70-130	6	30
tert-Butyl Formate	ug/L	ND	8000	8000	6070	5960	76	74	70-130	2	30
Toluene	ug/L	5430	1000	1000	6080	6260	65	83	70-130	3	30 M1
Xylene (Total)	ug/L	5960	3000	3000	8970	9320	100	112	70-130	4	30
1,2-Dichloroethane-d4 (S)	%						96	97	70-130		
4-Bromofluorobenzene (S)	%						98	97	70-130		
Toluene-d8 (S)	%						98	97	70-130		

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

QC Batch: 428343 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92397424001

METHOD BLANK: 2365780 Matrix: Water
Associated Lab Samples: 92397424001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	08/31/18 14:49	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	08/31/18 14:49	
Benzene	ug/L	ND	5.0	1.7	08/31/18 14:49	
Diisopropyl ether	ug/L	ND	5.0	1.7	08/31/18 14:49	
Ethanol	ug/L	ND	200	131	08/31/18 14:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	08/31/18 14:49	
Ethylbenzene	ug/L	ND	5.0	1.6	08/31/18 14:49	
m&p-Xylene	ug/L	ND	10.0	3.1	08/31/18 14:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	08/31/18 14:49	
Naphthalene	ug/L	ND	5.0	2.0	08/31/18 14:49	
o-Xylene	ug/L	ND	5.0	1.6	08/31/18 14:49	
tert-Amyl Alcohol	ug/L	ND	100	76.8	08/31/18 14:49	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	08/31/18 14:49	
tert-Butyl Alcohol	ug/L	ND	100	57.7	08/31/18 14:49	
tert-Butyl Formate	ug/L	ND	50.0	7.3	08/31/18 14:49	
Toluene	ug/L	ND	5.0	1.6	08/31/18 14:49	
Xylene (Total)	ug/L	ND	5.0	5.0	08/31/18 14:49	
1,2-Dichloroethane-d4 (S)	%	99	70-130		08/31/18 14:49	
4-Bromofluorobenzene (S)	%	99	70-130		08/31/18 14:49	
Toluene-d8 (S)	%	103	70-130		08/31/18 14:49	

LABORATORY CONTROL SAMPLE: 2365781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.8	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	56.0	112	70-130	
Diisopropyl ether	ug/L	50	55.3	111	70-130	
Ethanol	ug/L	2000	2040	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	53.7	107	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	51.0	102	70-130	
Naphthalene	ug/L	50	60.6	121	70-130	
o-Xylene	ug/L	50	55.8	112	70-130	
tert-Amyl Alcohol	ug/L	1000	1190	119	70-130	
tert-Amylmethyl ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	505	101	70-130	
tert-Butyl Formate	ug/L	400	476	119	70-130	
Toluene	ug/L	50	53.0	106	70-130	

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

LABORATORY CONTROL SAMPLE: 2365781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2367212

Parameter	Units	92397424001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	50	63.7	127	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1090	109	70-130	
Benzene	ug/L	373	50	467	188	70-130	M1
Diisopropyl ether	ug/L	ND	50	64.5	129	70-130	
Ethanol	ug/L	ND	2000	2290	114	70-130	
Ethyl-tert-butyl ether	ug/L	16.6J	100	140	123	70-130	
Ethylbenzene	ug/L	71.5	50	136	128	70-130	
m&p-Xylene	ug/L	374	100	540	167	70-130	M1
Methyl-tert-butyl ether	ug/L	33.3	50	103	139	70-130	M1
Naphthalene	ug/L	46.2	50	107	121	70-130	
o-Xylene	ug/L	187	50	266	158	70-130	M1
tert-Amyl Alcohol	ug/L	868	1000	2290	143	70-130	M1
tert-Amylmethyl ether	ug/L	ND	100	119	115	70-130	
tert-Butyl Alcohol	ug/L	1610	500	2740	225	70-130	M1
tert-Butyl Formate	ug/L	ND	400	274	69	70-130	P5
Toluene	ug/L	10.9J	50	67.3	113	70-130	
Xylene (Total)	ug/L	561	150	807	164	70-130	MS
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2367211

Parameter	Units	92397653022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	80.0	87.3	9	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	32.4	33.2	2	30	
m&p-Xylene	ug/L	226	243	7	30	
Methyl-tert-butyl ether	ug/L	19.2	21.8	13	30	
Naphthalene	ug/L	71.5	65.9	8	30	
o-Xylene	ug/L	258	273	6	30	
tert-Amyl Alcohol	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460

Pace Project No.: 92397424

SAMPLE DUPLICATE: 2367211

Parameter	Units	92397653022 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	7.8J	8.0J		30	
Xylene (Total)	ug/L	484	516	6	30	
1,2-Dichloroethane-d4 (S)	%	102	115	12		
4-Bromofluorobenzene (S)	%	97	100	4		
Toluene-d8 (S)	%	101	103	2		

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

QC Batch: 428542 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92397424001, 92397424002, 92397424003, 92397424004, 92397424005, 92397424006, 92397424007, 92397424008, 92397424009, 92397424010, 92397424011, 92397424012

METHOD BLANK: 2366959 Matrix: Water
Associated Lab Samples: 92397424001, 92397424002, 92397424003, 92397424004, 92397424005, 92397424006, 92397424007, 92397424008, 92397424009, 92397424010, 92397424011, 92397424012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/02/18 22:57	
1-Chloro-2-bromopropane (S)	%	106	60-140		09/02/18 22:57	

LABORATORY CONTROL SAMPLE & LCSD: 2366960 2366961

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.24	0.26	99	103	60-140	8	20	
1-Chloro-2-bromopropane (S)	%				103	105	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2366962 2366963

Parameter	Units	92397226012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.31	0.32	128	132	60-140	3	20	
1-Chloro-2-bromopropane (S)	%						124	117	60-140			

SAMPLE DUPLICATE: 2366964

Parameter	Units	92397424004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	95	101	6		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

QC Batch: 428545 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92397424013, 92397424014, 92397424015, 92397424016, 92397424017

METHOD BLANK: 2366969 Matrix: Water
Associated Lab Samples: 92397424013, 92397424014, 92397424015, 92397424016, 92397424017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/03/18 07:02	
1-Chloro-2-bromopropane (S)	%	125	60-140		09/03/18 07:02	

LABORATORY CONTROL SAMPLE & LCSD: 2366970 2366971

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.29	0.27	119	110	60-140	9	20	
1-Chloro-2-bromopropane (S)	%				124	118	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2366972 2366973

Parameter	Units	92397424015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.20	.25	.25	0.55	0.55	140	140	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						134	134	60-140			

SAMPLE DUPLICATE: 2366974

Parameter	Units	92397424017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	99	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pantry 911 10628/18-6460
Pace Project No.: 92397424

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92397424001	MW-4R	EPA 8011	428542	EPA 8011	428551
92397424002	MW-5RR	EPA 8011	428542	EPA 8011	428551
92397424003	MW-9	EPA 8011	428542	EPA 8011	428551
92397424004	MW-10	EPA 8011	428542	EPA 8011	428551
92397424005	MW-11	EPA 8011	428542	EPA 8011	428551
92397424006	MW-14	EPA 8011	428542	EPA 8011	428551
92397424007	MW-15	EPA 8011	428542	EPA 8011	428551
92397424008	MW-16	EPA 8011	428542	EPA 8011	428551
92397424009	MW-17	EPA 8011	428542	EPA 8011	428551
92397424010	MW-18	EPA 8011	428542	EPA 8011	428551
92397424011	MW-19	EPA 8011	428542	EPA 8011	428551
92397424012	MW-20	EPA 8011	428542	EPA 8011	428551
92397424013	PW-1R	EPA 8011	428545	EPA 8011	428552
92397424014	RW-2	EPA 8011	428545	EPA 8011	428552
92397424015	RW-4	EPA 8011	428545	EPA 8011	428552
92397424016	DUP	EPA 8011	428545	EPA 8011	428552
92397424017	FB	EPA 8011	428545	EPA 8011	428552
92397424001	MW-4R	EPA 8260B	428343		
92397424002	MW-5RR	EPA 8260B	427696		
92397424003	MW-9	EPA 8260B	427696		
92397424004	MW-10	EPA 8260B	427696		
92397424005	MW-11	EPA 8260B	427742		
92397424006	MW-14	EPA 8260B	427742		
92397424007	MW-15	EPA 8260B	427696		
92397424008	MW-16	EPA 8260B	427696		
92397424009	MW-17	EPA 8260B	427742		
92397424010	MW-18	EPA 8260B	427742		
92397424011	MW-19	EPA 8260B	427742		
92397424012	MW-20	EPA 8260B	427742		
92397424013	PW-1R	EPA 8260B	427742		
92397424014	RW-2	EPA 8260B	427742		
92397424015	RW-4	EPA 8260B	428134		
92397424016	DUP	EPA 8260B	427742		
92397424017	FB	EPA 8260B	427696		
92397424018	TB	EPA 8260B	427696		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

MECI

Project #:

WO# : 92397424



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MD 8/28/18

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 92T045 Type of Ice: Wet Blue None

Cooler Temp (°C): 3.8 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.7

USDA Regulated Soil N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: TC

Date: 8/28/18

Project Manager SRF Review: TC

Date: 8/28/18

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92397424**

PM: RWC

Due Date: 09/05/18

CLIENT: 92-MIDLAND

Pg. 1

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S03S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92397424**

PM: RWC

Due Date: 09/05/18

CLIENT: 92-MIDLAND

pyz

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGfU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2-7B	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: **MECT**
 Address: **231 Doble Rd.**
 Email To: **jo@mect.net**
 Phone: **803-808-2043**
 Requested Due Date/AT: **8/28/18**

Section B
 Required Project Information:
 Report To: **B. Shane**
 Copy To:
 Project Name: **Painty Hill**
 Purchase Order No.:
 Project Number: **UST-10008/MECT-15-040**

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Price Quote Reference:
 Price Project Manager:
 Price Profile #:

Page: **1** of **2**
 2269052

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location STATE: **SC**
 Requested Analysis Filtered (Y/N)
Esper

ITEM #	Section D Required Client Information	Matrix Codes Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/DIMS			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃				
1	NV-3R		WT 6	G	8/27/18	11:00		6									92397424	
2	NV-4R		WT 6	G	8/27/18	10:12		6									DN5	
3	NV-5RR		WT 6	G	8/27/18	10:12		6									DN5	
4	NV-7RR		WT 6	G	8/27/18	10:06		6									DN5	
5	NV-9		WT 6	G	8/27/18	12:42		6									No odor 003	
6	NV-10		WT 6	G	8/27/18	13:24		6									Organic odor 005	
7	NV-11		WT 6	G	8/27/18	10:34		6									No odor 006	
8	NV-14		WT 6	G	8/27/18	11:55		6									Slight odor 007	
9	NV-15		WT 6	G	8/27/18	11:28		6									No odor 008	
10	NV-16		WT 6	G	8/27/18	11:35		6									Organic odor 009	
11	NV-17		WT 6	G	8/27/18	12:35		6									No odor 010	
12	NV-18		WT 6	G	8/27/18	12:35		6									Organic odor 011	

ADDITIONAL COMMENTS
 RELINQUISHED BY / AFFILIATION: *[Signature]* DATE: 8/27/18 TIME: 10:00
 ACCEPTED BY / AFFILIATION: *[Signature]* DATE: 8/28/18 TIME: 11:44
 SAMPLE CONDITIONS: Y N Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Levi Proffery**
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): 8/27/18

Temp in °C: 3.7
 Received on Ice (Y/N): Y
 Custody Sealed Cooler (Y/N): N
 Samples Intact (Y/N): Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
 F-ALL-C-010-rev. 00, 09NOV2017

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2 Page 40 of 40

Section A Required Client Information: Company: NBT Address: 231 Bailey Rd Evansville, SC, 29071 Email To: jeff@nbt.net		Section B Required Project Information: Report To: D. Shone Copy To: Purchase Order No.: Project Name: Public #11 Requested Date Date/AT: 8/23/18 08:20AM	
Section C Invoice Information: Attention: Company Name: Address: Page Quote Reference: Project Manager: T. Carter Price Profile #:		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location STATE: SC Inoper	

ITEM #	Section D Required Client Information Matrix / CODE	Matrix Codes DW WT WW P SL OL WP AR TS OT	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
					DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH			
1	NW-A		WT G		8/21/18	10:27	6	6										No odor 0/1
2	NW-10		WT G		8/21/18	11:20	6	6										No odor 0/2
3	NW-1R		WT G		8/27/18	11:02	6	6										Odor, Sheung 2
4	NW-		WT G		8/21/18	11:07	6	6										DNS
5	NW-		WT G		8/21/18	12:09	6	6										Odor, Sheung 1.5
6	NW-3		WT G		8/21/18	12:25	6	6										DNS
7	NW-4		WT G		8/21/18	12:50	6	6										No odor 0/6
8	NW-5		WT G		8/21/18	12:51	6	6										Field Blank 0/7
9	NW-6		WT G															Trip Blank 0/8
10	NW-		WT G															
11	NW-		WT G															
12	NW-		WT G															

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

DATE

TIME

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PRINT Name of SAMPLER: **Mr. Pinkney**

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): **8/27/18**

PRINT Name of ANALYST: **Michael D.**

SIGNATURE of ANALYST: *[Signature]*

DATE Signed (MM/DD/YY): **8-28-18**

*Important Note: By signing this form you are accepting Page's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09NOV2017



Pace Analytical Services, LLC
9800 Kinsey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 07, 2018

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter
treycarter@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92397422001	WSW-1	Water	08/27/18 12:48	08/28/18 06:44
92397422002	WSW-DUP	Water	08/27/18 12:49	08/28/18 06:44
92397422003	WSW-FB	Water	08/27/18 12:52	08/28/18 06:44
92397422004	WSW-TB	Water	08/27/18 12:53	08/28/18 06:44

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SAMPLE ANALYTE COUNT

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92397422001	WSW-1	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92397422002	WSW-DUP	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92397422003	WSW-FB	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92397422004	WSW-TB	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pantry 911 WSW 10628/18-6460

Pace Project No.: 92397422

Sample: WSW-1 Lab ID: 92397422001 Collected: 08/27/18 12:48 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
504 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/30/18 10:04	08/30/18 23:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	70-130		1	08/30/18 10:04	08/30/18 23:43	301-79-56	
524.2 MSV									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/05/18 03:53	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/05/18 03:53	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/05/18 03:53	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/05/18 03:53	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/05/18 03:53	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/05/18 03:53	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/05/18 03:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/05/18 03:53	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		09/05/18 03:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		09/05/18 03:53	17060-07-0	
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/30/18 17:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/30/18 17:35	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/30/18 17:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/30/18 17:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/30/18 17:35	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/30/18 17:35	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 17:35	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/30/18 17:35	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/30/18 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		08/30/18 17:35	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/30/18 17:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pantry 911 WSW 10628/18-6460

Pace Project No.: 92397422

Sample: WSW-DUP Lab ID: 92397422002 Collected: 08/27/18 12:49 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	08/30/18 10:04	08/31/18 00:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	08/30/18 10:04	08/31/18 00:01	301-79-56	
524.2 MSV									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/05/18 04:17	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/05/18 04:17	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/05/18 04:17	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/05/18 04:17	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/05/18 04:17	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/05/18 04:17	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/05/18 04:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/05/18 04:17	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		09/05/18 04:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		09/05/18 04:17	17060-07-0	
8260 MSV Low Level SC									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/30/18 17:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/30/18 17:52	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/30/18 17:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/30/18 17:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/30/18 17:52	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/30/18 17:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 17:52	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/30/18 17:52	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/30/18 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		08/30/18 17:52	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/30/18 17:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

Sample: WSW-FB		Lab ID: 92397422003		Collected: 08/27/18 12:52		Received: 08/28/18 06:44		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/06/18 12:06	09/06/18 20:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	70-130		1	09/06/18 12:06	09/06/18 20:35	301-79-56	
524.2 MSV		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		09/05/18 04:42	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/05/18 04:42	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/05/18 04:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/05/18 04:42	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/05/18 04:42	91-20-3	
Toluene	0.26J	ug/L	0.50	0.25	1		09/05/18 04:42	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/05/18 04:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/05/18 04:42	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		09/05/18 04:42	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		09/05/18 04:42	17060-07-0	
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/30/18 18:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/30/18 18:09	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/30/18 18:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/30/18 18:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/30/18 18:09	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/30/18 18:09	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 18:09	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/30/18 18:09	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/30/18 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		08/30/18 18:09	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/30/18 18:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pantry 911 WSW 10628/18-6460

Pace Project No.: 92397422

Sample: WSW-TB Lab ID: 92397422004 Collected: 08/27/18 12:53 Received: 08/28/18 06:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		09/05/18 05:06	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/05/18 05:06	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/05/18 05:06	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/05/18 05:06	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/05/18 05:06	91-20-3	
Toluene	0.27J	ug/L	0.50	0.25	1		09/05/18 05:06	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/05/18 05:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		09/05/18 05:06	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		09/05/18 05:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		09/05/18 05:06	17060-07-0	
8260 MSV Low Level SC		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/30/18 18:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/30/18 18:26	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/30/18 18:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/30/18 18:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/30/18 18:26	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/30/18 18:26	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/30/18 18:26	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/30/18 18:26	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/30/18 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		08/30/18 18:26	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/30/18 18:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

QC Batch: 474368 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92397422001, 92397422002, 92397422003, 92397422004

METHOD BLANK: 2566557 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	09/04/18 22:39	
Benzene	ug/L	ND	0.50	0.25	09/04/18 22:39	
Ethylbenzene	ug/L	ND	0.50	0.25	09/04/18 22:39	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	09/04/18 22:39	
Naphthalene	ug/L	ND	0.50	0.25	09/04/18 22:39	
Toluene	ug/L	ND	0.50	0.25	09/04/18 22:39	
Xylene (Total)	ug/L	ND	0.50	0.25	09/04/18 22:39	
1,2-Dichloroethane-d4 (S)	%	98	70-130		09/04/18 22:39	
4-Bromofluorobenzene (S)	%	89	70-130		09/04/18 22:39	
Toluene-d8 (S)	%	97	70-130		09/04/18 22:39	

LABORATORY CONTROL SAMPLE & LCSD: 2566558

2566559

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	40	33.9	34.2	85	86	70-130	1	40	
Benzene	ug/L	40	43.1	42.6	108	107	70-130	1	40	
Ethylbenzene	ug/L	40	43.1	42.5	108	106	70-130	2	40	
Methyl-tert-butyl ether	ug/L	40	48.8	51.0	122	127	70-130	4	40	
Naphthalene	ug/L	40	32.3	36.8	81	92	70-130	13	40	
Toluene	ug/L	40	42.4	42.8	106	107	70-130	1	40	
Xylene (Total)	ug/L	120	135	135	113	112	70-130	1	40	
1,2-Dichloroethane-d4 (S)	%				98	100	70-130			
4-Bromofluorobenzene (S)	%				103	103	70-130			
Toluene-d8 (S)	%				101	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

QC Batch: 428036 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92397422001, 92397422002, 92397422003, 92397422004

METHOD BLANK: 2364295 Matrix: Water
Associated Lab Samples: 92397422001, 92397422002, 92397422003, 92397422004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	08/30/18 10:15	
Diisopropyl ether	ug/L	ND	1.0	0.12	08/30/18 10:15	
Ethanol	ug/L	ND	200	131	08/30/18 10:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	08/30/18 10:15	
tert-Amyl Alcohol	ug/L	ND	100	50.0	08/30/18 10:15	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	08/30/18 10:15	
tert-Butyl Alcohol	ug/L	ND	100	3.6	08/30/18 10:15	
tert-Butyl Formate	ug/L	ND	50.0	1.9	08/30/18 10:15	
1,2-Dichloroethane-d4 (S)	%	89	70-130		08/30/18 10:15	
4-Bromofluorobenzene (S)	%	104	70-130		08/30/18 10:15	
Toluene-d8 (S)	%	110	70-130		08/30/18 10:15	

LABORATORY CONTROL SAMPLE: 2364296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Diisopropyl ether	ug/L	50	48.1	96	70-130	
Ethanol	ug/L	2000	2060	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.3	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1010	101	70-130	
tert-Amylmethyl ether	ug/L	100	99.2	99	70-130	
tert-Butyl Alcohol	ug/L	500	451	90	70-130	
tert-Butyl Formate	ug/L	400	382	96	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 2364298

Parameter	Units	92397417003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	391	98	70-130	
Diisopropyl ether	ug/L	ND	20	19.5	97	70-130	
Ethanol	ug/L	ND	800	848	106	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	37.3	93	70-130	
tert-Amyl Alcohol	ug/L	ND	400	381	95	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.1	100	70-130	
tert-Butyl Alcohol	ug/L	ND	200	285	142	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

MATRIX SPIKE SAMPLE: 2364298		92397417003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				89	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2364297

Parameter	Units	92397417002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	89	95	6		
4-Bromofluorobenzene (S)	%	101	100	2		
Toluene-d8 (S)	%	116	109	6		

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QUALITY CONTROL DATA

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

QC Batch: 427950 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92397422001, 92397422002

METHOD BLANK: 2363735 Matrix: Water
Associated Lab Samples: 92397422001, 92397422002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	08/30/18 16:12	
1-Chloro-2-bromopropane (S)	%	101	70-130		08/30/18 16:12	

LABORATORY CONTROL SAMPLE & LCSD: 2363736 2363738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.26	0.26	105	104	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				100	96	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2363739 2363740

Parameter	Units	92397131038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.30	0.30	123	121	65-135	1	20	
1-Chloro-2-bromopropane (S)	%						114	113	70-130			

SAMPLE DUPLICATE: 2363741

Parameter	Units	92397131041 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	94	103	8		

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QUALITY CONTROL DATA

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

QC Batch: 429144 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92397422003

METHOD BLANK: 2369359 Matrix: Water
Associated Lab Samples: 92397422003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/06/18 19:40	
1-Chloro-2-bromopropane (S)	%	121	70-130		09/06/18 19:40	

LABORATORY CONTROL SAMPLE & LCSD: 2369360 2369361

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.30	0.28	125	113	70-130	8	20	
1-Chloro-2-bromopropane (S)	%				121	108	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2369362 2369363

Parameter	Units	92397422003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.31	0.30	128	124	65-135	3	20	
1-Chloro-2-bromopropane (S)	%						121	118	70-130			

SAMPLE DUPLICATE: 2369364

Parameter	Units	92397761003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	104	116	13		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pantry 911 WSW 10628/18-6460
Pace Project No.: 92397422

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92397422001	WSW-1	EPA 504.1	427950	EPA 504.1	428112
92397422002	WSW-DUP	EPA 504.1	427950	EPA 504.1	428112
92397422003	WSW-FB	EPA 504.1	429144	EPA 504.1	429255
92397422001	WSW-1	EPA 524.2	474368		
92397422002	WSW-DUP	EPA 524.2	474368		
92397422003	WSW-FB	EPA 524.2	474368		
92397422004	WSW-TB	EPA 524.2	474368		
92397422001	WSW-1	EPA 8260B	428036		
92397422002	WSW-DUP	EPA 8260B	428036		
92397422003	WSW-FB	EPA 8260B	428036		
92397422004	WSW-TB	EPA 8260B	428036		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
 Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: MECI Project **W0#: 92397422**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: SN 8-28-18

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 92T045 Type of Ice: Wet Blue None

Cooler Temp (°C): 3.7 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.6

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: TC

Date: 8/28/18

Project Manager SRF Review: TC

Date: 8/25/18



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92397422**

PM: RWC

Due Date: 09/07/18

CLIENT: 92-MIDLAND

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																6	3	3											
2																6	3	3											
3																6	3	3											
4																6	3	3											
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



www.paceanalytical.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
Company: **NECI**
Address: **31 Dooly Rd.**
Lanham, SC 29071
Email To: **info@eci.net**
Phone: **803-203-2013**
Requested Due Date/AT: **8/23/18**

Section B
Required Project Information:
Report To: **P. Shaw**
Copy To:
Purchase Order No.:
Project Name: **Pinky 9W - WSW**
Project Number: **USE-10625/HBT-18-6460**

Section C
Invoice Information:
Attention:
Company Name:
Address:
Page Date:
Relationship:
Face Project Manager:
Page Profile #:
REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
Site Location STATE: **SC**
Site Manager: **Supper**

Page: **1** of **1**
2269054

ITEM #	Section D Required Client Information	Matrix Codes MATRIX 1 CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					COMPOSITE START	COMPOSITE END/RAB			DATE	TIME	DATE	TIME	DATE	TIME				
1	WSU-1		DM G			8/27/18	12:48	9										
2	WSU-DIRP		DM G			8/27/18	12:49	9										
3	WSU-FB		DM G			8/27/18	12:52	9										
4	WSU-TB		DM G			8/27/18	12:53	6										

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	8/27/18		<i>[Signature]</i>	8/28/18	14:23	Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Levi Pinckney	DATE Signed (MM/DD/YYYY): 8/27/18	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: <i>[Signature]</i>					

ORIGINAL

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:
SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS
(Not Applicable)

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS
(Not Applicable)

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
(Not Applicable)

**APPENDIX G:
DISPOSAL MANIFEST**



September 18, 2018

Re: Treatment of Purge Water
Shreejakshani / Pantry 911
Hardeeville, South Carolina
SCDHEC Site ID Number 10628
MECI Project Number 18-6460

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

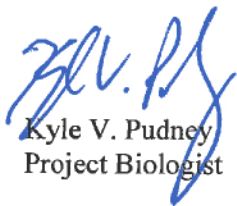
September 27, 2017

A total of 74.75 gallons were treated on August 27, 2018 during the sampling event at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Kyle V. Pudney
Project Biologist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:
FATE AND TRANSPORT MODELING
(Not Applicable)

APPENDIX J:
ACCESS AGREEMENTS
(Not Applicable)

**APPENDIX K:
DATA VERIFICATION CHECKLIST**

Contractor Checklist

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

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



OCT 19 2018

**MR DONNIE MALPHRUS
MALPHRUS ENTERPRISES
2788 NORTH OKATIE HIGHWAY
RIDGELAND SC 29936**

Re: **Aggressive Fluid and Vapor Recovery (AFVR) Notice to Proceed**
Shreejakshani Llc DbA Okatie Mart, 6195 South Okatie Highway, Hardeeville, SC
UST Permit #10628; CA #58209
Release reported April 28, 1995
Groundwater Sampling received October 8, 2018
Jasper County



Dear Mr. Malphrus:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (COC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). Two 96-hour events should be performed. First event should utilize monitoring wells RW-3, RW-6, and MW-3 and the second event should utilize RW-1, RW-5, and MW-7RR. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 15 feet in the wells. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the DHEC QAPP for the Underground Storage Tank Division is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact me at butlerkh@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. 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.

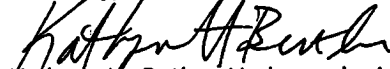
Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the 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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC 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, DHEC 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.

DHEC 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 RBSLs, 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 RBSLs.

On all correspondence concerning this site, please reference UST Permit #10628. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0606, by fax at (803) 898-0673, or by e-mail at butlerkh@dhec.sc.gov.

Sincerely,



Kathryn H. Butler, Hydrogeologist
Corrective Action & Field Support
Underground Storage Tank Management Division
Bureau of Land and Waste Management

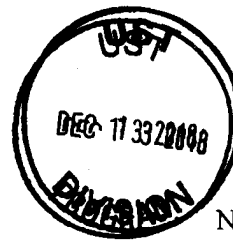
enc: Approved Cost Agreement

cc: Midlands Environmental Consultants, Inc., PO BOX 854, Lexington, SC 29071 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 58209

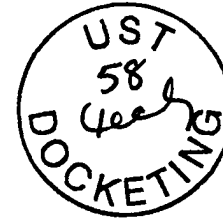
Facility: 10628 SHREEJAKSHANI LLC DBA OKATIE MART
BUTLERKH
PO Number:

<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	\$45,281.250	5,433.75
23 EFR		A4 96 HOUR EVENT	2.0000	\$12,567.500	25,135.00
		C4 OFF GAS TREATMENT 96 HOUR	2.0000	\$780.000	1,560.00
		D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
		F1 EFFLUENT DISPOSAL	40,000.0000	\$0.440	17,600.00
		G AFVR EQUIPMENT MOB	2.0000	\$391.500	783.00
		Total Amount			50,715.00



November 27, 2018

Ms. Kathryn H. Butler, Hydrogeologist
 Corrective Action & Field Support
 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: Aggressive Fluid Vapor Recovery Report
 Shreejakshani (Former Pantry 911)
 6195 Okatie Highway
 Hardeeville, South Carolina
 SCDHEC Site ID # 10628; CA # 58209
 MECI Project Number 18-6661
 Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Butler,

On behalf of Mr. Donnie Malphrus of Malphrus Industries, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines set forth in the UST Quality Assurance Program Plan (QAPP).

FIRST AGGRESSIVE FLUID VAPOR RECOVERY EVENT

A site visit was conducted at Shreejakshani (Former Pantry 911) on October 24, 2018 to locate/gauge monitoring wells and to evaluate current site conditions. MECI personnel commenced the first 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at Shreejakshani (Former Pantry 911) on October 29, 2018 and completed the event on November 2, 2018. The event was conducted on monitoring/recovery wells MW-3R, RW-3, and RW-6 to remove free phase petroleum product at the referenced site. Prior to the AFVR event, free phase petroleum product/water levels were gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

<i>First 96-Hour Pre-AFVR Well Data</i>			
<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
MW-3R	3.31	5.47	2.16
RW-3	2.15	6.76	4.61
RW-6	2.41	8.12	5.98

The event was continuously conducted for ninety-six hours (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded.

The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

<i>First 96-Hour Post-AFVR Well Data</i>			
<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
MW-3R	Not Detected	9.78	Not Detected
RW-3	Not Detected	10.60	Not Detected
RW-6	Not Detected	11.92	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 93.63% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 115.64 pounds or approximately 19.98 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.20 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 1,721 parts per million by volume (PPM) to 2,256 PPM. Vacuum readings were recorded at a range of 15.0 to 20.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in the attached Table 1A.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on the attached Figure 2.

SECOND AGGRESSIVE FLUID VAPOR RECOVERY EVENT

MECI personnel commenced the second 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at Shreejakshani (Former Pantry 911) on November 5, 2018 and completed the event on November 9, 2018. The event was conducted on monitoring/recovery wells MW-7RR, RW-1, and RW-5 to remove free phase petroleum product at the referenced site. Prior to the AFVR event, free phase petroleum product/water levels were gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

<i>Second 96-Hr. Pre-AFVR Well Data</i>			
<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
MW-7RR	6.51	7.11	0.60
RW-1	6.85	7.21	0.36
RW-5	6.68	7.03	0.35

The event was continuously conducted for ninety-six hours (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

<i>Post-AFVR Well Data</i>			
<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
MW-7RR	Not Detected	9.49	Not Detected
RW-1	Not Detected	9.14	Not Detected
RW-5	Not Detected	10.89	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 91.75% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 127.38 pounds or approximately 22.0 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.33 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 842.3 parts per million by volume (PPM) to 1,245 PPM. Vacuum readings were recorded at a range of 19.0 to 22.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in the attached Table 1B.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on the attached Figure 2.

DISPOSAL


A total of 6,453 gallons of liquid was removed from the site during the first 96-hour event. A total of 4,050 gallons of liquid were removed during the second 96-Hour event. A total of 10,503 gallons of liquid were removed during both events. Free Phase Petroleum product was not observed in the holding tanks at the end of the event. The fluids produced were transported to Regulatory Solutions, Inc. in Gaston, South Carolina for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI, Mr. Donnie Malphrus of Malphrus Industries, and the South Carolina Department of Health and Environmental Control, 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.

Midlands Environmental appreciates the opportunity to offer our professional environmental related 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.


Kyle V. Pudney
Project Biologist



Jeff L. Coleman
Senior Scientist

TABLE 1A
AFVR MONITORING DATA
SHREEJAKSHANI (FORMERLY PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 18-6661
SCDHEC SITE ID NUMBER 10628

Extraction Well	Date	Time	Differential Time	Extraction Well Head Vacuum	Off Gas Measurements						
					Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-3R	10/29/18	11:00	0.50	15.0	1,763	0.0	100.00%	770	69.30	1.47	0.73
RW-3	10/29/18	11:30	0.50	15.0	1,787	0.0	100.00%	830	74.70	1.60	0.80
RW-6	10/29/18	12:00	0.50	15.0	1,812	0.0	100.00%	840	75.60	1.64	0.82
▼	10/29/18	12:30	0.50	15.0	1,835	0.0	100.00%	870	78.30	1.72	0.86
▼	10/29/18	13:00	0.50	15.0	1,871	23.7	98.73%	910	81.90	1.84	0.92
▼	10/29/18	13:30	0.50	15.0	1,931	41.4	97.86%	940	84.60	1.96	0.98
▼	10/29/18	14:00	0.50	15.0	1,946	46.9	97.59%	930	83.70	1.95	0.98
▼	10/29/18	14:30	0.50	15.0	1,998	52.3	97.38%	900	81.00	1.94	0.97
▼	10/29/18	15:00	0.50	15.0	2,005	63.2	96.85%	840	75.60	1.82	0.91
▼	10/29/18	15:30	0.50	18.0	2,056	80.1	96.10%	830	74.70	1.84	0.92
▼	10/29/18	16:00	0.50	18.0	2,016	82.8	95.89%	800	72.00	1.74	0.87
▼	10/29/18	16:30	0.50	18.0	2,082	90.4	95.66%	760	68.40	1.71	0.85
▼	10/29/18	17:00	0.50	18.0	2,117	90.7	95.72%	770	69.30	1.76	0.88
▼	10/29/18	17:30	0.50	18.0	2,056	92.3	95.51%	820	73.80	1.82	0.91
▼	10/29/18	18:00	0.50	18.0	2,134	96.7	95.47%	850	76.50	1.96	0.98
Stinger Depth	10/29/18	18:30	0.50	18.0	2,178	105.1	95.17%	810	72.90	1.91	0.95
MW-3R = 11 Ft	10/29/18	19:00	0.50	18.0	2,183	104.3	95.22%	790	71.10	1.86	0.93
RW-3 = 11 Ft	10/29/18	20:00	1.00	18.0	2,238	111.3	95.03%	900	81.00	2.18	2.18
RW-6 = 14 Ft	10/29/18	21:00	1.00	18.0	2,214	126.6	94.28%	910	81.90	2.18	2.18
	10/29/18	22:00	1.00	18.0	2,256	131.8	94.16%	870	78.30	2.12	2.12
	10/29/18	23:00	1.00	18.0	2,243	148.1	93.40%	830	74.70	2.01	2.01
	10/30/18	0:00	1.00	18.0	2,236	157.8	92.94%	820	73.80	1.98	1.98
	10/30/18	8:00	2.00	15.0	1,755	265.3	84.88%	980	88.20	1.86	3.71
**	10/30/18	10:00	2.00	16.0	1,811	0.0	100.00%	920	82.80	1.80	3.60
	10/30/18	12:00	2.00	17.0	1,721	0.0	100.00%	860	77.40	1.60	3.20
Stinger Change	10/30/18	14:00	2.00	18.0	1,947	17.4	99.11%	820	73.80	1.72	3.45
MW-3R to 10 Ft	10/30/18	16:00	2.00	19.0	2,003	26.3	98.69%	900	81.00	1.95	3.89
RW-3 to 10 Ft	10/30/18	18:00	2.00	20.0	2,122	49.2	97.68%	810	72.90	1.86	3.71
RW-6 to 12 Ft	10/30/18	20:00	2.00	20.0	2,196	63.7	97.10%	780	70.20	1.85	3.70
	10/30/18	22:00	2.00	20.0	2,104	72.1	96.57%	740	66.60	1.68	3.36
	10/31/18	0:00	2.00	20.0	1,949	93.2	95.22%	770	69.30	1.62	3.24
	10/31/18	8:00	2.00	20.0	1,874	292.3	84.40%	720	64.80	1.46	2.91
	10/31/18	10:00	2.00	20.0	1,812	304.8	83.18%	840	75.60	1.64	3.29
**	10/31/18	12:00	2.00	20.0	2,045	0.0	100.00%	860	77.40	1.90	3.80
	10/31/18	14:00	2.00	20.0	1,649	0.0	100.00%	800	72.00	1.42	2.85
	10/31/18	16:00	2.00	20.0	1,778	0.0	100.00%	830	74.70	1.59	3.19
Stinger Change	10/31/18	18:00	2.00	20.0	1,910	19.4	98.98%	820	73.80	1.69	3.38
MW-3R to 8 Ft	10/31/18	20:00	2.00	20.0	1,832	32.7	98.22%	820	73.80	1.62	3.24
RW-3 to 8 Ft	10/31/18	22:00	2.00	20.0	1,885	50.1	97.35%	790	71.10	1.62	3.23
RW-6 to 10 Ft	11/01/18	0:00	2.00	18.0	1,928	66.4	96.56%	810	72.90	1.69	3.37
	11/01/18	8:00	2.00	18.0	1,911	152.3	92.03%	780	70.20	1.61	3.22
	11/01/18	10:00	2.00	18.0	1,931	176.4	90.86%	840	75.60	1.75	3.50
**	11/01/18	12:00	2.00	18.0	1,836	0.0	100.00%	810	72.90	1.61	3.21
	11/01/18	14:00	2.00	18.0	1,873	2.3	99.88%	830	74.70	1.68	3.36
Stinger Change	11/01/18	16:00	2.00	18.0	1,902	8.7	99.54%	890	80.10	1.83	3.66
MW-3R to 11 Ft	11/01/18	18:00	2.00	18.0	1,951	40.8	97.91%	850	76.50	1.79	3.58
RW-3 to 11 Ft	11/01/18	20:00	2.00	18.0	1,826	83.7	95.42%	860	77.40	1.70	3.39
RW-6 to 14 Ft	11/01/18	22:00	2.00	18.0	1,792	136.5	92.38%	880	79.20	1.70	3.41
	11/02/18	0:00	2.00	18.0	1,931	147.2	92.38%	820	73.80	1.71	3.42
	11/02/18	8:00	2.00	18.0	1,890	295.3	84.38%	810	72.90	1.65	3.31
	11/02/18	10:00	2.00	18.0	1,852	301.9	83.70%	830	74.70	1.66	3.32
	11/02/18	11:00	1.00	18.0	1,840	312.6	83.01%	820	73.80	1.63	1.63

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	to Water Change (ft)
MW-3R	2"	2-12	3.31	5.47	2.16	***	9.78	***	6.15
RW-3	4"	2-12	2.15	6.76	4.61	***	10.60	***	7.76
RW-6	4"	2-15	2.14	8.12	5.98	***	11.92	***	8.88

Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)	Recovery / Disposal Information			
Contractor:	MECI	MW-3R	6.00	Hydrocarbons Removed (vapor):		115.64	Pounds
Truck Operator:	C. Phillips	RW-3	7.00	Hydrocarbons Removed (liquid):		0	Gallons
	A. Huffman	RW-6	8.00	Total Hydrocarbons Removed:		19.98	Equivalent Gallons
	J. Phillips			Molecular Weight Utilized:		75	g / mole
	K. Jacobs			Total Liquids Removed		6,453	Gallons
Stack I.D. (feet)	0.33 feet			Disposal Facility		Regulatory Solutions, Inc.	
Notes:		Well ID	Final Stinger Depth (ft)	Average Treatment System Reduction Rate:		93.63%	
		MW-3R	11.00				
▼ = Stinger Depth Lowered 0.50 Feet		RW-3	11.00				
** = Changed Carbon for 80% Reduction Rate		RW-6	14.00				

TABLE 1B
AFVR MONITORING DATA
SHREEJAKSHANI (FORMERLY PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 18-6661
SCDHEC SITE ID NUMBER 10628

Extraction Well	Date	Time	Differential Time	Extraction Well Head Vacuum	Off Gas Measurements						
					Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
		(hh:mm)	(hr)	(in. Hg)							
MW-7RR	11/05/18	10:00	0.50	20.0	941.6	0.0	100.00%	860	77.40	0.87	0.44
RW-1	11/05/18	10:30	0.50	20.0	923.2	0.0	100.00%	920	82.80	0.92	0.46
RW-5 ▼	11/05/18	11:00	0.50	20.0	936.1	0.0	100.00%	880	79.20	0.89	0.44
▼	11/05/18	11:30	0.50	20.0	950.7	0.0	100.00%	960	86.40	0.99	0.49
▼	11/05/18	12:00	0.50	20.0	956.3	0.0	100.00%	880	79.20	0.91	0.45
▼	11/05/18	12:30	0.50	20.0	972.8	0.0	100.00%	920	82.80	0.97	0.48
▼	11/05/18	13:00	0.50	20.0	964.4	0.0	100.00%	1,080	97.20	1.12	0.56
▼	11/05/18	13:30	0.50	20.0	958.4	0.0	100.00%	1,020	91.80	1.06	0.53
▼	11/05/18	14:00	0.50	20.0	968.2	0.0	100.00%	1,160	104.40	1.21	0.61
▼	11/05/18	14:30	0.50	20.0	973.5	0.0	100.00%	1,180	106.20	1.24	0.62
▼	11/05/18	15:00	0.50	20.0	979.1	0.0	100.00%	1,160	104.40	1.23	0.61
▼	11/05/18	15:30	0.50	22.0	988.6	0.0	100.00%	1,220	109.80	1.30	0.65
▼	11/05/18	16:00	0.50	22.0	1,028	20.4	98.02%	1,220	109.80	1.35	0.68
▼	11/05/18	16:30	0.50	22.0	1,011	38.6	96.18%	1,060	95.40	1.16	0.58
▼	11/05/18	17:00	0.50	22.0	1,032	56.2	94.55%	1,280	115.20	1.43	0.71
▼	11/05/18	17:30	0.50	22.0	1,053	72.3	93.13%	1,380	122.40	1.55	0.77
▼	11/05/18	18:00	0.50	22.0	1,068	84.2	92.12%	1,380	124.20	1.59	0.80
▼	11/05/18	19:00	1.00	22.0	1,055	92.6	91.22%	1,420	127.80	1.62	0.82
Stinger Depth	11/05/18	19:00	1.00	22.0	1,087	103.8	90.45%	1,480	133.20	1.74	0.86
MW-7RR = 11 Ft	11/05/18	20:00	1.00	22.0	1,104	121.9	88.96%	1,560	140.40	1.86	0.92
RW-1 = 11 Ft	11/05/18	21:00	1.00	22.0	1,133	132.5	88.31%	1,620	145.80	1.98	0.98
RW-5 = 14 Ft	11/05/18	22:00	1.00	22.0	1,152	138.2	88.00%	1,680	151.20	2.09	1.05
	11/06/18	0:00	1.00	22.0	1,146	154.1	86.55%	1,760	158.40	2.18	1.10
	11/06/18	8:00	2.00	22.0	1,172	162.3	86.15%	1,730	155.70	2.19	1.10
	11/06/18	10:00	2.00	22.0	1,145	185.6	83.79%	1,750	157.50	2.16	1.10
**	11/06/18	12:00	2.00	22.0	1,214	0.0	100.00%	1,690	152.10	2.22	1.12
Stinger Change	11/06/18	14:00	2.00	22.0	1,187	0.0	100.00%	1,720	154.80	2.20	1.12
MW-7RR to 10 Ft	11/06/18	16:00	2.00	22.0	1,130	0.0	100.00%	1,700	153.00	2.07	1.05
RW-1 to 10 Ft	11/06/18	18:00	2.00	22.0	1,236	19.7	98.41%	1,680	151.20	2.24	1.10
RW-5 to 13 Ft	11/06/18	20:00	2.00	21.0	1,187	27.3	97.70%	1,710	153.90	2.19	1.08
	11/06/18	22:00	2.00	20.0	1,079	41.2	96.18%	1,770	159.30	2.06	1.03
	11/07/18	0:00	2.00	20.0	1,123	43.2	96.15%	1,740	156.60	2.11	1.05
Stinger Change	11/07/18	8:00	2.00	19.0	1,245	48.5	96.10%	1,670	150.30	2.25	1.09
MW-7RR to 9 Ft	11/07/18	10:00	2.00	19.0	1,202	57.1	95.25%	1,540	138.60	2.00	0.95
RW-1 to 9 Ft	11/07/18	12:00	2.00	19.0	1,173	64.2	94.53%	1,620	145.80	2.05	0.98
RW-5 to 12 Ft	11/07/18	14:00	2.00	19.0	1,147	74.2	93.53%	1,700	153.00	2.11	1.01
	11/07/18	16:00	2.00	19.0	1,213	80.3	93.38%	1,660	149.40	2.17	1.04
	11/07/18	18:00	2.00	19.0	1,197	87.4	92.70%	1,600	144.00	2.07	0.98
	11/07/18	20:00	2.00	19.0	1,153	83.2	91.92%	1,540	138.60	1.92	0.92
	11/07/18	22:00	2.00	19.0	1,024	87.4	91.46%	1,550	139.50	1.71	0.81
	11/08/18	0:00	2.00	19.0	1,098	103.7	90.56%	1,510	135.90	1.79	0.84
	11/08/18	8:00	2.00	19.0	901.2	109.2	87.88%	1,570	141.30	1.53	0.72
Stinger Change	11/08/18	10:00	2.00	19.0	842.3	120.5	85.69%	1,580	142.20	1.44	0.68
MW-7RR to 11 Ft	11/08/18	12:00	2.00	19.0	923.7	122.3	86.76%	1,590	143.10	1.59	0.75
RW-1 to 11 Ft	11/08/18	14:00	2.00	19.0	1,057	130.1	87.68%	1,510	135.90	1.72	0.81
RW-5 to 14 Ft	11/08/18	16:00	2.00	19.0	1,015	133.9	86.81%	1,550	139.50	1.70	0.79
	11/08/18	18:00	2.00	19.0	1,162	136.2	88.28%	1,590	143.10	2.00	0.95
	11/08/18	20:00	2.00	19.0	1,047	140.2	86.61%	1,580	142.20	1.79	0.84
	11/08/18	22:00	2.00	19.0	1,003	142.9	85.75%	1,600	144.00	1.73	0.81
	11/09/18	0:00	2.00	19.0	1,126	145.1	87.11%	1,590	143.10	1.93	0.91
	11/09/18	8:00	2.00	19.0	1,207	146.7	87.85%	1,580	142.20	2.06	0.97
	11/09/18	10:00	2.00	19.0	1,196	157.9	86.80%	1,580	142.20	2.04	0.96
Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)		
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)			
MW-7RR	2"	2-12	6.51	7.11	0.60	***	9.49	***			2.89
RW-1	4"	2-12	6.85	7.21	0.36	***	9.14	***			1.93
RW-5	4"	2-15	6.68	7.03	0.35	***	10.89	***			3.86
Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)		Recovery / Disposal Information						
Contractor:	MECI	MW-7RR	7.00		Hydrocarbons Removed (vapor):		127.38	Pounds			
Truck Operator:	C. Phillips	RW-1	7.00		Hydrocarbons Removed (liquid):		0	Gallons			
	A. Huffman	RW-5	7.00		Total Hydrocarbons Removed:		22.00	Equivalent Gallons			
	J. Phillips				Molecular Weight Utilized:		75	g / mole			
	K. Jacobs				Total Liquids Removed		4,050	Gallons			
Stack I.D. (feet)	0.33 feet				Disposal Facility		Regulatory Solutions, Inc.				
Notes:		Well ID	Final Stinger Depth (ft)		Average Treatment System Reduction Rate:			91.75%			
		MW-7RR	11.00								
		RW-1	11.00								
		RW-5	14.00								
▼ = Stinger Depth Lowered 0.50 Feet											
** = Changed Carbon for 80% Reduction Rate											

**TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SHREEJAKSHANI (FORMER PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 18-6661
SCDHEC SITE ID NUMBER 10628**

DIFFERENTIAL PRESSURE DATA			
		MW-4R	MW-14
Nearest Extraction Well:		RW-3	RW-6
Approximate Distance:		56 ft	16 ft
Time	Elapsed Time		
Prior to AFVR		0.0	0.0
11:00	0.0	0.0	0.0
11:30	0.5	0.0	1.0
12:00	1.0	0.0	1.0
12:30	1.5	0.0	1.0
13:00	2.0	0.0	1.0
13:30	2.5	0.0	1.0
14:00	3.0	0.0	1.0
14:30	3.5	0.0	1.0
15:00	4.0	0.0	1.0
15:30	4.5	0.0	1.0
16:00	5.0	0.0	2.0
16:30	5.5	0.0	2.0
17:00	6.0	0.0	2.0
17:30	6.5	0.0	2.0
18:00	7.0	0.0	2.0
18:30	7.5	0.0	2.0
19:00	8.0	0.0	2.0
20:00	9.0	0.0	2.0
21:00	10.0	0.0	2.0
22:00	11.0	0.0	2.0
23:00	12.0	0.0	2.0
0:00	13.0	0.0	2.0
8:00	21.0	0.0	2.0
10:00	23.0	0.0	2.0
12:00	25.0	0.0	2.0
14:00	27.0	0.0	2.0
16:00	29.0	0.0	2.0
18:00	31.0	0.0	2.0
20:00	33.0	0.0	3.0
22:00	35.0	0.0	3.0
0:00	37.0	0.0	3.0
8:00	45.0	0.0	3.0
10:00	47.0	0.0	3.0
12:00	49.0	0.0	2.0
14:00	51.0	0.0	2.0
16:00	53.0	0.0	2.0
18:00	55.0	0.0	2.0
20:00	57.0	0.0	2.0
22:00	59.0	0.0	2.0
0:00	61.0	0.0	2.0
8:00	69.0	0.0	2.0
10:00	71.0	0.0	2.0
12:00	73.0	0.0	2.0
14:00	75.0	0.0	2.0
16:00	77.0	0.0	2.0
18:00	79.0	0.0	2.0
20:00	81.0	0.0	2.0
22:00	83.0	0.0	2.0
0:00	85.0	0.0	2.0
8:00	93.0	0.0	2.0
10:00	95.0	0.0	2.0
11:00	96.0	0.0	2.0
Maximum Change:		0.0	3.0
GROUNDWATER DRAWDOWN DATA			
		MW-4R	MW-14
Nearest Extraction Well:		RW-3	RW-6
Approximate Distance:		56 ft	16 ft
Time	Elapsed Time		
Prior to AFVR		3.16	5.40
15:00	4 hours	3.23	5.45
19:00	8 hours	3.26	5.49
23:00	12 hours	3.28	5.52
3:00	16 hours	***	***
7:00	20 hours	***	***
8:00	21 hours	3.30	5.57
12:00	25 hours	3.31	5.57
16:00	29 hours	3.33	5.59
20:00	33 hours	3.34	5.59
0:00	37 hours	3.37	5.60
4:00	41 hours	***	***
8:00	45 hours	3.52	5.73
12:00	49 hours	3.55	5.76
16:00	53 hours	3.63	5.82
20:00	57 hours	3.68	5.88
0:00	61 hours	3.73	5.92
4:00	65 hours	***	***
8:00	69 hours	3.85	6.01
12:00	73 hours	3.88	6.06
16:00	77 hours	3.95	6.13
20:00	81 hours	4.06	6.27
0:00	85 hours	4.10	6.35
4:00	89 hours	***	***
8:00	93 hours	4.37	6.39
11:00	96 hours	4.43	6.45
Maximum Change:		-1.27	-1.05

*** = Readings Not Required Between 12AM & 8AM per QAPP

**TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SHREEJAKSHANI (FORMER PANTRY 911)
HARDEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 18-6661
SCDHEC SITE ID NUMBER 10628**

DIFFERENTIAL PRESSURE DATA			
		MW-15	RW-4
Nearest Extraction Well:		RW-1	MW-7RR
Approximate Distance:		82 ft	11 ft
Time	Elapsed Time		
Prior to AFVR		0.0	0.0
10:00	0.0	0.0	1.0
10:30	0.5	0.0	1.0
11:00	1.0	0.0	1.0
11:30	1.5	0.0	1.0
12:00	2.0	0.0	1.0
12:30	2.5	0.0	2.0
13:00	3.0	0.0	2.0
13:30	3.5	0.0	2.0
14:00	4.0	0.0	2.0
14:30	4.5	0.0	2.0
15:00	5.0	0.0	2.0
15:30	5.5	0.0	2.0
16:00	6.0	0.0	2.0
16:30	6.5	0.0	2.0
17:00	7.0	0.0	2.0
17:30	7.5	0.0	2.0
18:00	8.0	0.0	2.0
19:00	9.0	0.0	2.0
20:00	10.0	0.0	1.0
21:00	11.0	0.0	1.0
22:00	12.0	0.0	1.0
23:00	13.0	0.0	1.0
0:00	14.0	0.0	1.0
8:00	22.0	0.0	1.0
10:00	24.0	0.0	1.0
12:00	26.0	0.0	1.0
14:00	28.0	0.0	1.0
16:00	30.0	0.0	1.0
18:00	32.0	0.0	1.0
20:00	34.0	0.0	1.0
22:00	36.0	0.0	2.0
0:00	38.0	0.0	2.0
8:00	46.0	0.0	2.0
10:00	48.0	0.0	2.0
12:00	50.0	0.0	2.0
14:00	52.0	0.0	2.0
16:00	54.0	0.0	2.0
18:00	56.0	0.0	2.0
20:00	58.0	0.0	2.0
22:00	60.0	0.0	2.0
0:00	62.0	0.0	2.0
8:00	70.0	0.0	2.0
10:00	72.0	0.0	2.0
12:00	74.0	0.0	2.0
14:00	76.0	0.0	2.0
16:00	78.0	0.0	2.0
18:00	80.0	0.0	2.0
20:00	82.0	0.0	3.0
22:00	84.0	0.0	3.0
0:00	86.0	0.0	3.0
8:00	94.0	0.0	3.0
10:00	96.0	0.0	3.0
Maximum Change:		0.0	3.0
GROUNDWATER DRAWDOWN DATA			
		MW-15	RW-4
Nearest Extraction Well:		RW-1	MW-7RR
Approximate Distance:		82 ft	11 ft
Time	Elapsed Time		
Prior to AFVR		3.52	7.01
14:00	4 hours	3.55	7.36
18:00	8 hours	3.61	7.68
22:00	12 hours	3.64	7.83
2:00	16 hours	***	***
6:00	20 hours	***	***
10:00	24 hours	4.00	8.10
14:00	28 hours	4.01	8.12
18:00	32 hours	4.09	8.16
22:00	36 hours	4.22	8.19
2:00	40 hours	***	***
6:00	44 hours	***	***
10:00	48 hours	5.63	8.47
14:00	52 hours	5.88	8.50
18:00	56 hours	5.71	8.54
22:00	60 hours	5.74	8.56
2:00	64 hours	***	***
6:00	68 hours	***	***
10:00	72 hours	5.83	8.85
14:00	76 hours	5.86	8.89
18:00	80 hours	5.88	8.91
22:00	84 hours	5.89	8.91
2:00	88 hours	***	***
6:00	92 hours	***	***
10:00	96 hours	5.91	8.94
Maximum Change:		-2.39	-1.93

*** = Readings Not Required Between 12AM & 8AM per QAPP

AFVR CALIBRATION LOG

Site Name Sheejakshani (Former Pantry 911)
MECI # 18-6661
Date 10/29/2018-11/2/2018
Field Personnel A.H., J.P., K.J., C.P.
Serial # 592-902491

Hours	Time	Zero Cal.	Span Cal.
0	11:00	0.0	100.5
8	19:00	0.0	100.2
16	3:00	***	***
24	11:00	0.0	100.3
32	19:00	0.0	100.1
40	3:00	***	***
48	11:00	0.0	100.0
56	19:00	0.0	100.1
64	3:00	***	***
72	11:00	0.0	100.2
80	19:00	0.0	100.1
88	3:00	***	***
96	11:00	0.0	100.0

Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.

*** = Readings not required between 12am & 8am per QAPP.

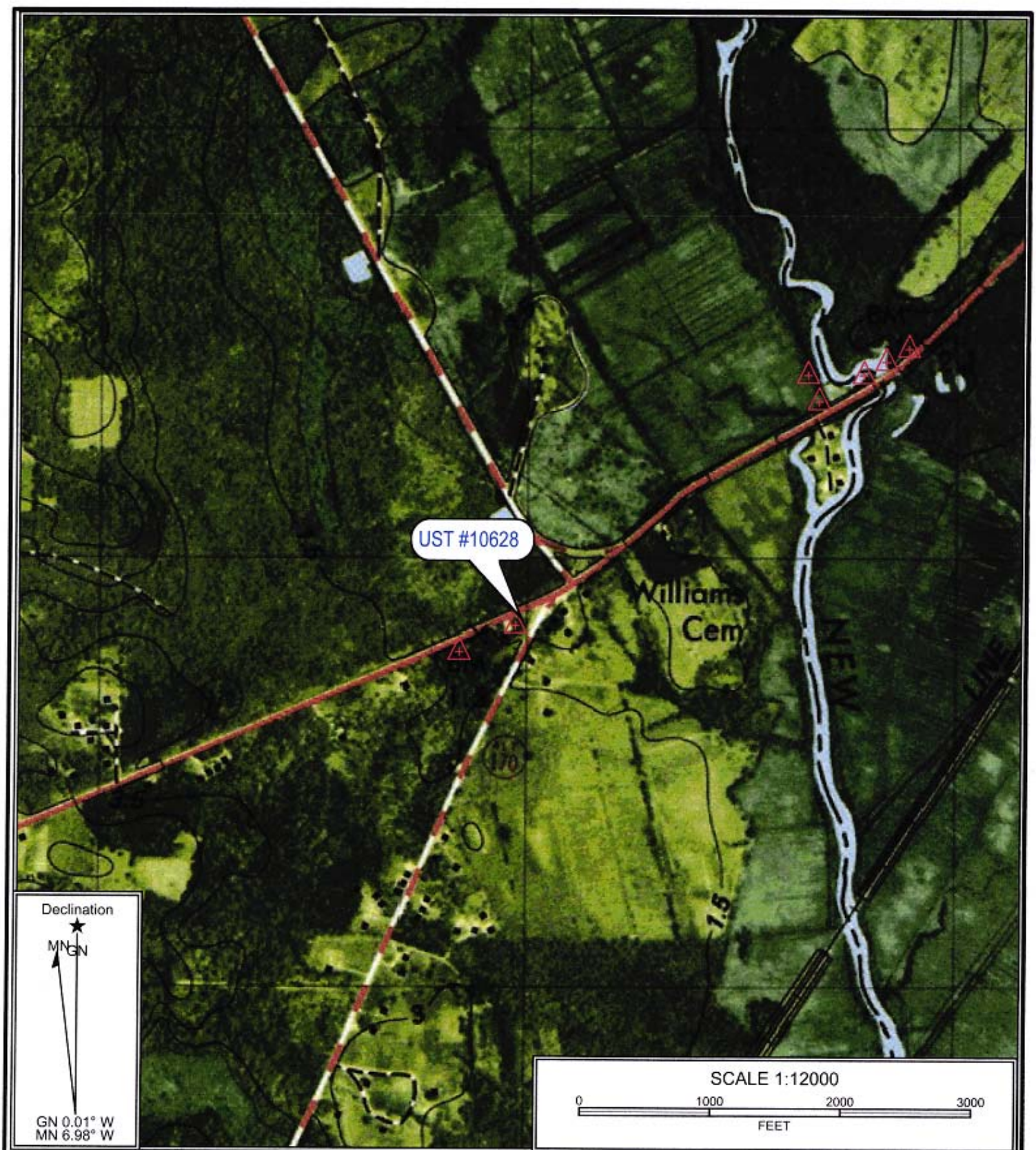
AFVR CALIBRATION LOG

Site Name Sheejakshani (Former Pantry 911)
MECI # 18-6661
Date 11/5/2018-11/9/2018
Field Personnel A.H., J.P., K.J., C.P.
Serial # 592-902491

Hours	Time	Zero Cal.	Span Cal.
0	10:00	0.0	100.1
8	18:00	0.0	101.3
16	2:00	***	***
24	10:00	0.0	100.8
32	18:00	0.0	100.5
40	2:00	***	***
48	10:00	0.0	100.7
56	18:00	0.0	101.1
64	2:00	***	***
72	10:00	0.0	100.4
80	18:00	0.0	100.2
88	2:00	***	***
96	10:00	0.0	99.9

Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.

*** = Readings not required between 12am & 8am per QAPP.



UST #10628

Williams Cem

7.5

Declination
 GN
 MN
 GN 0.01° W
 MN 6.98° W

SCALE 1:12000
 0 1000 2000 3000
 FEET

Reference: Limehouse and Hardeeville, South Carolina
 Jasper and Pritchardville, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval-1.5 Meters

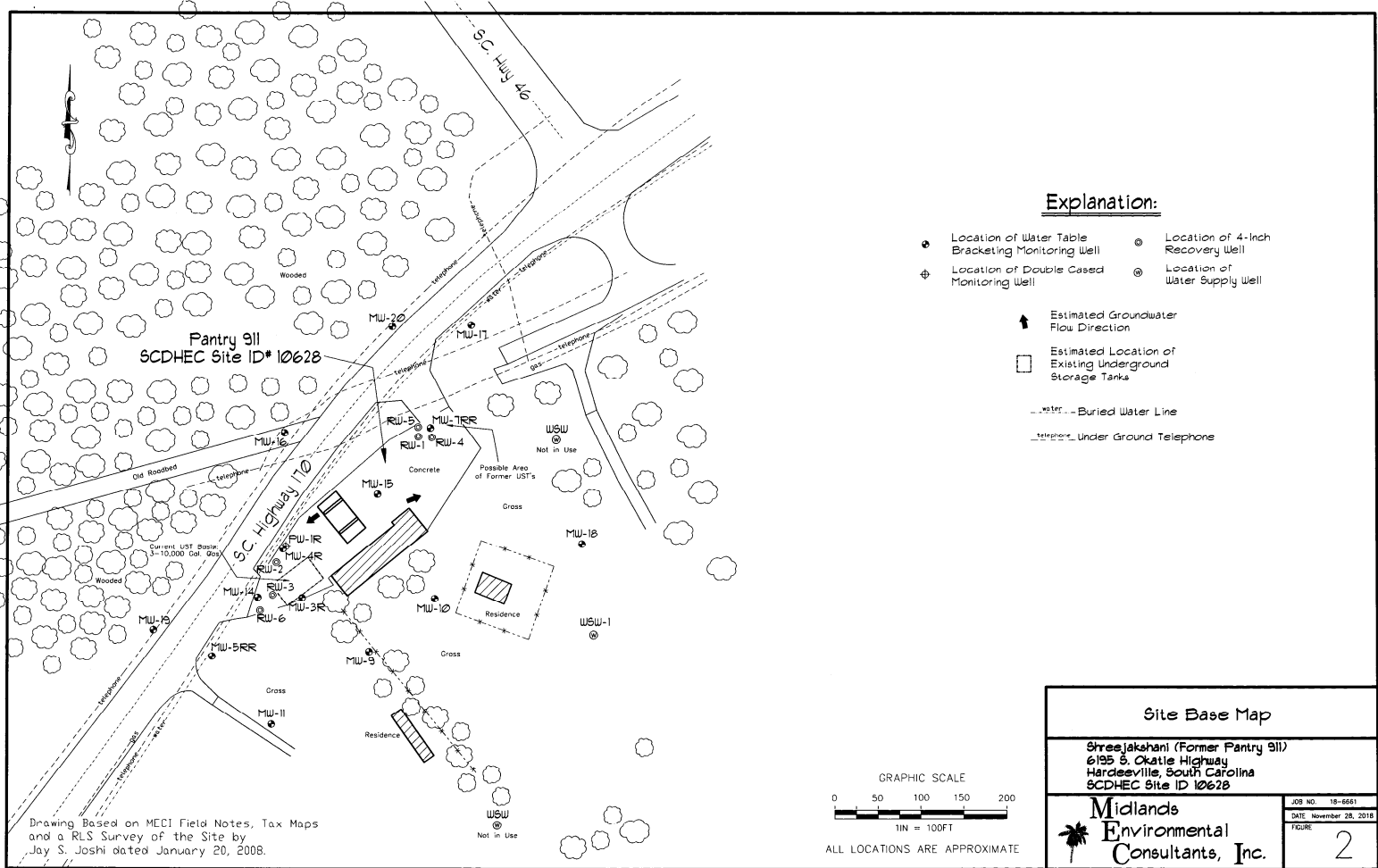
Midlands
 Environmental
 Consultants, Inc.

Site Location

Pantry 911
 6195 South Okatie Highway, Hardeeville, SC
 SCDHEC Site ID* 10628

Figure 1

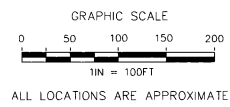
MECI 18-6661



Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased Monitoring Well
- ⊙ Location of 4-inch Recovery Well
- ⊗ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Buried Water Line
- - - Under Ground Telephone

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.



Site Base Map	
Shreejakhani (Former Pantry 911) 6195 S. Okatie Highway Hardeeville, South Carolina SCDHEC Site ID 10628	
	JOB NO. 15-6661 DATE November 28, 2018 FIGURE 2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

803-926-0089

27954

5. Generator's Name and Mailing Address :

Generator's Site Address (if different than mailing address)

Midlands Environmental Consultant
P.O. Box 834
Lexington, SC 29071-

Generator's Phone: 803-908-2043

6. Transporter 1 Company Name

U.S. EPA ID Number

Regulatory Solutions, Inc

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

Facility's Phone: 803-926-0089

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045

1

TT

6453

g

13. Special Handling Instructions and Additional Information

Hardeeville First Event First Pull

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

15. International Shipments Import to U.S.

Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

Willie Spence

W. Spence

11 | 1 | 18

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Signature

Month Day Year

Kyle Jacobs

Justin Conley

[Signature]

10 | 1 | 18

(GENERATOR SIGNED UP IN ERROR)

01:37 PM Nov/01/2018
TRUCK ID:11668
GROSS 81420 LB
TARE LB
NET LB

02:48 PM Nov/01/2018
TRUCK ID:11668
GROSS 81420 LB
TARE 27600 LB
NET 53820 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands
GENERATOR: Hardenville AFRK 2nd Event Only Pull
TRUCK/CONTAINER #: TR01 / TK01
MANIFEST #: 27954

WEIGHER (INITIALS): JMG

11668

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-926-0089	4. Waste Tracking Number 28007		
5. Generator's Name and Mailing Address Midlands Environmental Consultant P.O. Box 834 Lexington, SC 29071-		Generator's Site Address (if different than mailing address)				
Generator's Phone: 803-808-2643						
6. Transporter 1 Company Name Regulatory Solutions, Inc			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Regulatory Solutions, Inc. 40 Pascon Court Gaston, SC 29053-			U.S. EPA ID Number			
Facility's Phone: 803-926-0089						
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	4050	g
	2.					
	3.					
13. Special Handling Instructions and Additional Information Hardenville 2nd Event Only Full						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name Kyle V. Pudney		Signature <i>[Signature]</i>		Month	Day	Year
				11	9	18
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Willie Spencer		Signature <i>[Signature]</i>		Month	Day	Year
				11	9	18
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator)			Month Day Year			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a						
Printed/Typed Name Justin Conley		Signature <i>[Signature]</i>		Month	Day	Year
				11	9	18

11:16 AM Nov/09/2018
TRUCK ID:11675
GROSS 60340 LB
TARE LB
NET LB

12:23 PM Nov/09/2018
TRUCK ID:11675
GROSS 60340 LB
TARE 26560 LB
NET 33780 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands
GENERATOR: Hardeeville AFUR 2nd Event Only Pull
TRUCK/CONTAINER #: TK01 / TK-07
MANIFEST #: 28007

WEIGHER (INITIALS): JMC

11675



Healthy People. Healthy Communities.



**MR DONNIE MALPHRUS
MALPHRUS ENTERPRISES
2788 NORTH OKATIE HIGHWAY
RIDGELAND SC 29936**

MAR 07 2019

Re: **Aggressive Fluid and Vapor Recovery (AFVR) Notice to Proceed**
Shreejakshani Llc Db a Okatie Mart, 6195 South Okatie Highway, Hardeeville, SC
UST Permit #10628; CA #59098
Release reported April 28, 1995
Aggressive Fluid Vapor Recovery Report received December 13, 2018
Jasper County

Dear Mr. Malphrus:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (COC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). Two 96-hour events should be performed. First event should utilize monitoring wells RW-3, RW-6, and MW-3 and the second event should utilize RW-1, RW-5, and MW-7RR. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 15 feet in the wells. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the DHEC QAPP for the Underground Storage Tank Division is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact me at butlerkh@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. 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.

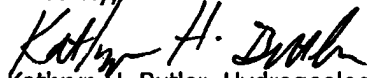
Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the 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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC 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, DHEC 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.

DHEC 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 RBSLs, 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 RBSLs.

On all correspondence concerning this site, please reference UST Permit #10628. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0606, by fax at (803) 898-0673, or by e-mail at butlerkh@dhec.sc.gov.

Sincerely,



Kathryn H. Butler, Hydrogeologist
Corrective Action & Field Support
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Midlands Environmental Consultants, Inc., PO BOX 854, Lexington, SC 29071 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 59098

Facility: 10628 SHREEJAKSHANI LLC DBA OKATIE MART
BUTLERKH

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	\$45,281.250	5,433.75
23	EFR	A4 96 HOUR EVENT	2.0000	\$12,567.500	25,135.00
		C4 OFF GAS TREATMENT 96 HOUR	2.0000	\$780.000	1,560.00
		D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
		F1 EFFLUENT DISPOSAL	40,000.0000	\$0.440	17,600.00
		G AFVR EQUIPMENT MOB	2.0000	\$391.500	783.00
Total Amount					50,715.00



May 17, 2019



Ms. Kathryn H. Butler, Hydrogeologist
Corrective Action & Field Support
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: Aggressive Fluid Vapor Recovery Report
Shreejakshani (Former Pantry 911)
6195 Okatie Highway
Hardeeville, South Carolina
SCDHEC Site ID # 10628; CA # 59098
MECI Project Number 19-6851
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Butler,

On behalf of Mr. Donnie Malphrus of Malphrus Industries, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines set forth in the UST Quality Assurance Program Plan (QAPP).

FIRST AGGRESSIVE FLUID VAPOR RECOVERY EVENT

A site visit was conducted at Shreejakshani (Former Pantry 911) on March 21, 2019 to locate/gauge monitoring wells and to evaluate current site conditions. MECI personnel commenced the first 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at Shreejakshani (Former Pantry 911) on April 1, 2019 and completed the event on April 5, 2019. The event was conducted on monitoring/recovery wells MW-3R, RW-3, and RW-6 to remove free phase petroleum product at the referenced site. Prior to the AFVR event, free phase petroleum product/water levels were gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

First 96-Hour Pre-AFVR Well Data			
Well ID#	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)
MW-3R	2.53	4.39	1.86
RW-3	1.72	2.34	0.62
RW-6	1.46	8.39	6.93

The event was continuously conducted for ninety-six hours (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded.

The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

First 96-Hour Post-AFVR Well Data			
Well ID#	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)
MW-3R	Not Detected	6.52	Not Detected
RW-3	Not Detected	6.25	Not Detected
RW-6	Not Detected	6.39	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 97.26% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 223.52 pounds or approximately 38.61 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 2.33 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 674.2 parts per million by volume (PPM) to 2,751 PPM. Vacuum readings were recorded at a range of 19.0 to 25.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in the attached Table 1A.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on the attached Figure 2.

SECOND AGGRESSIVE FLUID VAPOR RECOVERY EVENT

MECI personnel commenced the second 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at Shreejakshani (Former Pantry 911) on April 8, 2019 and completed the event on April 12, 2019. The event was conducted on monitoring/recovery wells MW-7RR, RW-1, and RW-5 to remove free phase petroleum product at the referenced site. Prior to the AFVR event, free phase petroleum product/water levels were gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

Second 96-Hr. Pre-AFVR Well Data			
Well ID#	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)
MW-7RR	5.56	5.60	0.04
RW-1	5.39	5.60	0.21
RW-5	5.52	6.17	0.65

The event was continuously conducted for ninety-six hours (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

Post-AFVR Well Data			
Well ID#	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)
MW-7RR	Not Detected	11.41	Not Detected
RW-1	Not Detected	10.65	Not Detected
RW-5	Not Detected	8.92	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 95.72% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 257.51 pounds or approximately 44.48 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 2.68 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 1,782 parts per million by volume (PPM) to 4,253 PPM. Vacuum readings were recorded at a range of 25.0 to 27.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in the attached Table 1B.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on the attached Figure 2.

DISPOSAL

A total of 10,539 gallons of liquid was removed from the site during the first 96-hour event. A total of 3,575 gallons of liquid were removed during the second 96-Hour event. A total of 14,114 gallons of liquid were removed during both events. Free Phase Petroleum product was not observed in the holding tanks at the end of the event. The fluids produced were transported to Regulatory Solutions, Inc. in Gaston, South Carolina for disposal. A disposal manifest for these fluids is attached at the end of this report.

RECOMMENDATIONS

Prior to future AFVR events, MECI feels that direct injection of surfactant amended water into the previously installed recovery wells is necessary. If free phase petroleum product continues to show up during groundwater sampling events, the direct injection of surfactant amended water will benefit the remedial efforts. The surfactant amended water will bring hydrocarbons into an oil-in-

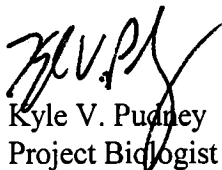
water microemulsion which will increase the effective solubility of the petroleum hydrocarbons in water and will aid in reducing the inter-facial tension between the hydrocarbon and water molecules. This increased effective solubility and reduced inter-facial tension will promote a formation of an aqueous solution between the free product and the groundwater, augmenting hydrocarbon recovery via the recovery well network. MECI has previously used direct injection of Crystal Simple Green® (Surfactant) amended water. Crystal Simple Green® (Surfactant) is cost effective and has produced favorable results. Direct injection of surfactant would take place approximately one to two weeks prior to the extended AFVR events in order to allow for proper stabilization.

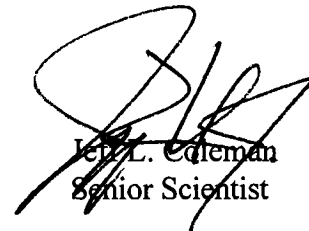
QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI, Mr. Donnie Malphrus of Malphrus Industries, and the South Carolina Department of Health and Environmental Control, 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.

Midlands Environmental appreciates the opportunity to offer our professional environmental related 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.


Kyle V. Pudney
Project Biologist


Jeff L. Edleman
Senior Scientist

**TABLE 1A
AFVR MONITORING DATA
SHREEJAKSHANI (FORMERLY PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6851
SCDHEC SITE ID NUMBER 10628**

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements						
					Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-3R	04/01/19	9:00	0.50	24.0	674.2	0.0	100.00%	940	84.60	0.68	0.34
RW-3▼	04/01/19	9:30	0.50	24.0	788.4	0.0	100.00%	960	86.40	0.82	0.41
RW-6▼	04/01/19	10:00	0.50	24.0	802.3	0.0	100.00%	890	80.10	0.77	0.38
▼	04/01/19	10:30	0.50	24.0	857.2	0.0	100.00%	890	80.10	0.82	0.41
▼	04/01/19	11:00	0.50	24.0	841.2	0.0	100.00%	920	82.80	0.84	0.42
▼	04/01/19	11:30	0.50	24.0	879.6	0.0	100.00%	930	83.70	0.88	0.44
▼	04/01/19	12:00	0.50	24.0	955.3	0.0	100.00%	930	83.70	0.96	0.48
▼	04/01/19	12:30	0.50	24.0	1,167	0.0	100.00%	900	81.00	1.13	0.57
▼	04/01/19	13:00	0.50	24.0	1,322	0.0	100.00%	940	84.60	1.34	0.67
▼	04/01/19	13:30	0.50	24.0	1,464	0.0	100.00%	950	85.50	1.50	0.75
▼	04/01/19	14:00	0.50	24.0	1,523	2.9	99.81%	920	82.80	1.51	0.76
▼	04/01/19	14:30	0.50	24.0	1,511	4.3	99.72%	920	82.80	1.50	0.75
▼	04/01/19	15:00	0.50	24.0	1,831	13.7	99.16%	910	81.60	1.60	0.80
▼	04/01/19	15:30	0.50	24.0	1,854	20.4	98.77%	900	81.00	1.61	0.80
▼	04/01/19	16:00	0.50	24.0	1,997	25.9	98.38%	920	82.80	1.59	0.79
▼	04/01/19	16:30	0.50	24.0	1,582	31.6	98.00%	930	83.70	1.59	0.79
▼	04/01/19	17:00	0.50	24.0	1,510	42.3	97.20%	950	85.50	1.55	0.77
▼	04/01/19	18:00	1.00	24.0	1,673	59.2	96.46%	960	86.40	1.73	1.73
Stinger Depth	04/01/19	19:00	1.00	24.0	1,941	64.3	96.08%	960	86.40	1.70	1.70
MW-3R = 11 Ft	04/01/19	20:00	1.00	24.0	1,992	72.1	95.74%	980	88.20	1.79	1.79
RW-3 = 11 Ft	04/01/19	21:00	1.00	24.0	1,997	90.7	94.32%	960	86.10	1.71	1.71
RW-6 = 14 Ft	04/01/19	22:00	1.00	24.0	1,728	138.7	91.67%	960	86.40	1.79	1.79
	04/01/19	23:00	1.00	24.0	1,863	214.2	86.50%	970	87.30	1.95	1.95
**	04/02/19	0:00	1.00	24.0	2,015	296.4	85.28%	1,000	90.00	2.18	2.18
	04/02/19	8:00	6.00	24.0	2,123	395.2	81.38%	1,010	90.80	2.32	18.53
	04/02/19	10:00	2.00	24.0	1,972	0.0	100.00%	1,020	91.80	2.17	4.34
	04/02/19	12:00	2.00	20.0	2,088	10.6	99.49%	1,220	109.80	2.76	5.52
	04/02/19	14:00	2.00	19.0	2,122	25.6	98.79%	1,270	114.30	2.91	5.82
Stinger Change	04/02/19	16:00	2.00	19.0	2,347	40.1	98.28%	1,220	109.80	3.09	6.18
MW-3R to 10 Ft	04/02/19	18:00	2.00	19.0	2,581	67.3	97.39%	1,270	114.30	3.54	7.08
RW-3 to 10 Ft	04/02/19	20:00	2.00	19.0	2,602	72.9	97.20%	1,270	114.30	3.57	7.14
RW-6 to 12 Ft	04/02/19	22:00	2.00	19.0	2,688	186.2	93.07%	1,190	107.10	3.45	6.91
	04/03/19	0:00	2.00	19.0	2,751	201.5	92.88%	1,210	108.90	3.60	7.19
	04/03/19	8:00	8.00	19.0	2,525	462.4	81.89%	1,240	111.60	3.38	27.05
**	04/03/19	10:00	2.00	20.0	1,576	0.0	100.00%	1,170	105.30	1.99	3.98
	04/03/19	12:00	2.00	23.0	2,148	0.0	100.00%	1,190	107.10	2.76	5.52
	04/03/19	14:00	2.00	24.0	1,820	0.0	100.00%	1,250	112.50	2.46	4.91
	04/03/19	16:00	2.00	24.0	1,997	0.0	100.00%	1,220	109.80	2.63	5.26
	04/03/19	18:00	2.00	24.0	1,890	0.0	100.00%	1,230	110.70	2.51	5.02
Stinger Change	04/03/19	20:00	2.00	23.0	2,051	0.0	100.00%	1,180	106.20	2.61	5.23
MW-3R to 8 Ft	04/03/19	22:00	2.00	22.0	1,783	0.0	100.00%	1,150	103.50	2.21	4.43
RW-3 to 8 Ft	04/04/19	0:00	2.00	22.0	1,691	0.0	100.00%	1,130	101.70	2.08	4.13
RW-6 to 10 Ft	04/04/19	8:00	8.00	21.0	1,175	0.0	100.00%	1,180	106.20	1.50	11.68
	04/04/19	10:00	2.00	23.0	1,158	3.5	99.70%	1,220	109.80	1.53	3.05
	04/04/19	12:00	2.00	23.0	1,263	5.2	99.59%	1,180	104.40	1.58	3.16
	04/04/19	14:00	2.00	24.0	1,730	8.1	99.53%	1,150	103.50	2.15	4.30
	04/04/19	16:00	2.00	25.0	1,406	7.3	99.48%	1,190	107.10	1.81	3.61
Stinger Change	04/04/19	18:00	2.00	24.0	2,293	16.8	99.27%	1,240	111.60	3.07	6.14
MW-3R to 11 Ft	04/04/19	20:00	2.00	23.0	2,040	89.4	95.62%	1,170	105.30	2.58	5.16
RW-3 to 11 Ft	04/04/19	22:00	2.00	23.0	2,117	90.8	95.71%	1,160	104.40	2.65	5.30
RW-6 to 14 Ft	04/05/19	0:00	2.00	23.0	2,246	93.2	95.85%	1,190	107.10	2.89	5.77
	04/05/19	8:00	8.00	23.0	2,161	98.7	95.47%	1,230	110.70	2.90	23.18
	04/05/19	9:00	1.00	23.0	2,105	100.6	95.22%	1,230	110.70	2.80	2.80
Well Data:				Pre-AFVR Event			Post-AFVR Event			Corrected Depth	
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	to Water Change (ft)		
MW-3R	2"	2-12	2.53	4.39	1.86	***	6.52	***	3.71		
RW-3	4"	2-12	1.72	2.34	0.82	***	6.25	***	4.44		
RW-6	4"	2-15	1.46	8.39	6.93	***	6.39	***	3.99		
Vacuum Truck Information			Well ID	Initial Stinger Depth (ft)	Recovery / Disposal Information						
Contractor:	MECI	MW-3R	4.50	Hydrocarbons Removed (vapor): 223.52 Pounds Hydrocarbons Removed (liquid): 0 Gallons Total Hydrocarbons Removed: 38.61 Equivlant Gallons Molecular Weight Utilized: 75 g / mole Total Liquids Removed 10,539 Gallons Disposal Facility Regulatory Solutions, Inc.							
Truck Operator:	C. Phillips	RW-3	2.50								
	J. Phillips	RW-6	8.50								
	S. Sprott										
	K. Jacobs										
Stack I.D. (feet)	0.33 feet										
Notes:		Well ID	Final Stinger Depth (ft)	Average Treatment System Reduction Rate:							
▼ = Stinger Depth Lowered 0.50 Feet		MW-3R	11.00	97.26%							
** = Changed Carbon for 80% Reduction Rate		RW-3	11.00								
		RW-6	14.00								

TABLE 1B
AFVR MONITORING DATA
SHREEJAKSHANI (FORMERLY PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6851
SCDHEC SITE ID NUMBER 10628

Extraction Well	Date	Time	Differential Time	Extraction Well Head Vacuum	Off Gas Measurements						
					Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-7RR	04/08/19	9:30	0.50	26.0	1,782	0.0	100.00%	820	73.80	1.58	0.79
RW-1	04/08/19	10:00	0.50	26.0	1,954	0.0	100.00%	810	72.90	1.71	0.85
RW-5	04/08/19	10:30	0.50	26.0	2,192	0.0	100.00%	850	76.50	2.01	1.01
▼	04/08/19	11:00	0.50	26.0	2,587	0.0	100.00%	900	81.00	2.51	1.26
▼	04/08/19	11:30	0.50	26.0	2,840	0.0	100.00%	870	78.30	2.67	1.33
▼	04/08/19	12:00	0.50	26.0	3,420	0.0	100.00%	920	82.80	3.40	1.70
▼	04/08/19	12:30	0.50	26.0	3,587	0.0	100.00%	900	81.00	3.49	1.74
▼	04/08/19	13:00	0.50	26.0	3,499	0.0	100.00%	910	81.90	3.44	1.72
▼	04/08/19	13:30	0.50	26.0	3,964	0.0	100.00%	920	82.80	3.64	1.82
▼	04/08/19	14:00	0.50	26.0	3,454	0.0	100.00%	880	80.10	3.32	1.66
▼	04/08/19	14:30	0.50	26.0	3,508	0.0	100.00%	870	78.30	3.29	1.65
▼	04/08/19	15:00	0.50	26.0	3,324	0.0	100.00%	860	80.10	3.20	1.60
▼	04/08/19	15:30	0.50	26.0	3,375	0.0	100.00%	920	82.80	3.35	1.68
▼	04/08/19	16:00	0.50	26.0	3,184	9.8	99.69%	900	81.00	3.09	1.55
▼	04/08/19	16:30	0.50	26.0	3,251	16.3	99.50%	910	81.90	3.20	1.60
▼	04/08/19	17:00	0.50	26.0	3,170	17.8	99.44%	920	82.80	3.15	1.57
▼	04/08/19	17:30	0.50	26.0	3,346	19.9	99.41%	930	83.70	3.38	1.68
▼	04/08/19	18:30	1.00	26.0	3,471	21.5	99.38%	950	85.50	3.56	3.56
Stinger Depth	04/08/19	19:30	1.00	26.0	3,604	30.4	99.16%	950	85.50	3.70	3.70
MW-7RR = 11 Ft	04/08/19	20:30	1.00	26.0	3,390	34.2	98.99%	900	81.00	3.30	3.30
RW-1 = 11 Ft	04/08/19	21:30	1.00	26.0	3,294	38.7	98.63%	900	81.00	3.20	3.20
RW-5 = 14 Ft	04/08/19	22:30	1.00	26.0	3,306	41.2	98.75%	920	82.80	3.28	3.28
Stinger Change	04/08/19	23:30	1.00	26.0	3,329	43.7	98.69%	920	82.80	3.31	3.31
MW-7RR to 8 Ft	04/09/19	8:00	8.50	26.0	2,067	94.6	95.42%	930	83.70	2.08	17.65
RW-1 to 8 Ft	04/09/19	10:00	2.00	26.0	2,184	98.1	95.51%	930	83.70	2.19	4.39
RW-5 to 12 Ft	04/09/19	12:00	2.00	26.0	2,107	110.8	94.74%	940	84.60	2.14	4.28
Stinger Change	04/09/19	14:00	2.00	26.0	2,085	112.9	94.59%	940	84.60	2.12	4.23
Stinger Change	04/09/19	18:00	2.00	26.0	1,972	124.2	93.70%	950	85.50	2.02	4.05
Stinger Change	04/09/19	18:00	2.00	26.0	2,011	151.8	92.45%	950	85.50	2.06	4.13
Stinger Change	04/09/19	20:00	2.00	26.0	2,029	164.3	91.80%	960	86.40	2.10	4.21
Stinger Change	04/09/19	22:00	2.00	26.0	1,984	179.5	90.65%	920	82.80	1.97	3.94
Stinger Change	04/10/19	0:00	2.00	26.0	1,953	200.8	89.72%	940	84.60	1.98	3.97
Stinger Change	04/10/19	8:00	8.00	26.0	1,867	321.2	82.80%	930	83.70	1.88	15.00
Stinger Change	04/10/19	10:00	2.00	26.0	2,280	0.0	100.00%	920	82.80	2.27	4.53
MW-7RR to 10 Ft	04/10/19	12:00	2.00	26.0	2,732	0.0	100.00%	940	84.60	2.77	5.55
RW-1 to 10 Ft	04/10/19	14:00	2.00	26.5	2,847	0.0	100.00%	890	80.10	2.83	5.67
RW-5 to 13 Ft	04/10/19	16:00	2.00	26.5	3,209	0.0	100.00%	900	81.00	3.12	6.24
Stinger Change	04/10/19	18:00	2.00	26.0	3,198	7.2	99.77%	930	83.70	3.21	6.42
Stinger Change	04/10/19	20:00	2.00	25.0	2,409	5.3	99.78%	1,000	90.00	2.60	5.20
Stinger Change	04/10/19	22:00	2.00	25.0	2,617	13.8	99.47%	1,000	90.00	2.83	5.65
Stinger Change	04/11/19	0:00	2.00	25.5	2,793	19.1	99.32%	960	86.40	2.90	5.78
Stinger Change	04/11/19	8:00	8.00	26.0	3,104	38.7	98.75%	920	82.80	3.08	24.67
MW-7RR to 11 Ft	04/11/19	10:00	2.00	25.5	2,849	111.2	96.10%	1,010	90.90	3.11	6.22
RW-1 to 11 Ft	04/11/19	12:00	2.00	26.0	3,271	242.9	92.57%	960	85.50	3.36	6.71
RW-5 to 14 Ft	04/11/19	14:00	2.00	26.5	4,158	459.2	88.86%	900	81.00	4.04	8.09
Stinger Change	04/11/19	16:00	2.00	26.5	4,206	647.2	84.61%	870	78.30	3.85	7.90
Stinger Change	04/11/19	18:00	2.00	27.0	3,856	0.0	100.00%	850	76.50	3.54	7.08
Stinger Change	04/11/19	20:00	2.00	26.0	3,324	0.0	100.00%	920	82.80	3.30	6.61
Stinger Change	04/11/19	22:00	2.00	26.0	3,721	0.0	100.00%	920	82.80	3.70	7.39
Stinger Change	04/12/19	0:00	2.00	25.0	4,253	0.0	100.00%	970	87.30	4.46	8.91
Stinger Change	04/12/19	8:00	8.00	25.0	3,462	0.0	100.00%	980	88.20	3.68	29.31
Stinger Change	04/12/19	9:30	1.50	25.0	3,265	0.0	100.00%	970	87.30	3.42	5.13

Well Data:		Pre AFVR Event			Post AFVR Event			Corrected Depth	
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Change (ft)
MW-7RR	2"	2-12	5.56	5.80	0.04	***	11.41	***	5.84
RW-1	4"	2-12	5.39	5.80	0.21	***	10.65	***	5.05
RW-5	4"	2-15	5.62	6.17	0.85	***	8.82	***	2.75

Vacuum Truck Information		Well ID	Initial Stinger Depth (ft)	Recovery / Disposal Information		
Contractor:	MECI	MW-7RR	6.00	Hydrocarbons Removed (vapor):	257.51	Pounds
Truck Operator:	C. Phillips	RW-1	6.00	Hydrocarbons Removed (liquid):	0	Gallons
	A. Huffman	RW-5	6.00	Total Hydrocarbons Removed:	44.48	Equivalent Gallons
	J. Phillips			Molecular Weight Utilized:	75	g / mole
	K. Jacobs			Total Liquids Removed:	3,575	Gallons
Stack I.D. (feet)	0.33 feet			Disposal Facility:	Regulatory Solutions, Inc.	
Notes:		Well ID	Final Stinger Depth (ft)	Average Treatment System Reduction Rate:	95.72%	
▼ = Stinger Depth Lowered 0.50 Feet		MW-7RR	11.00			
** = Changed Carbon for 80% Reduction Rate		RW-1	11.00			
		RW-5	14.00			

**TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SHREEJAKSHANI (FORMER PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6851
SCDHEC SITE ID NUMBER 10628**

DIFFERENTIAL PRESSURE DATA

			MW-4R	
Nearest Extraction Well:			RW-3	
Approximate Distance:			16 ft	
Time	Elapsed Time			
Prior to AFVR				
9:00	0.0	0.0	0.0	
9:30	0.5	0.0	1.0	
10:00	1.0	0.0	1.0	
10:30	1.5	0.0	2.0	
11:00	2.0	0.0	2.0	
11:30	2.5	0.0	2.0	
12:00	3.0	0.0	4.0	
12:30	3.5	0.0	4.0	
13:00	4.0	0.0	4.0	
13:30	4.5	0.0	4.0	
14:00	5.0	0.0	4.0	
14:30	5.5	0.0	4.0	
15:00	6.0	0.0	4.0	
15:30	6.5	0.0	4.0	
16:00	7.0	0.0	4.0	
16:30	7.5	0.0	4.0	
17:00	8.0	0.0	4.0	
18:00	9.0	0.0	4.0	
19:00	10.0	0.0	4.0	
20:00	11.0	0.0	4.0	
21:00	12.0	0.0	4.0	
22:00	13.0	0.0	4.0	
23:00	14.0	0.0	4.0	
0:00	15.0	0.0	4.0	
8:00	23.0	0.0	5.0	
10:00	25.0	0.0	5.0	
12:00	27.0	0.0	5.0	
14:00	29.0	0.0	5.0	
16:00	31.0	0.0	5.0	
18:00	33.0	0.0	5.0	
20:00	35.0	0.0	5.0	
22:00	37.0	0.0	5.0	
0:00	39.0	0.0	5.0	
8:00	47.0	0.0	6.0	
10:00	49.0	0.0	6.0	
12:00	51.0	0.0	8.0	
14:00	53.0	0.0	8.0	
16:00	55.0	0.0	10.0	
18:00	57.0	0.0	10.0	
20:00	59.0	0.0	10.0	
22:00	61.0	0.0	10.0	
0:00	63.0	0.0	10.0	
8:00	71.0	0.0	10.0	
10:00	73.0	0.0	10.0	
12:00	75.0	0.0	10.0	
14:00	77.0	0.0	6.0	
16:00	79.0	0.0	6.0	
18:00	81.0	0.0	7.0	
20:00	83.0	0.0	6.0	
22:00	85.0	0.0	8.0	
0:00	87.0	0.0	5.0	
8:00	95.0	0.0	9.0	
9:00	96.0	0.0	7.0	
Maximum Change:		0.0	10.0	

GROUNDWATER DRAWDOWN DATA

			MW-4R	
Nearest Extraction Well:			RW-3	
Approximate Distance:			16 ft	
Time	Elapsed Time			
Prior to AFVR				
13:00	4 hours	2.12	1.90	
17:00	8 hours	2.26	2.02	
21:00	12 hours	2.38	2.54	
1:00	16 hours	2.48	3.14	
5:00	20 hours	***	***	
8:00	23 hours	2.62	4.36	
12:00	27 hours	2.62	4.42	
16:00	31 hours	2.68	4.53	
20:00	35 hours	2.75	4.68	
0:00	39 hours	2.77	4.79	
4:00	43 hours	***	***	
8:00	47 hours	2.81	5.21	
12:00	51 hours	2.83	5.65	
16:00	55 hours	2.84	6.28	
20:00	59 hours	2.80	6.16	
0:00	63 hours	2.79	6.14	
4:00	67 hours	***	***	
8:00	71 hours	2.64	5.99	
12:00	75 hours	2.65	6.06	
16:00	79 hours	2.65	6.17	
20:00	83 hours	2.64	6.29	
0:00	87 hours	2.62	6.18	
4:00	91 hours	***	***	
8:00	95 hours	2.58	6.08	
9:00	96 hours	2.57	6.05	
Maximum Change:		-0.72	-4.39	

*** = Readings Not Required Between 12AM & 8AM per QAPP

**TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SHREEJAKSHANI (FORMER PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-6851
SCDHEC SITE ID NUMBER 10628**

DIFFERENTIAL PRESSURE DATA

			MW-15	RW-4
Nearest Extraction Well:			RW-1	MW-7RR
Approximate Distance:			82 ft	11 ft
Time	Elapsed Time			
	Prior to AFVR		0.0	0.0
9:30	0.0		0.0	0.0
10:00	0.5		0.0	0.0
10:30	1.0		0.0	0.0
11:00	1.5		0.0	0.0
11:30	2.0		0.0	0.0
12:00	2.5		0.0	0.0
12:30	3.0		0.0	1.0
13:00	3.5		0.0	1.0
13:30	4.0		0.0	2.0
14:00	4.5		0.0	3.0
14:30	5.0		0.0	3.0
15:00	5.5		0.0	3.0
15:30	6.0		0.0	3.0
16:00	6.5		0.0	3.0
16:30	7.0		0.0	3.0
17:00	7.5		0.0	3.0
17:30	8.0		0.0	3.0
18:30	9.0		0.0	3.0
19:30	10.0		0.0	3.0
20:30	11.0		0.0	3.0
21:30	12.0		0.0	6.0
22:30	13.0		0.0	7.0
23:30	14.0		0.0	6.0
8:00	22.5		0.0	8.0
10:00	24.5		0.0	8.0
12:00	26.5		0.0	9.5
14:00	28.5		0.0	9.5
16:00	30.5		0.0	9.5
18:00	32.5		0.0	9.5
20:00	34.5		0.0	9.5
22:00	36.5		0.0	9.5
0:00	38.5		0.0	9.5
8:00	46.5		0.0	9.5
10:00	48.5		0.0	9.0
12:00	50.5		0.0	10.0
14:00	52.5		0.0	10.0
16:00	54.5		0.0	10.0
18:00	56.5		0.0	10.0
20:00	58.5		0.0	10.0
22:00	60.5		0.0	10.0
0:00	62.5		0.0	10.0
8:00	70.5		0.0	10.0
10:00	72.5		0.0	10.0
12:00	74.5		0.0	10.0
14:00	76.5		0.0	10.0
16:00	78.5		0.0	10.0
18:00	80.5		0.0	10.0
20:00	82.5		0.0	10.0
22:00	84.5		0.0	10.0
0:00	86.5		0.0	10.0
8:00	94.5		0.0	10.0
9:30	96.0		0.0	10.0
Maximum Change:			0.0	10.0

GROUNDWATER DRAWDOWN DATA

			MW-15	RW-4
Nearest Extraction Well:			RW-1	MW-7RR
Approximate Distance:			82 ft	11 ft
Time	Elapsed Time			
	Prior to AFVR		2.73	7.00
13:30	4 hours		2.78	7.16
17:30	8 hours		2.82	7.49
21:30	12 hours		2.83	7.63
1:30	16 hours		***	***
5:30	20 hours		***	***
8:00	22.5 hours		2.56	7.73
12:00	26.5 hours		2.55	7.73
16:00	30.5 hours		2.54	7.75
20:00	34.5 hours		2.57	7.79
0:00	38.5 hours		***	***
4:00	42.5 hours		***	***
8:00	46.5 hours		2.55	7.90
12:00	50.5 hours		1.67	7.29
16:00	54.5 hours		1.84	7.18
20:00	58.5 hours		1.93	7.16
0:00	62.5 hours		***	***
4:00	66.5 hours		***	***
8:00	70.5 hours		1.96	7.10
12:00	74.5 hours		2.21	6.48
16:00	78.5 hours		2.29	5.90
20:00	82.5 hours		2.31	5.97
0:00	86.5 hours		***	***
4:00	90.5 hours		***	***
8:00	94.5 hours		2.35	6.78
9:30	96 hours		2.35	6.78
Maximum Change:			1.06	1.10

*** = Readings Not Required Between 12AM & 6AM per QAPP

AFVR CALIBRATION LOG

Site Name Sheejakshani (Former Pantry 911)
MECI # 19-6851
Date 4/1/2019-4/5/2019
Field Personnel S.S., J.P., K.J., C.P.
Serial # 592-902491

Hours	Time	Zero Cal.	Span Cal.
0	9:00	0.0	100.1
8	17:00	0.0	100.2
16	1:00	0.0	100.1
24	9:00	0.0	100.1
32	17:00	0.0	100.0
40	1:00	0.0	100.1
48	9:00	0.0	100.0
56	17:00	0.0	100.0
64	1:00	0.0	100.0
72	9:00	0.0	100.1
80	17:00	0.0	100.0
88	1:00	0.0	100.1
96	9:00	0.0	100.0

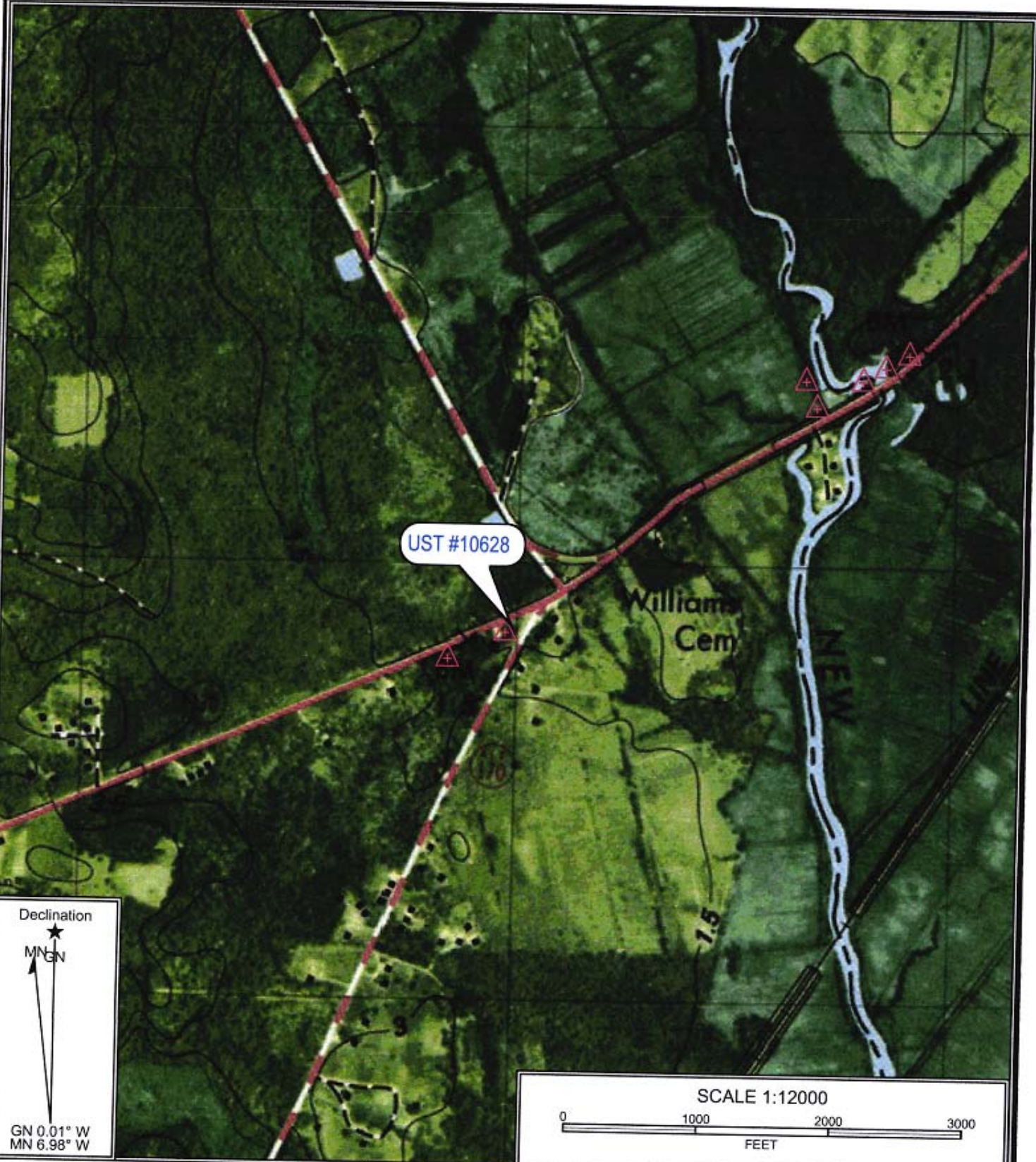
Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.

AFVR CALIBRATION LOG

Site Name Sheejakshani (Former Pantry 911)
MECI # 19-6851
Date 4/8/2019-4/12/2019
Field Personnel R.G., J.P., K.J., S.S.
Serial # 592-902491

Hours	Time	Zero Cal.	Span Cal.
0	9:30	0.0	100.0
8	17:30	0.0	100.0
16	1:30	0.0	100.1
24	9:30	0.0	100.0
32	17:30	0.0	100.1
40	1:30	0.0	100.1
48	9:30	0.0	100.0
56	17:30	0.0	100.2
64	1:30	0.0	100.0
72	9:30	0.0	100.2
80	17:30	0.0	100.0
88	1:30	0.0	100.1
96	9:30	0.0	100.1

Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm.



Reference: Limehouse and Hardeeville, South Carolina
 Jasper and Pritchardville, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval—1.5 Meters

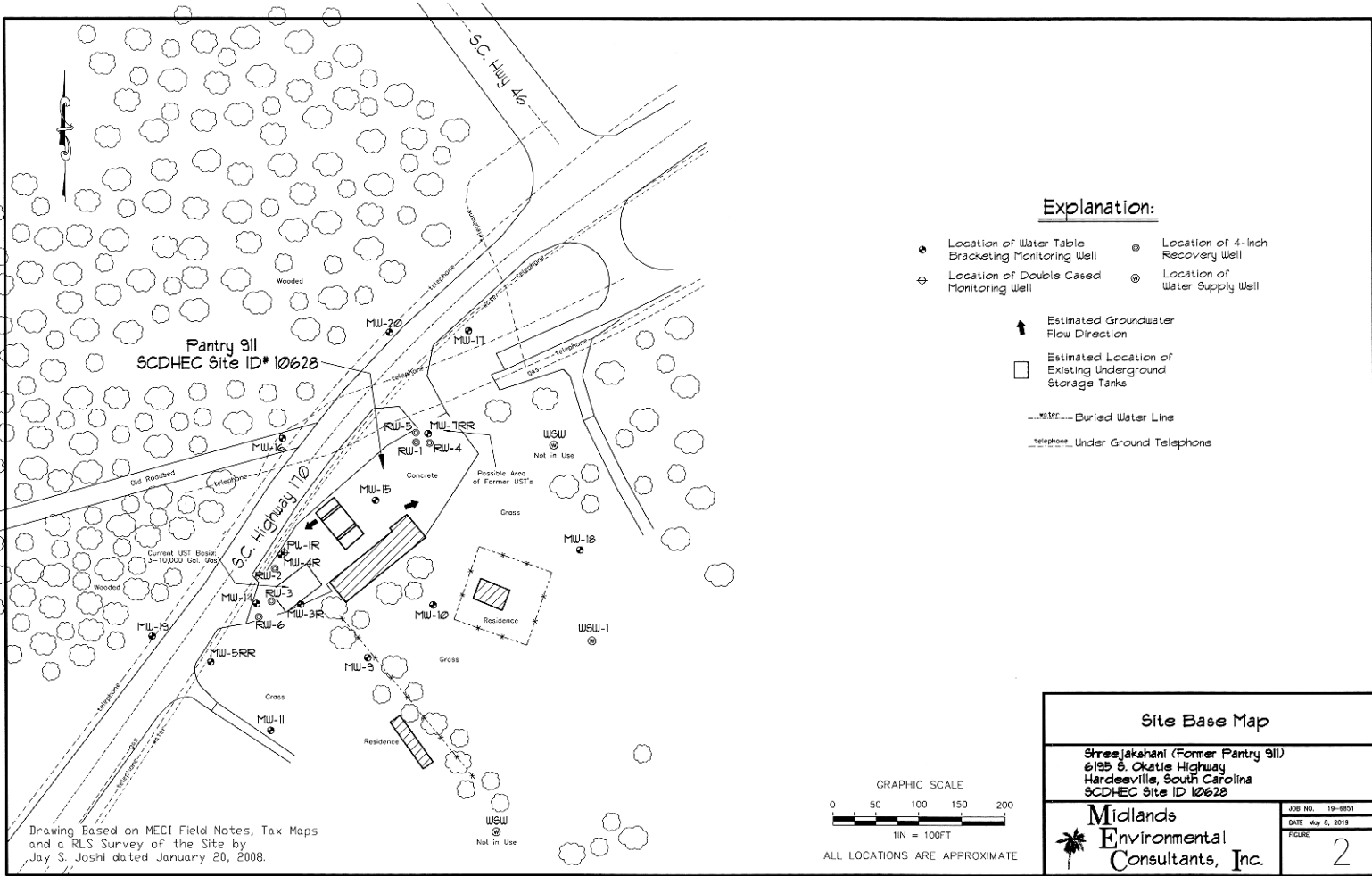
Midlands
 Environmental
 Consultants, Inc.

Site Location

Pantry 911
 6195 South Okatie Highway, Hardeeville, SC
 SCDHEC Site ID* 10628

Figure 1

MECI 19-6851



03:27 PM Apr/03/2019

TRUCK ID: 12703

GROSS 60540 LB

TARE LB

NET LB

04:36 PM Apr/03/2019

TRUCK ID: 12703

GROSS 60540 LB

TARE 27020 LB

NET 33520 LB

regulatory solutions, inc.

CUSTOMER NAME:

Midlands

GENERATOR:

Harder ville AFVR

TRUCK/CONTAINER #:

TI-01 / TK-05

MANIFEST #:

28802

WEIGHER (INITIALS):

JMC

12703

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of
1

3. Emergency Response Phone
803-926-0089

4. Waste Tracking Number
28802

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Midlands Environmental Consultant
P.O. Box 854
Lexington, SC 29071-

Generator's Phone: 803-808-2043

6. Transporter 1 Company Name

Regulatory Solutions, Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Regulatory Solutions, Inc.
40 Pascon Court
Gaston, SC 29053-

U.S. EPA ID Number

Facility's Phone: 803-926-0089

9. Waste Shipping Name and Description

10. Containers

11. Total
Quantity

12. Unit
Wt. Vol

1. NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045

No.

Type

4000

g

2.

3.

4.

13. Special Handling Instructions and Additional Information

Hardeeville First Evont, First Pull

TK-05

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year
4 3 19

Kyle Jacobs

[Signature]

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year
4 3 19

Willie Spencer

[Signature]

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

- Manifest Reference Number:

17b: Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone

17c: Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.

Printed/Typed Name

Signature

Month Day Year
4 3 19

Justin Conley

[Signature]

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

12:43 PM Apr/08/2019
TRUCK ID:12715
GROSS 85320 LB
TARE LB
NET LB

01:47 PM Apr/08/2019
TRUCK ID:12715
GROSS 85320 LB
TARE 30940 LB
NET 54380 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands
GENERATOR: Hardeeville AFVR 1st Event
TRUCK/CONTAINER #: TJ-01 / TK-08
MANIFEST#: 28829

WEIGHER (INITIALS): JMC

12715

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-926-0080	4. Waste Tracking Number 28929	
5. Generator's Name and Mailing Address Midlands Environmental Consultant P.O. Box 854 Lexington, SC 29071- Generator's Site Address (if different than mailing address)					
6. Transporter 1 Company Name Regulatory Solutions, Inc			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address Regulatory Solutions, Inc. 40 Pascon Court Gaston, SC 29053- Facility's Phone: 803-926-0080			U.S. EPA ID Number		
9. Waste Shipping Name and Description					
		10. Containers		11. Total	12. Unit
		No.	Type	Quantity	Wt. Vol
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045	1	TT	6500	g
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information Hardecville First Event Final Full					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offoror's Printed/Typed Name X Kyle Jacobs			Signature <i>Kyle Jacobs</i>		
			Month Day Year 14 8 19		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
18. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Justin Conley			Signature <i>Justin Conley</i>		
Transporter 2 Printed/Typed Name			Month Day Year 14 8 19		
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
17b: Alternate Facility (or Generator)			U.S. EPA ID Number		
Facility's Phone					
17c: Signature of Alternate Facility (or Generator)			Month Day Year		
18: Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.					
Printed/Typed Name Justin Conley			Signature <i>Justin Conley</i>		
			Month Day Year 14 8 19		

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

09:07 AM Apr/15/2019
TRUCK ID: 12733
GROSS 57000 LB
TARE LB
NET LB

10:23 AM Apr/15/2019
TRUCK ID: 12733
GROSS 57000 LB
TARE 27180 LB
NET 29820 LB

regulatory solutions, inc.

CUSTOMER NAME: Midlands
GENERATOR: Hardeeville AFVR 2nd Event
TRUCK/CONTAINER #: TL-01 / TK-05
MANIFEST #: 28866

WEIGHER (INITIALS): JMC

12733

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-926-0089	4. Waste Tracking Number 28865		
	5. Generator's Name and Mailing Address Midlands Environmental Consultant P.O. Box 854 Lexington, SC 29071- Generator's Phone: 803-808-2043		Generator's Site Address (if different than mailing address)			
	6. Transporter 1 Company Name Regulatory Solutions, Inc		U.S. EPA ID Number			
	7. Transporter 2 Company Name		U.S. EPA ID Number			
	8. Designated Facility Name and Site Address Regulatory Solutions, Inc. 40 Pascon Court Gaston, SC 29053- Facility's Phone: 803-926-0089		U.S. EPA ID Number			
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt. Vol
			No.	Type		
	1. NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045		1	TT	3575	g
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information Hardeeville Second Event Only Pull						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name			Signature		Month	Day Year
TRANSPORTER	15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit:		
	Transporter Signature (for exports only):			Date leaving U.S.:		
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Justin Conley			Signature <i>Justin Conley</i>		Month	Day Year 4/12/19
Transporter 2 Printed/Typed Name			Signature		Month	Day Year
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	17b: Alternate Facility (or Generator)			Manifest Reference Number:		
	Facility's Phone			U.S. EPA ID Number		
	17c: Signature of Alternate Facility (or Generator)			Signature		Month
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a.						
Printed/Typed Name Justin Conley			Signature <i>Justin Conley</i>		Month	Day Year 4/12/19



NOV 05 2019



MALPHRUS ENTERPRISES
2788 N OKATIE HWY
RIDGELAND SC 29936-8235

Re: Site-Specific Work Plan (SSWP) Request for Groundwater Sampling
Shreejakshani LLC DBA Okatie Mart, 6195 S Okatie Hwy, Hardeeville, SC
UST Permit #10628
Release reported April 28, 1995
Aggressive Fluid Vapor Recovery received May 29, 2019
Jasper 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 submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

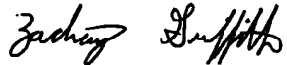
To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

Groundwater samples should be collected from all monitoring wells associated with the above referenced release and all water supply wells, and surface waters within a 1,000 foot radius of the site and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screen intervals that do not bracket the water table should be purged prior to sampling.

Your contractor must complete the SSWP and submit it within 30 days from the date of this letter. 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 approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please use the UST Permit number referenced above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by e-mail at griffiza@dhec.sc.gov.

Sincerely,



Zachary Griffith, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071
Technical file



**Midlands
Environmental
Consultants, Inc.**

November 12, 2019

Mr. Zachary Griffith, Hydrogeologist
Corrective Action & Field Support 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
Shreejakshani, LLC DBA Okatie Mart
Hardeeville, South Carolina
SCDHEC Site ID Number 12982 10028
MECI Project Number 19-7148
Certified Site Rehabilitation Contractor UCC-0009



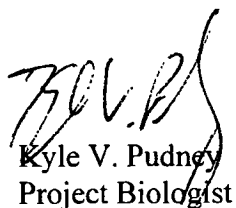
Dear Mr. Griffith,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

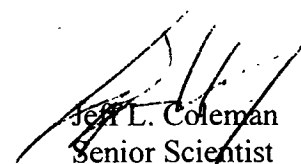
On November 11, 2019, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.



Kyle V. Pudney
Project Biologist



Jeff L. Coleman
Senior Scientist



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

To: Mr Zachary Griffith (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Shreejakshani LLC DBA Okatie Mart UST Permit #: 10628
Facility Address: 6195 South Okatie Highway, Hardeeville, SC 29927
Responsible Party: Malphrus Enterprises Phone: N/A
RP Address: 2788 North Okatie Highway, Ridgeland, SC 29936
Property Owner (if different): Shreejakshani LLC
Property Owner Address: 6195 South Okatie Highway, Hardeeville, SC 29927
Current Use of Property: Active Service Station

Scope of Work (Please check all that apply)

- IGWA, Tier I, Tier II, Monitoring Well Installation, Groundwater Sampling, Other, GAC

Analyses (Please check all that apply)

- Groundwater/Surface Water: BTEXNMDCA, Oxygenates, EDB, PAH, Lead, 8 RCRA Metals, TPH, pH, BOD, Nitrate, Sulfate, Other, Methane, Ethanol, Dissolved Iron
Drinking Water Supply Wells: BTEXNMDCA, Oxygenates & Ethanol, Mercury, RCRA Metals, EDB
Soil: BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease, TPH-DRO, TPH-GRO, Grain Size, TOC
Air: BTEXN

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

Soil: 1 Water Supply Wells, Air: 2 Field Blank
21 Monitoring Wells, Surface Water, 3 Duplicate, 2 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
Comments, if warranted:

UST Permit #: 10628 Facility Name: Shreejakshani LLC DBA Okatie Mart

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 11/12/2019 Field Work Completion: 12/12/2019
Report Submittal: 2/20/2020 # of Copies Provided to Property Owners: 2

Aquifer Characterization

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

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: 50.0 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.

-During the initial site visit, monitoring wells MW-10, MW-11 and MW-17 were unable to be located. During sampling activities, MECI will utilize additional personnel in order these monitoring wells

-Samples will be analyzed for BTEXNM, DCA, Oxy's and EDB by appropriate methods.

-Only monitoring wells which do not bracket the watertable will be purged prior to sample collection.

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



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Shreejakshani LLC DBA Okatie Mart

UST Permit #: 10628

Cost Agreement #: Proposal

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		each	\$1,020.00	\$0.00
B1. Personnel	3	each	\$423.00	\$1,269.00
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 sample, 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. Rotasonic (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	1	per well/receptor	\$60.00	\$60.00
B1. Air or Vapors		per receptor	\$12.00	\$0.00
C1 Water Supply	1	per well/receptor	\$22.00	\$22.00
D1. Groundwater No Purge or Duplicate	23	per well/receptor	\$28.00	\$644.00
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	2	each	\$24.60	\$49.20
I. Groundwater (low flow purge)		per well/receptor	\$91.00	\$0.00

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	25	per sample	\$122.00	\$3,050.00
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. Trimethyl, 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	24	per sample	\$45.20	\$1,084.80
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-Drinking Water				
L. BTEXNM+1,2 DCA (524.2)	4	per sample	\$124.05	\$496.20
M. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$91.75	\$367.00
N. EDB (504 1)	3	per sample	\$79.50	\$238.50
O. RCRA METALS (200 8)		per sample	\$100.00	\$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	50	gallon	\$0.56	\$28.00
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	\$7,458.70		\$895.04
TOTAL					\$8,353.74

DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary

UST #10628

William
Cem

7.5

Declination



GN 0.01° W
MN 6.98° W

SCALE 1:12000



Reference: Limehouse and Hardeeville, South Carolina
Jasper and Pritchardville, South Carolina
USGS 7.5 Min. Quad
Contour Interval—1.5 Meters

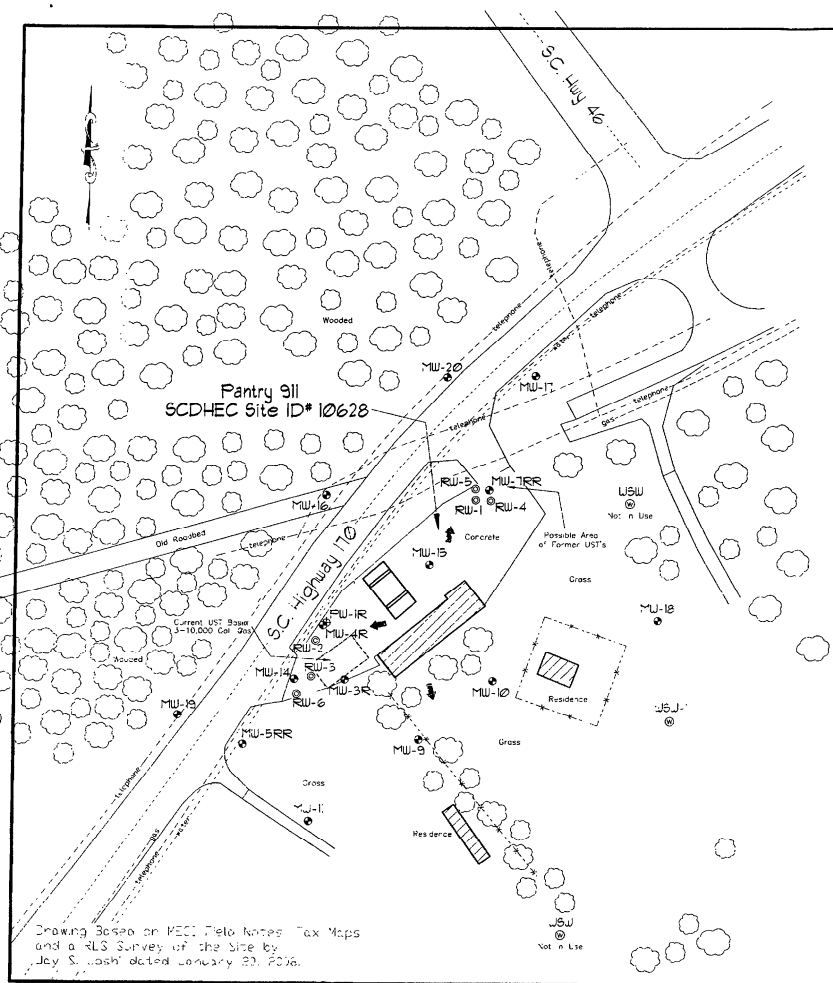
Midlands
Environmental
Consultants, Inc.

Site Location

Pantry 911
6195 South Okatie Highway, Hardeeville, SC
SCDHEC Site ID# 10628

Figure 1

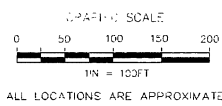
MECI 18-6460



Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased Monitoring Well
- ⊙ Location of 4-Inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Buried Water Line
- Under Ground Telephone

Drawing Based on PECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Cook dated January 23, 2016.



Site Base Map	
Pantry 911 6195 S. Okatie Highway Hardeeville, South Carolina SCDHEC Site ID 10628	
	JOB NO. 16-0450 DATE: September 18, 2018 FIGURE: 2



Healthy People. Healthy Communities.

MALPHRUS ENTERPRISES
2788 N OKATIE HWY
REDGELAND SC 29936-8235

JAN 23 2020



Re: **Groundwater Sampling Notice to Proceed**
Shreejakshani LLC DBA Okatie Mart, 6195 S Okatie Hwy, Hardeeville, SC
UST Permit # 10628; CA # 60941
Release Reported April 28, 1995
Site-Specific Work Plan and cost proposal received November 14, 2019
Jasper 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 and approved the referenced Site-Specific Work Plan (SSWP) submitted by Midlands Environmental Consultants, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Midlands Environmental Consultants' approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

The groundwater sampling event should begin immediately upon receipt of this letter. Cost agreement # 10628 has been approved for the amount shown on the enclosed cost agreement form. Please note the following changes to the cost agreement and SSWP:

- Item 4 A1 – 1 Personnel mob has been removed from the cost agreement.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Midlands Environmental Consultants, Inc. can 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. 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.

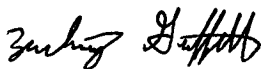
Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The Division 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 Division 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.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by and DHEC-certified site rehabilitation contractor as required by R.61-98.

The Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), 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 RBSLs.

On all correspondence regarding this site, please reference UST Permit #10628. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0606, fax me at (803) 898-0673, or e-mail me at griffiza@dhec.sc.gov.

Sincerely,



Zachary Griffith, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement 60941

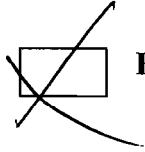
Facility: 10628 SHREEJAKSHANI LLC DBA OKATIE MART

GRIFFIZA

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	\$150.000	150.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$423.000	846.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	1.0000	\$60.000	60.00
		C1 WATER SUPPLY	1.0000	\$22.000	22.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	23.0000	\$28.000	644.00
		H1 FIELD BLANK	2.0000	\$24.600	49.20
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	25.0000	\$122.000	3,050.00
		F1 EDB BY 8011	24.0000	\$45.200	1,084.80
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$124.050	496.20
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$91.750	367.00
		N EDB (504.1)	3.0000	\$79.500	238.50
17 DISPOSAL					
		AA WASTEWATER	50.0000	\$0.560	28.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	\$7,035.700	844.28
Total Amount					7,879.98

Document Receipt Information



Hard Copy



CD



Email

Date Received 3-12-20

Permit Number 10628

Project Manager Zach Griffith

Name of Contractor MECF

UST Certification Number _____

Docket Number 64424

Scanned _____

*GWS/Chemical
Analysis*

REPORT OF GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

Shreejakshani / Pantry 911
6195 South Okatie Highway
Hardeeville, South Carolina
SCDHEC Site ID 10628
CA # 60941

Prepared By:



231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

February 20, 2020

MECI Project No. 19-7148



February 20, 2020

Mr. Zachary Griffith, Hydrogeologist
Corrective Action & Field Support 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: Report of Groundwater Sampling and Chemical Analysis
Shreejakshani / Pantry 911
6195 South Okatie Highway
Hardeeville, South Carolina
SCDHEC Site ID# 10628, CA# 60941
MECI Project Number 19-7148
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Griffith,

On behalf of Mr. Donnie Malphrus of Malphrus Industries, Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling and Chemical Analysis for the referenced site. This report describes assessment activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

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.

Jordan W. Floyd
Staff Hydrogeologist

Bryan T. Shane, P.G.
Principal Geologist

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NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

A. Owner/Operator Information

Facility Name: Malphrus Enterprises UST Permit #: 10628
 Facility Address: 6195 South Okatie Highway, Hardeeville, SC 29927
 Name: Mr. Donnie Malphrus
 Address: 2789 North Okatie Highway, Ridgeland, SC 29936
 Telephone #: (843) 263-3050

B. Property Owner Information

Name: Shreejakshani LLC
 Address: 6194 South Okatie Highway, Ridgeland, SC 29936
 Telephone #: (843) 784-6194
 Tax Map #: 039-00-10-025

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: N/A
 Driller: N/A
 Certification #: N/A
 Address: N/A
 Telephone #: N/A

E. SCDHEC Certified Laboratory

Name: Pace Analytical Services, LLC
 Certification #: 99006001
 Address: 9800 Kinsey Ave, Suite 100, Huntersville, NC 28078
 Telephone #: (704) 875-9092

1.1 PROJECT INFORMATION

The subject site (Pantry 911) is located at 6195 South Okatie Highway, Hardeeville, Jasper County, South Carolina (See Figure 1). The site is currently an Active gas station. The following table presents Underground Storage Tanks (UST's) which are associated with UST# 10628:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	10,000 Gal. Regular Unleaded	In Use	In Compliance (12/14/2018)
2	10,000 Gal. Diesel	In Use	In Compliance (12/14/2018)
3	10,000 Gal. Premium	In Use	In Compliance (12/14/2018)

The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product from these UST's in April of 1995 and confirmed the release in March of 1996. The subject site is currently rated a Class 2BB.

The above information is based on reports and correspondence obtained from SCDHEC files and MECI field notes.

2.0 SURROUNDING PROPERTY USAGE

The site is located outside the town limits of Hardeeville, South Carolina. The property is currently operating as an active gasoline service station (Shreejakshani / Pantry 911). South Okatie Highway (S.C. Highway 46) forms the western and northern borders of the subject property, beyond which are wooded and undeveloped properties. South and east of the subject property are residential properties and wooded areas.

The following table identifies water supply wells and the physical address of their locations:

Water Supply Well Number	Well Owner	Jasper County Tax Map Number:	Notes:	Well Status
WSW-1	Stella Crosby Jeffers	039-00-10-029	274 New River Road	Active

This water supply well (WSW-1) is located approximately 350 feet east of the current UST basin.

3.0 AREA GEOLOGY AND HYDROGEOLOGY

The mean elevation of the property as depicted on the local USGS quadrangle (Limehouse, SC) appears to be approximately 1 meter above sea level. 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.

According to Newell et al. (In Review), the site is located within the Socastee Formation, a Pleistocene aged unit consisting of variegated quartzose sands, argillaceous sands and clays. This formation overlies the Canepatch Formation and unconformably underlies the Waiter Island and Ocean Forest Peat Formations.

3.1 LOCAL SUBSURFACE CONDITIONS

The subject site is located in the Lower Coastal Plain province. According to Newell et al. (In Review), the site is located within the Socastee Formation, a Pleistocene aged unit consisting of variegated quartzose sands, argillaceous sands and clays. This formation overlies the Canepatch Formation and unconformably underlies the Waiter Island and Ocean Forest Peat Formations.

Coastal plain sediments were encountered during previous drilling activities conducted at the site. The soils encountered during previous assessment activities generally consisted sandy clays and silts.

On February 5, 2020 stabilized groundwater levels were measured in the monitoring wells. Depth to groundwater ranged from 0.00 to 8.22 feet below top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. 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. Current groundwater elevation data reveals a radial flow pattern to the north, south, and west.

4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- sampling of groundwater monitoring wells and one (1) water supply well; and,

- chemical analyses of water samples.

4.1 SAMPLING AND CHEMICAL ANALYSES

On February 5, 2020, MECI personnel collected groundwater samples from thirteen (13) monitoring wells and one (1) water supply well at the subject site. Six (6) monitoring wells (MW-3R, MW-7RR, RW-1, RW-3, RW-5, and RW-6) were gauged and determined to contain free phase petroleum product. Additionally, MW-10 and MW-11 were not sampled and inundated with standing water. As directed by SCDHEC, only monitoring wells that did not bracket the water table were to be purged prior to sample collection. Eight (8) monitoring wells were purged prior to sampling.

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, or until 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, and water temperature were obtained before well sampling process. MECI utilized YSIPro20 meter for DO (mg/L) and temperature readings (°C) and YSI Pro 1030 meters for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC’s Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision of MECI’s Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Environmental Services, LLC, of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)	
							Analyte Sampled							
MW-3R			X											
MW-4R	X						X	X	X	X				
MW-5RR	X						X	X	X	X				
MW-7RR			X											
MW-9	X						X	X	X	X				
MW-10						X								
MW-11						X								
MW-14	X						X	X	X	X				
MW-15		X					X	X	X	X				
MW-16	X						X	X	X	X				

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes
 MTBE=Methyl tertiary butyl ether
 1,2 DCA = 1,2 Dichloroethane
 EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-17		X					X	X	X	X			
MW-18	X						X	X	X	X			
MW-19		X					X	X	X	X			
MW-20		X					X	X	X	X			
PW-1R	X						X	X	X	X			
RW-1			X										
RW-2	X						X	X	X	X			
RW-3			X										
RW-4		X					X	X	X	X			
RW-5			X										
RW-6			X										
DUP-1 (RW-4)		X					X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			
WSW-1										X		X	X
WSW DUP (WSW-1)		X								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

The results of the laboratory analyses are summarized in Table 3 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 122.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

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 4.1, groundwater samples obtained from the monitoring wells during the February 5, 2020 groundwater sampling event were analyzed for dissolved phase petroleum constituents. Monitoring wells MW-3RR, MW-7RR, RW-1, RW-3, RW-5, and RW-6 were gauged and determined to contain measurable free phase petroleum product. The analytical results indicate petroleum impact to the surficial aquifer (“Shallow Zone”) with the highest dissolved concentrations being detected in the area of RW-4. Of the thirteen monitoring wells and one water supply well sampled, three monitoring wells (MW-4R, RW-2, & RW-4) detected petroleum constituents above

Risk Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

<i>Compound</i>	<i>RBSL/SCAL (ug/l)</i>	<i>Wells Above RBSL</i>
Product	>0.01 Foot	MW-3R, MW-7RR, RW-1, RW-3, RW-5 & RW-6
Benzene	5	MW-4R, RW-2, & RW-4
Toluene	1,000	MW-4R & RW-4
Ethylbenzene	700	RW-4
Total Xylenes	10,000	None
Naphthalene	25	MW-4R & RW-4
MTBE	40	MW-4R
1,2 DCA	5	None
TAA	240	MW-4R
TAME	128	None
3,3-Dimethyl-1-butanol	NE	RBSL Not Established
TBA	1,400	MW-4R & RW-2
TBF	NE	RBSL Not Established
DIPE	150	RW-4
Ethanol	10,000	None
ETBE	47	None

In addition, the analytical results also detected petroleum constituents above the laboratory method detection limit and/or “J” values in monitoring wells MW-14 & MW-20; however, the concentrations detected did not exceed the RBSL.

The results of the analysis for the groundwater samples and specific parameters are listed on Table 3 and provided in the laboratory reports (Appendix B).

6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS

Based on the results of our assessment activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The highest concentrations of dissolved phase contaminants appear to be located near the former dispenser islands and former tank basin.

The contaminants appear to be gasoline range constituents. Groundwater elevation data for the February 5, 2020 sampling event were plotted, and points of equal elevation were interpolated between the monitoring wells. A groundwater contour map of the surficial aquifer was thus prepared and is presented on Figure 5. Current groundwater elevation data reveal a radial flow pattern to the north, south, and west.

Monitoring wells MW-3RR, MW-7RR, RW-1, RW-3, RW-5, and RW-6 were gauged and determined to contain measurable free phase petroleum product. The analytical results indicate petroleum impact to the surficial aquifer (“Shallow Zone”) with the highest dissolved concentrations being detected in the area RW-4. Of the thirteen monitoring wells and one water supply well sampled, three monitoring wells (MW-4R, RW-2, & RW-4) detected petroleum constituents above Risk Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

<i>Compound</i>	<i>RBSL/SCAL (ug/l)</i>	<i>Wells Above RBSL</i>
Product	>0.01 Foot	MW-3R, MW-7RR, RW-1, RW-3, RW-5 & RW-6
Benzene	5	MW-4R, RW-2, & RW-4
Toluene	1,000	MW-4R & RW-4
Ethylbenzene	700	RW-4
Total Xylenes	10,000	None
Naphthalene	25	MW-4R & RW-4
MTBE	40	None
1,2 DCA	5	None
TAA	240	MW-4R
TAME	128	None
3,3-Dimethyl-1-butanol	NE	RBSL Not Established
TBA	1,400	MW-4R & RW-2
TBF	NE	RBSL Not Established
DIPE	150	RW-4
Ethanol	10,000	None
ETBE	47	None

In addition, the analytical results also detected petroleum constituents above the laboratory method detection limit and/or “J” values in monitoring wells MW-14 and MW-20; however, the concentrations detected did not exceed the RBSL.

The results of the analysis for the groundwater samples and specific parameters are listed on Table 3 and provided in the laboratory reports (Appendix B).

As discussed above, free phase petroleum still remains at the site in monitoring well MW-3R at a thickness of 2.16 feet, monitoring well MW-7RR at a thickness of 0.01 feet, recovery well RW-1 at a thickness of 0.04 feet, recovery well RW-3 at a thickness of 2.31, recovery well RW-5 at a thickness of 0.25 feet, and in recovery well RW-6 at a thickness of 9.14 feet. Since the August 2018 groundwater sampling event, the presence of free phase petroleum product at the site has increased significantly, especially in RW-6. Dissolved CoC concentrations have decreased in monitoring wells MW-4R, and MW-5RR and MW-14. The dissolved CoC concentrations have generally remained constant in the remainder of the monitoring wells.

Since the presence of free phase petroleum product has increased following MECI’s remedial efforts, MECI feels there should be further investigations completed. After examining field notes and analytical results it appears that there are two separate areas that contain free phase petroleum at the subject site. MECI recommends a sample collection of petroleum product and PIANO analyses be conducted. The PIANO analyses will give further insight on the type of free phase petroleum present. MECI also believes this site is a candidate for Laser-Induced Fluorescence (LIF). This LIF process will give further insight into the type of product present at the site. Once the free phase petroleum product plume has been properly characterized and defined, Active Corrective Action efforts will be necessary to remove free phase petroleum product from the subject site.

7.0 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 Mr. Donnie Malphrus of Malphrus Enterprises, SCDHEC and MECI 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.

-oOo-

TABLES

TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-3R	1/8/2009		-	3.02	-	94.56	91.54
	7/25/2012		-	2.91	-	94.56	91.65
	6/27/2013		-	3.16	-	94.56	91.40
	7/10/2014		-	3.26	-	94.56	91.30
	10/27/2015	2-12	-	3.34	-	94.56	91.22
	9/7/2017*		2.45	2.86	0.41	94.56	92.05
MW-4R	8/27/2018		2.28	2.32	0.04	94.56	92.27
	2/5/2020		1.75	3.91	2.16	94.56	92.81
	1/8/2009		-	4.29	-	93.75	89.46
	7/25/2012		-	7.61	-	93.75	86.14
	6/27/2013		-	3.99	-	93.75	89.76
	7/10/2014		-	3.40	-	93.75	90.35
MW-5R	10/27/2015	5-15	-	2.80	-	93.75	90.95
	9/7/2017		-	2.59	-	93.75	91.16
	8/27/2018		-	2.18	-	93.75	91.57
	2/5/2020		-	3.30	-	93.75	90.45
	1/8/2009		-	3.00	-	91.70	88.70
	7/25/2012		-	7.35	-	91.70	84.35
MW-5RR	6/27/2013		-	3.20	-	92.18	88.98
	7/10/2014		-	4.86	-	92.18	87.32
	10/27/2015		-	2.85	-	92.18	89.33
	9/7/2017	2-12	-	2.24	-	92.18	89.94
	8/27/2018		-	1.41	-	92.18	90.77
	2/5/2020		-	1.70	-	92.18	90.48
MW-7RR	1/8/2009		-	6.38	-	95.80	89.42
	7/25/2012*		10.61	10.72	0.11	95.80	85.17
	6/27/2013*		6.32	6.34	0.02	95.80	89.48
	7/10/2014*		8.65	8.78	0.13	95.80	87.13
	10/27/2015	2-12	-	9.10	-	95.80	86.70
	9/7/2017*		5.34	5.40	0.06	95.80	90.45
MW-9	8/27/2018		4.87	4.88	0.01	95.80	90.93
	2/5/2020		4.98	4.99	0.01	95.80	90.62
	1/8/2009		-	6.09	-	96.73	90.64
	7/25/2012		-	NL	-	96.73	NL
	6/27/2013		-	5.05	-	96.73	91.68
	7/10/2014		-	7.53	-	96.73	89.20
MW-9	10/27/2015	8-18	-	6.13	-	96.73	90.60
	9/7/2017		-	4.85	-	96.73	91.88
	8/27/2018		-	4.50	-	96.73	92.23
	2/5/2020		-	4.52	-	96.73	92.21

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-10	1/8/2009		-	4.36	-	93.29	88.93
	7/25/2012		-	NL	-	93.29	NL
	6/27/2013		-	3.81	-	93.29	89.48
	7/10/2014		-	6.49	-	93.29	86.80
	10/27/2015	2-12	-	NL	-	93.29	NL
	9/7/2017		-	2.42	-	93.29	90.87
	8/27/2018		-	1.95	-	93.29	91.34
	2/5/2020		-	NL	-	93.29	NL
MW-11	1/8/2009		-	1.45	-	91.62	90.17
	7/25/2012		-	3.90	-	91.62	87.72
	6/27/2013		-	0.41	-	91.62	91.21
	7/10/2014		-	3.63	-	91.62	87.99
	10/27/2015	2-12	-	1.72	-	91.62	89.90
	9/7/2017		-	NL	-	91.62	NL
	8/27/2018		-	0.59	-	91.62	91.03
	2/5/2020		-	NL	-	91.62	NL
MW-14	1/8/2009		-	2.23	-	93.23	91.00
	7/25/2012		-	2.29	-	93.23	90.94
	6/27/2013		-	1.30	-	93.23	91.93
	7/10/2014		-	1.81	-	93.23	91.42
	10/27/2015	3.05-13.05	-	1.76	-	93.23	91.47
	9/7/2017		-	1.17	-	93.23	92.06
	8/27/2018		-	0.83	-	93.23	92.40
	2/5/2020		-	1.39	-	93.23	91.84
MW-15	1/8/2009		-	4.50	-	96.12	91.62
	7/25/2012		-	4.80	-	96.12	91.32
	6/27/2013		-	3.52	-	96.12	92.60
	7/10/2014		-	3.97	-	96.12	92.15
	10/27/2015	2-12	-	6.93	-	96.12	89.19
	9/7/2017		-	3.01	-	96.12	93.11
	8/27/2018		-	2.51	-	96.12	93.61
	2/5/2020		-	2.79	-	96.12	93.33
MW-16	1/8/2009		-	8.11	-	97.02	88.91
	7/25/2012		-	12.83	-	97.02	84.19
	6/27/2013		-	8.41	-	97.02	88.61
	7/10/2014		-	10.30	-	97.02	86.72
	10/27/2015	7-17	-	5.89	-	97.02	91.13
	9/7/2017		-	5.38	-	97.02	91.64
	8/27/2018		-	7.83	-	97.02	89.19
	2/5/2020		-	6.62	-	97.02	90.40

TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628

TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-17	1/8/2009		-	5.88	-	94.96	89.08
	7/25/2012		-	9.49	-	94.96	85.47
	6/27/2013		-	5.35	-	94.96	89.61
	7/10/2014	3-13	-	NL	-	94.96	NL
	10/27/2015		-	NL	-	94.96	NL
MW-18	9/7/2017		-	NL	-	94.96	NL
	8/27/2018		-	4.14	-	94.96	90.82
	2/5/2020		-	4.00	-	94.96	90.96
	1/8/2009		-	2.48	-	91.34	88.86
	7/25/2012		-	NL	-	91.34	NL
MW-19	6/27/2013		-	2.87	-	91.34	88.47
	7/10/2014	2-12	-	3.87	-	91.34	87.47
	10/27/2015		-	1.85	-	91.34	89.49
	9/7/2017		-	1.17	-	91.34	90.17
	8/27/2018		-	1.00	-	91.34	90.34
MW-20	2/5/2020		-	0.00	-	91.34	91.34
	6/27/2013		-	4.14	-	93.01	88.87
	7/10/2014		-	6.69	-	93.01	86.32
	10/27/2015	2-12	-	4.20	-	93.01	88.81
	9/7/2017		-	4.12	-	93.01	88.89
MW-20	8/27/2018		-	2.49	-	93.01	90.52
	2/5/2020		-	2.65	-	93.01	90.36
	6/27/2013		-	9.14	-	98.84	89.70
	7/10/2014		-	11.17	-	98.84	87.67
	10/27/2015	4-14	-	8.55	-	98.84	90.29
PW-1R	9/7/2017		-	5.90	-	98.84	92.94
	8/27/2018		-	7.98	-	98.84	90.86
	2/5/2020		-	8.22	-	98.84	90.62
	1/8/2009		-	4.57	-	93.47	88.90
	7/25/2012		-	9.59	-	93.47	83.88
PW-1R	6/27/2013		-	4.80	-	93.47	86.67
	7/10/2014	30-35	-	6.29	-	93.47	87.18
	10/27/2015		-	4.15	-	93.47	89.32
	9/7/2017		-	3.49	-	93.47	89.98
	8/27/2018		-	3.04	-	93.47	90.43
	2/5/2020		-	3.39	-	93.47	90.08

**TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-Head Elevation	Groundwater Elevation
RW-1	7/25/2012		-	10.53	-	96.15	86.62
	6/27/2013		-	6.47	-	96.15	89.68
	7/10/2014*	2-12	8.77	8.92	0.15	96.15	87.36
	10/27/2015*		6.20	6.22	0.02	96.15	89.95
	9/7/2017*		5.42	5.44	0.02	96.15	90.73
RW-2	8/27/2018		4.70	4.75	0.05	96.15	91.44
	2/5/2020		5.07	5.11	0.04	96.15	91.08
	7/25/2012		-	2.59	-	93.56	90.97
	6/27/2013		-	2.19	-	93.56	91.37
	7/10/2014	2-12	-	2.04	-	93.56	91.52
RW-3	10/27/2015		-	1.42	-	93.56	92.14
	9/7/2017		-	0.97	-	93.56	92.59
	8/27/2018		-	0.89	-	93.56	92.67
	2/5/2020		-	1.01	-	93.56	92.55
	7/25/2012*		2.56	2.61	0.05	93.22	90.65
RW-4	6/27/2013*		1.32	1.44	0.12	93.22	91.88
	7/10/2014		-	1.74	-	93.22	91.48
	10/27/2015	2-12	-	1.82	-	93.22	91.40
	9/7/2017*		0.58	1.10	0.52	93.22	92.56
	8/27/2018		1.01	1.51	0.50	93.22	92.14
RW-5	2/5/2020		1.43	3.74	2.31	93.22	91.79
	10/27/2015		-	6.30	-	96.05	89.75
	9/7/2017	2-15	-	5.51	-	96.05	90.54
	8/27/2018		-	5.12	-	96.05	90.93
	2/5/2020		-	5.28	-	96.05	90.77
RW-6	10/27/2015		-	5.95	-	95.60	89.65
	9/7/2017	2-15	-	5.13	-	95.60	90.47
	8/27/2018		4.81	4.83	0.02	95.60	90.79
	2/5/2020		4.99	5.24	0.25	95.60	90.61
	10/27/2015*		2.20	2.35	0.15	93.07	90.85
RW-6	9/7/2017*	2-15	0.65	4.90	4.25	93.07	91.78
	8/27/2018		1.79	5.29	3.50	93.07	90.76
	2/5/2020		0.75	9.89	9.14	93.07	90.95

Notes:
1. Elevations are referenced to an assumed site datum
2. Groundwater depths were measured from the top of the PVC riser pipe
3. Groundwater levels measured 2/5/2020.
4. NL = Not Located.
5. * = Groundwater elevation corrected for the presence of free phase petroleum product using a specific gravity for fuel of 0.85

TABLE 3
GROUNDWATER COC CONCENTRATION DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAGSHAN I PANTRY #11
HARDEEVILLE, SOUTH CAROLINA
MCCI PROJECT NUMBER 15-7140
SCDHEC ID NUMBER 10628

Well Number	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Naphthalene	MTBE	1,2 DCA	EDB	Total Lead	TAA	TAM	TBF	DIPE	ETBA	Ethanol	ETRE	TBA	
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	
MW-3R	1/6/2009	2,790	3,990	1,410	11,600	24,190	740	2,840	<20	<0.19	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	1,600	2,590	740	4,000	8,840	180	870	<10	<0.18	NT	2,300	180	<200	17.0	<200	<200	<200	<200	
	6/27/2013	1,000	4,500	1,100	7,600	14,200	350	200	<100	<0.03	NT	84.0	65.0	<2,500	<500	<2,000	<20,000	98.0	28.0	
	7/1/2014	1,800	3,900	940	7,500	13,440	240	820	<100	8.17	NT	2,800	130.0	<2,500	<500	<2,000	<20,000	88.0	3,180	
	10/27/2015	2,870	7,130	1,390	12,100	23,390	540	530	<500	<0.021	NT	<10,000	<500	<500	<500	<500	<20,000	<1,000	<10,000	
	9/7/2017	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
2/5/2020	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	
MW-4R	1/6/2009	4,640	5,870	1,390	3,990	15,060	<1,000	21,000	<1,000	<0.02	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	2,220	2,900	1,000	1,900	4,790	260	4,200	82	<0.02	NT	4,000	390	<100	6.32	<100	<1,000	170	23,800	
	6/27/2013	4,900	8,800	1,700	5,900	21,300	5,000	2,000	<500	<0.021	NT	2,300.0	290.0	<10,000	<1,000	<10,000	<100,000	99.0	28,800	
	7/1/2014	2,400	3,800	970	3,700	11,670	180	1,300	<100	<0.03	NT	4,000	118.0	<2,000	<500	<2,000	<20,000	99.0	11,800	
	10/27/2015	1,320	380	206	673	2,783	471	48.4	<20.0	<0.02	NT	2,600	129.0	<20.0	<20.0	<20.0	<20.0	<20.0	18.8.0	8,190
	9/7/2017	987	42.3	987	1,833.3	371.1	88.4	<20.0	<0.02	NT	1,580	48.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	18.8.0	1,810
2/5/2020	1,390	1,110	109	867	3,416.0	64.4	48.8.0	<0.02	NT	80.8	25.0	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	2.130	2,130	
1/6/2009	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	2.3.0	<5.0	<0.02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
7/2/2012	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	8.9	<5.0	<0.02	NT	84.0	<10	<100	8.2.0	<10	<100	<100	<100	63.0	
6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.02	NT	<10,000	<1,000	<10,000	<1,000	<10,000	<100,000	<100,000	<100,000	<10,000	
7/1/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	<1,000	
10/27/2015	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	3.8.0	<5.0	<0.02	NT	<100	<10	<50.0	<10	<100	<200	<200	<10	<100	
9/7/2017	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.02	NT	<100	<10	<50.0	<10	<100	<200	<200	<10	<100	
2/5/2020	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	3.8.0	4.8.0	<0.02	NT	49.0	<10.0	<10.0	<10.0	<100	<200	<200	<10	<100	
MW-5R	1/6/2009	17,800	22,790	1,880	18,900	52,360	<1,000	<1,000	73.0	1.8	187	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	6/27/2013	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	7/1/2014	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	10/27/2015	8,910	14,900	1,810	13,780	35,320	1,700	23.0	6.72	NT	24,600	<1,200	4,560	<12,500	<25,000	<25,000	<1,200	<12,500	<12,500	
	9/7/2017	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
2/5/2020	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	
MW-9	1/6/2009	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	<1,000	
	7/1/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<200	<200	<100	<100	
	10/27/2015	<5.0	3.3	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100	
	9/7/2017	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100	
2/5/2020	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.019	<5.0	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100		
MW-10	1/6/2009	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	3.8.0	<5.0	<0.019	11.8	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	3.8.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	
	7/1/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	3.8.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	
	10/27/2015	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
	9/7/2017	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100	
2/5/2020	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.019	<5.0	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100		
MW-11	1/6/2009	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	<5.0	22	<5.0	<5.0	BDL	<5.0	<5.0	<0.019	<5.0	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	<1,000	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	<1,000	
	7/1/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<1,000	<1,000	
	10/27/2015	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.02	NT	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100	
	9/7/2017	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
2/5/2020	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
MW-14	1/6/2009	11,800	13,780	2,420	11,000	38,320	<500	4,030	<500	<0.02	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	
	7/2/2012	9,300	15,000	3,300	14,000	41,500	540	1,900	<500	<0.02	NT	9,900.0	460.0	<5,000	<500	<5,000	<50,000	69.0	3,300.0	
	6/27/2013	8,800	4,500	1,800	8,800	19,100	240.0	900	<200	<0.02	NT	6,900	310.0	<5,000	<500	<5,000	<50,000	68.0	2,600.0	
	7/1/2014	9,800	31,900	3,790	19,000	63,500	960.0	1,400	<500	<0.02	NT	7,900.0	830.0	<20,000	<1,000	<20,000	<200,000	178.0	3,600.0	
	10/27/2015	2,480	2,480	791	2,910	9,091	473	176	1.8.0	<125	47.3	2,480	140.0	<1,250	<125	<1,250	<5,000	<5,000	<250	4,880
	9/7/2017	48.1	4.2.0	30.8	8.2	89.3.0	3.2.0	1.8.0	<5.0	<0.02	NT	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100
2/5/2020	8.2	3.8.0	8.4	11.3	25.8.0	<5.0	<5.0	<5.0	<0.019	<5.0	<100	<10.0	<50.0	<10	<100	<200	<200	<100	<100	

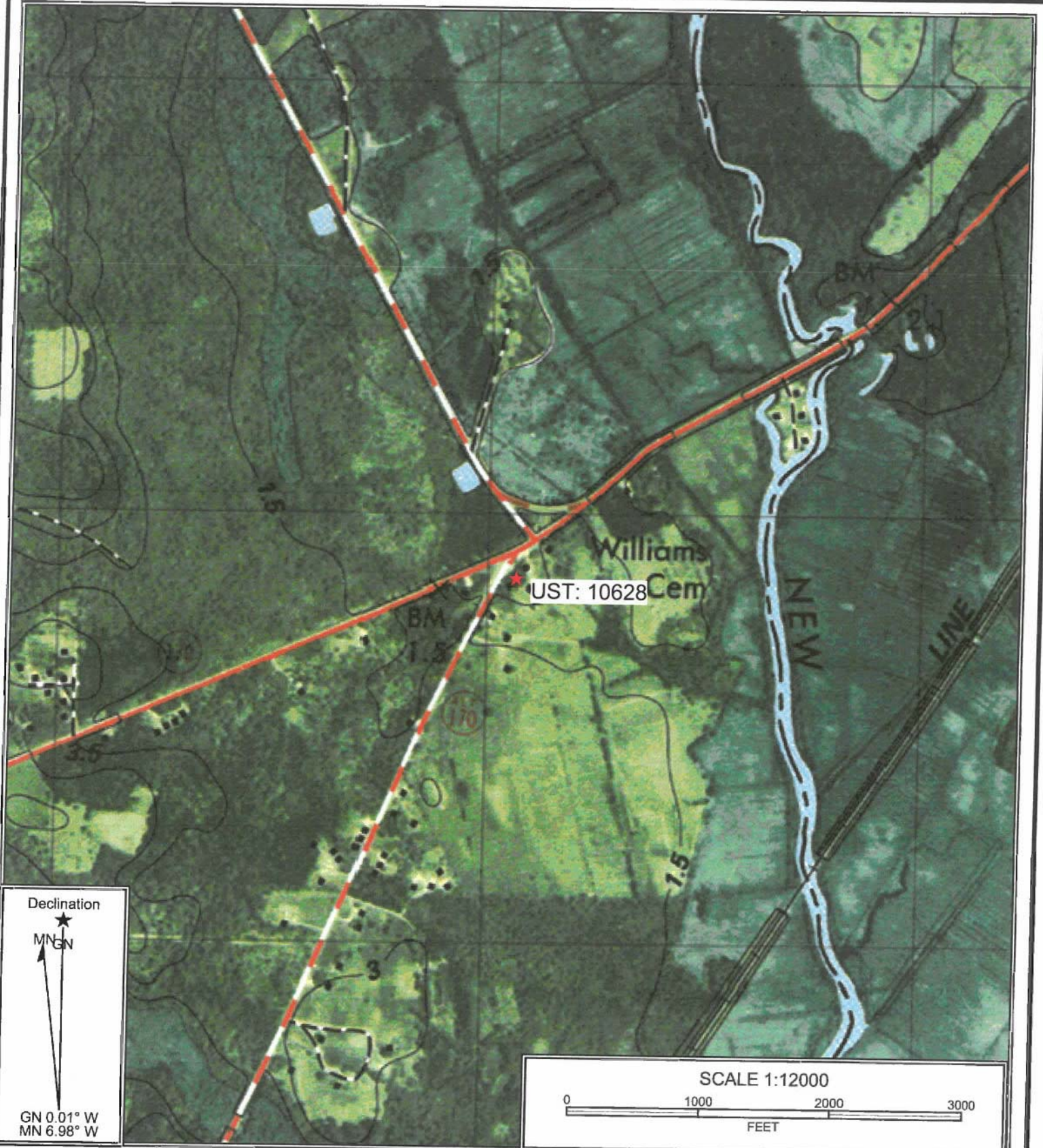
TABLE 3
GROUNDWATER COC CONCENTRATION DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREE ANSHANI PATRY B11
HARDEEVILLE, SOUTH CAROLINA
MCI PROJECT NUMBER 16-7146
SCDHCC ID NUMBER 10629

Well Number	Sample Date	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	1,4-DCA (ug/l)	EDS (ug/l)	Total Lead (ug/l)	TAA (ug/l)	TAME (ug/l)	TBF (ug/l)	DFE (ug/l)	ETEA (ug/l)	Ethanol (ug/l)	ETBE (ug/l)	TBA (ug/l)	
MW-15	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	2.2J	<5.0	<0.019	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	1.1J	2.6J	<5.0	2.1J	5.2J	<5.0	1.2J	<5.0	<0.019	NT	13J	<10	<100	0.66J	<100	<1,000	<100	27J	
	6/27/2013	0.51J	<5.0	<5.0	<5.0	<5.0	0.75J	<5.0	<0.020	NT	NT	<10	<100	<10	<100	<1,000	<100	<100	100	
	7/10/2014	0.66J	<5.0	<5.0	<5.0	<5.0	0.87J	<5.0	<0.020	NT	NT	12J	<10	<100	0.65J	<100	<1,000	<100	26J	
	10/27/2015	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019	NT	11J	<10.0	<50.0	<5.0	<100	<200	<10.0	<100	<100	<100
MW-16	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.021	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	0.30J	<5.0	<5.0	<5.0	0.36J	<5.0	<5.0	<0.019	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<100	<100	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<100	<100	
	7/10/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<100	<100	
	10/27/2015	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019	NT	<100	<10.0	<100	<5.0	<100	<200	<10.0	<100	<100	<100
MW-17	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	0.23J	<5.0	<5.0	<5.0	0.23J	<5.0	<5.0	<0.020	NT	<100	<10	<100	3.6J	<100	<1,000	<1,000	<100	NT	
	6/27/2013	250	<5.0	<5.0	<5.0	361	<5.0	<5.0	<0.020	NT	250J	8.4J	<500	186	<500	<5,000	<5,000	1.4J	<500	
	7/10/2014	NT	<5.0	<5.0	<5.0	NT	<5.0	<5.0	<0.020	NT	NT	NT	NT	NT	NT	<1,000	<1,000	NT	NT	
	10/27/2015	NT	<5.0	<5.0	<5.0	NT	<5.0	<5.0	<0.020	NT	NT	NT	NT	NT	NT	<1,000	<1,000	NT	NT	
MW-18	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.023	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	NT	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	NT	NT	NT	NT	NT	<1,000	<1,000	<100	NT	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	6.5J	<100	<1,000	<1,000	<100	NT	
	7/10/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	6.5J	<100	<1,000	<1,000	<100	NT	
	10/27/2015	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10.0	<100	5.1	<100	<200	<10.0	<100	<100	<100
MW-19	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	NT	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	76J	<10	<100	10	<100	<1,000	<1,000	<100	118	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10.0	<100	5.0	<100	<200	<10.0	<100	<100	
	7/10/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10.0	<100	5.0	<100	<200	<10.0	<100	<100	
	10/27/2015	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.019	NT	<100	<10.0	<100	5.0	<100	<200	<10.0	<100	<100	
MW-20	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.022	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	NT	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	279	<10	<100	65	<100	<1,000	<1,000	<100	182	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10.0	<100	5.0	<100	<200	<10.0	<100	<100	
	7/10/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10.0	<100	5.0	<100	<200	<10.0	<100	<100	
	10/27/2015	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.019	NT	<100	<10.0	<100	21.9	<100	<200	<10.0	<100	<100	
PW-1R	1/8/2020	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020	<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/25/2012	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<100	NT	
	6/27/2013	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<100	<100	
	7/10/2014	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<1,000	<100	<100	
	10/27/2015	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020	NT	<100	<10.0	<100	<5.0	<100	<200	<10.0	<100	<100	
RW-1	1/8/2020	31,800	32,000	2,800	13,000	78,300	519J	<1,000	1,300	1.2	NT	83,600	<2,000	<20,000	12,200	<20,000	<200,000	<20,000	<20,000	
	6/27/2013	37,800	31,800	2,600	11,000	71,500	610J	<1,000	<1,000	0.89P	NT	84,800	<2,000	<20,000	10,800	<20,000	<200,000	<20,000	<20,000	
	7/10/2014	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD
	10/27/2015	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD
	3/5/2020	140	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD	PRCD
RW-2	7/25/2012	140	3.4J	67	89	283.4J	8.7	13	<5.0	<0.020	NT	41J	1.8J	<100	<10	<100	<1,000	2.6J	310	
	6/27/2013	1,800	110	870	870	3,650	196	140	<5.0	<0.020	NT	194	<100	<100	<100	<2,000	<20,000	6.3J	5,200	
	7/10/2014	2,100	2,900	820	2,100	7,520	210	470	<5.0	<0.020	NT	1,300J	88J	<2,000	<200	<2,000	<20,000	<20,000	1,610	
	10/27/2015	2.6J	<5.0	<5.0	<10.0	25.2	<5.0	3.8J	<5.0	<0.020	NT	158	<10.0	<50.0	<5.0	<100	<500	<10.0	<100	220
	3/5/2020	47.6	22.1	71.8	37.5	129.8	5.9	27.7	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100	

**TABLE 3
GROUNDWATER COC CONCENTRATION DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEKSHANI / PANTY 111
HARDEEVILLE, SOUTH CAROLINA
MCCI PROJECT NUMBER 16-7148
SCDHEC ID NUMBER 16028**

Well Number	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Naphthalene	MTBE	1,2 DCA	EDB	Total Lead	TAA	TAME	TEF	DEPE	ETBA	Ethanol	THA	
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
RW-3	7/25/2012	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	
	8/27/2013	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	
	7/15/2014	19,000	39,500	3,900	22,800	74,800	930 J	1,800	380 J	<0.020	NT	7,000 J	910 J	<20.000	<2.000	<20.000	<20.000	290 J	4,900 J
	10/27/2015	12,400	10,200	624	1,680	34,804	<500	1,430	<500	<0.020	NT	<10,000	<800 J	<0.000	<500	<10,000	<20,000	<500	PROCD
	8/7/2017	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	8/27/2018	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	3/5/2020	25,200	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
RW-4	10/27/2015	19,000	18,500	1,580	8,850	47,930	1,360	<1,250	470 J	1.8	NT	48,300	<2,500	<12,500	4,320	<25,000	<60,000	<2,500	<25,000
	8/7/2017	19,200	18,000	1,380	8,390	48,970	1,480	<25	390 J	0.77	NT	32,800	<1,250	<4,250	4,640	<12,500	<25,000	<1,250	<12,500
	8/27/2018	7,550	5,430	251	5,960	18,181	1,180	<250	<250	0.20	NT	5,300	<500	<2,500	1,910	<5,000	<10,000	<900	<5,000
	3/5/2020	10,300	11,100	811	4,440	24,671	873	<500	<500	<0.020	NT	<10,000	<1,000	<5,000	3,820	<10,000	<20,000	<1,000	<10,000
RW-6	10/27/2015	19,200	16,200	1,520	7,490	41,420	925 J	<1,000	687 J	0.89	NT	63,400	<2,000	<10,000	6,330	<20,000	<40,000	<2,000	<20,000
	8/7/2017	23,700	12,700	1,730	8,890	46,380	1,220	<1,000	910 J	0.63	NT	29,600	<2,000	<10,000	6,140	<20,000	<40,000	<2,000	<20,000
	8/27/2018	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	3/5/2020	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
RW-6	10/27/2015	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	8/7/2017	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	8/27/2018	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	3/5/2020	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
WSW-1	1/9/2009	<5.0	<5.0	<5.0	<10.0	IDL	<5.0	<5.0	<5.0	<0.019	NT	NT	NT	NT	NT	NT	NT	NT	NT
	7/25/2012	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.019	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	8/27/2013	<1.0	<1.0	<1.0	<1.0	IDL	<1.0	<1.0	<1.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	7/15/2014	<1.0	<1.0	<1.0	<1.0	IDL	<1.0	<1.0	<1.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	10/27/2015	<1.0	<1.0	<1.0	<2.0	IDL	<1.0	<1.0	<1.0	<0.020	NT	<100	<10.0	<50.0	<10	<100	<200	<10.0	<100
	8/7/2017	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	8/27/2018	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	3/5/2020	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
MAN-1 Dup	7/15/2014	1,600	3,900	1,000	7,000	13,500	220	590	<100	0.28	NT	2,800	<100	<200	<200	<2,000	<20,000	60 J	3,000
RW-1 Dup	7/25/2012	30,000	30,000	2,700	23,000	74,700	900	53 J	1,500	0.84	NT	64,000	<1,500	<10,000	12,000	<10,000	<100,000	<10,000	5,000
RW-1 Dup	8/27/2013	1,900	890	890	3,760	190	140	<0.020	NT	NT	690 J	30 J	<1,000	<100	<1,000	<20,000	<10,000	34 J	4,700
RW-2 Dup	10/27/2015	19,200	18,600	1,990	8,950	48,740	987 J	<1,000	700 J	0.44	NT	63,600	<2,000	<10,000	7,270	<20,000	<40,000	<2,000	<20,000
DUP-1 (RW-2)	8/7/2017	31.2	<5.0	8.4	<5.0	8.4	3.3	1.4	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<5.0	<100
WSW DUP(WSW-1)	8/7/2017	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
DUP-1 (MAN-1)	8/27/2018	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
DUP-1 (RW-4)	3/5/2020	16,800	14,140	1,480	7,740	40,660	1,240	66 J	287 J	<0.020	NT	23,200	<1,250	<4,250	6,170	<12,500	<25,000	<1,250	<12,500
WSW DUP(WSW-1)	2/5/2020	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
Field Blank	7/25/2012	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	8/27/2013	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	7/15/2014	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	10/27/2015	<5.0	<5.0	<5.0	<10.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	8/7/2017	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	8/27/2018	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	8/27/2018	<5.0	0.26 J	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	3/5/2020	<0.50	0.26 J	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	3/5/2020	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	3/5/2020	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
Tip Blank	7/25/2012	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	8/27/2013	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	7/15/2014	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10	<100	<10	<100	<1,000	<100	<100
	10/27/2015	<5.0	<5.0	<5.0	<10.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	8/7/2017	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<5.0	<100	<200	<10.0	<100
	8/27/2018	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	8/27/2018	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	3/5/2020	<5.0	<5.0	<5.0	<5.0	IDL	<5.0	<5.0	<5.0	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100
	3/5/2020	<0.50	<0.50	<0.50	<0.50	IDL	<0.50	<0.50	<0.50	<0.020	NT	<100	<10.0	<50.0	<1.0	<100	<200	<1.0	<100

FIGURES

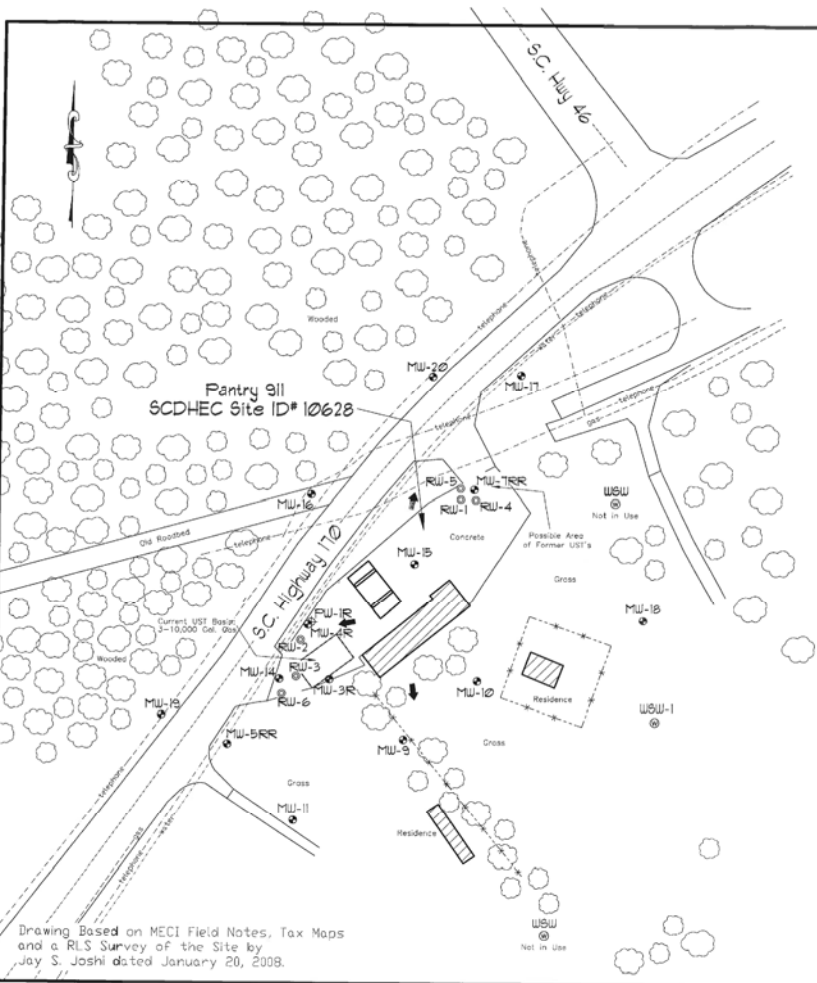


Declination
 ★
 MN
 GN
 GN 0.01° W
 MN 6.98° W

SCALE 1:12000
 0 1000 2000 3000
 FEET

Reference: Limehouse and Hardeeville, South Carolina
 Jasper and Pritchardville, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval-1.5 Meters

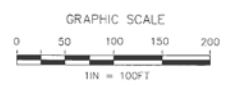
<p>Midlands Environmental Consultants, Inc.</p>	<p>Site Location</p>
<p>Pantry 911 6195 South Okatie Highway, Hardeeville, SC SCDHEC Site ID# 10628</p>	
<p>Figure 1</p>	<p>MECI 19-7148</p>



Explanation:

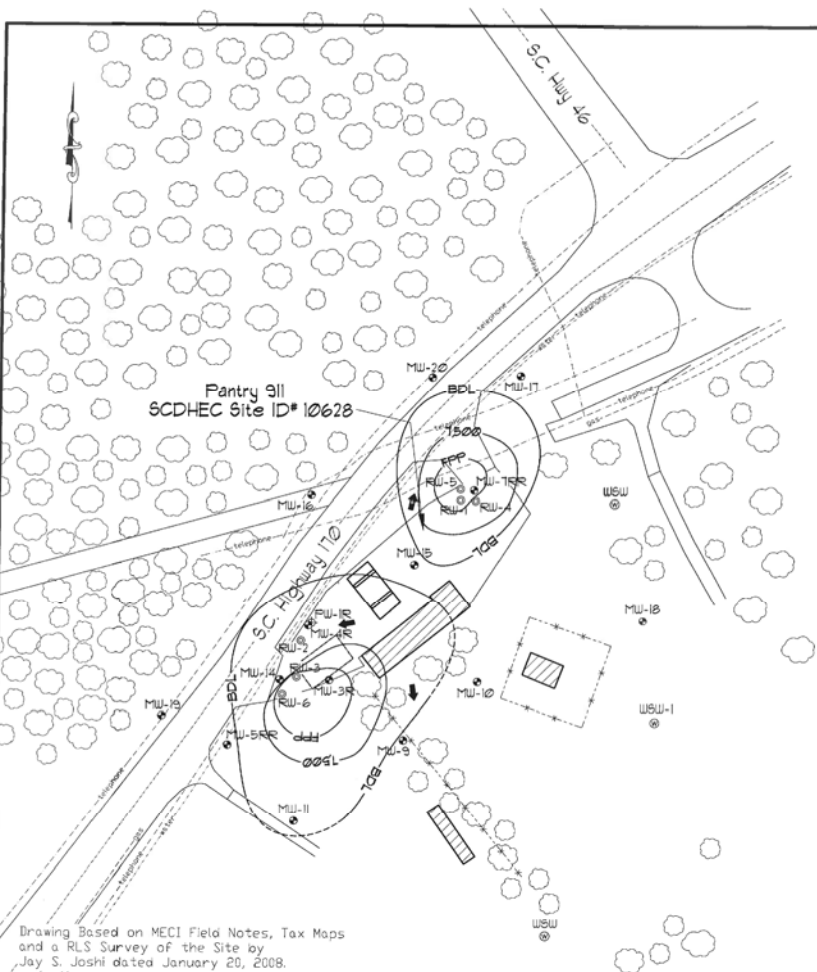
- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased Monitoring Well
- Location of 4-Inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Buried Water Line
- Under Ground Telephone

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.



ALL LOCATIONS ARE APPROXIMATE

Site Base Map	
Pantry 911 6135 S. Okatie Highway Hardeeville, South Carolina SCDHEC Site ID 10628	
	JOB NO. 13-7148 DATE February 20, 2020 FIGURE
2	



Explanation:

- ⊙ Location of Waterable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of 4-Inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

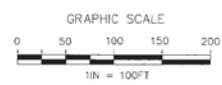
Benzene Concentration Isopleth (ug/l)

Well ID#	Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		Napthalene		MFR		1,2-D CA		EPA	
	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-20	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-18	1,350	1,110	109	847	3,416	644	48.6	42.5	-0.020									
MW-16R	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-17R	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-10	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-11	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-14	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-16	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-17	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-15R	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
RW-1	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-2	47.6	32.1	11.9	37.5	129.0	5.9	27.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
RW-3	21.00	28.00	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-4	10,380	11,500	811	4,480	26,471	873	<500	<550	<570	<580	<590	<600	<610	<620	<630	<640	<650	<660
RW-5	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-6	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
WSW-1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DUP-1 (GW-4)	16,500	16,100	1,460	7,740	40,800	1,200	<625	287.1	<620	<615	<610	<605	<600	<595	<590	<585	<580	<575
Field Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T-10 Blank	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
WSW	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes: Groundwater samples collected on February 5, 2020.
 Isopleth Interval = 7,500 ug/l
 BDL = Below Detection Limits
 Monitoring wells MW-10 and MW-11 not used in Isopleth data.
 NL = Not Located
 NT = Not Tested
 PROD = Free Phase Petroleum Detected
 Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Groundwater CoC Site Map (Benzene Isopleth)

Pantry 911
 6195 S. Okatie Highway
 Hardeeville, South Carolina
 SCDHEC Site ID 10628

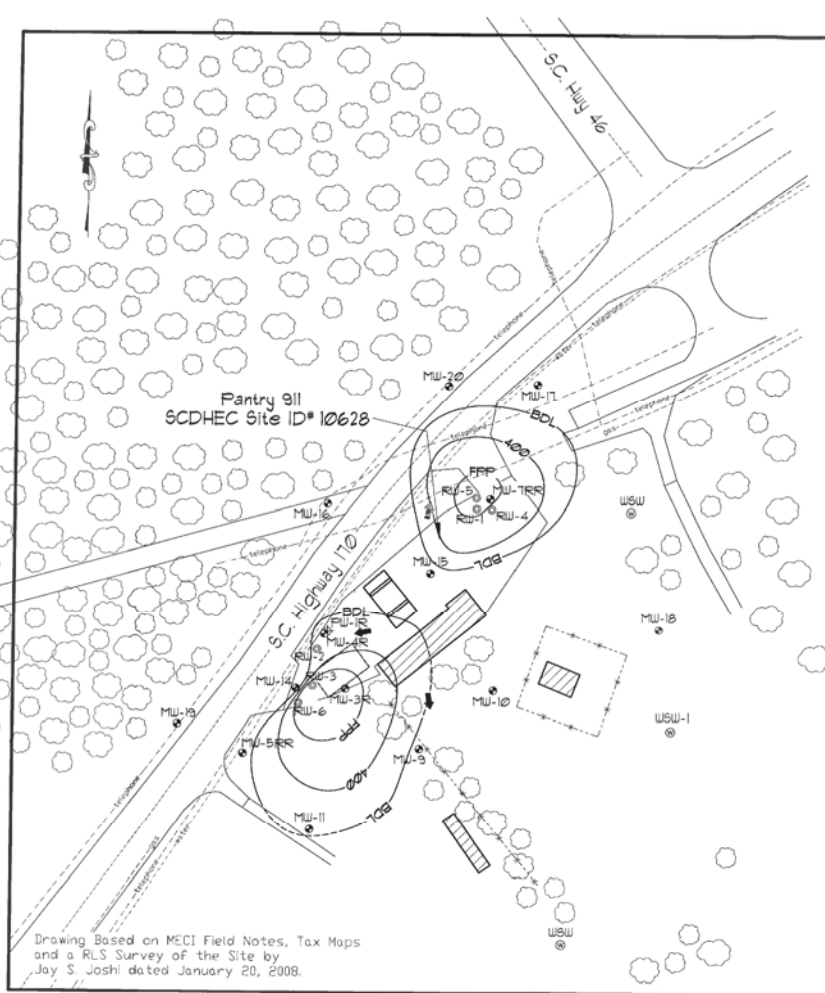


ALL LOCATIONS ARE APPROXIMATE

Midlands Environmental Consultants, Inc.

JOB NO. 19-2148
 DATE February 20, 2020
 FIGURE 4

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.



Explanation:

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- ⊗ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

Naphthalene Concentration Isoleth (ug/l)

Well/ID	GROUNDWATER COC CONCENTRATION DATA									
	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	Total BTEX (ppb)	Naphthalene (ppb)	MTBE (ppb)	1,2 DCA (ppb)	EOB (ppb)	RSBL (ppb)
MW-3R	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-4R	1,350	1,110	199	847	3,416.0	84.4	48.6J	<0.5	<0.00	<0.00
MW-5RR	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-9	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-10	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-11	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW-14	5.0J	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-15	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-16	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-17	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-18	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-19	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
MW-20	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
RW-1R	<5.0	<5.0	<5.0	<5.0	EOL	<5.0	<5.0	<5.0	<0.00	<0.00
RW-1	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-2	47.5	32.1	11.9	37.5	129.8	5.9	27.7	<5.0	<0.00	<0.00
RW-3	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-4	13,209	11,190	811	4,480	26,671	571	<500	<500	<0.00	<0.00
RW-5	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-6	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
WSW-1	<0.50	<0.50	<0.50	<0.50	EOL	<0.50	<0.50	<0.50	<0.00	<0.00
DUP-1 (RW-4)	15,508	14,100	1,440	7,748	43,800	1,228	<625	287J	<0.00	<0.00
WSW DUP(WSW-1)	<0.50	<0.50	<0.50	<0.50	EOL	<0.50	<0.50	<0.50	<0.00	<0.00
Field Blank	<0.5	<0.5	<0.5	<0.5	EOL	<0.5	<0.5	<0.5	<0.00	<0.00
WSW	<0.50	0.39J	<0.50	<0.50	0.39J	<0.50	<0.50	<0.50	<0.00	<0.00
Tap Blank	<0.5	<0.5	<0.5	<0.5	EOL	<0.5	<0.5	<0.5	<0.00	<0.00
WSW	<0.50	<0.50	<0.50	<0.50	EOL	<0.50	<0.50	<0.50	<0.00	<0.00

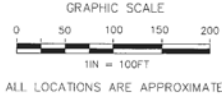
Notes: Groundwater samples collected on February 5, 2020.
 Isoleth interval = 700 ug/l
 BDL = Below Detection Limits
 Monitoring wells MW-10 and MW-11 not used in Isoleth data.
 NL = Not Located
 NT = Not Tested
 PROD = Free Phase Petroleum Detected
 Isoleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Groundwater CoC Site Map
(Naphthalene Isoleth)

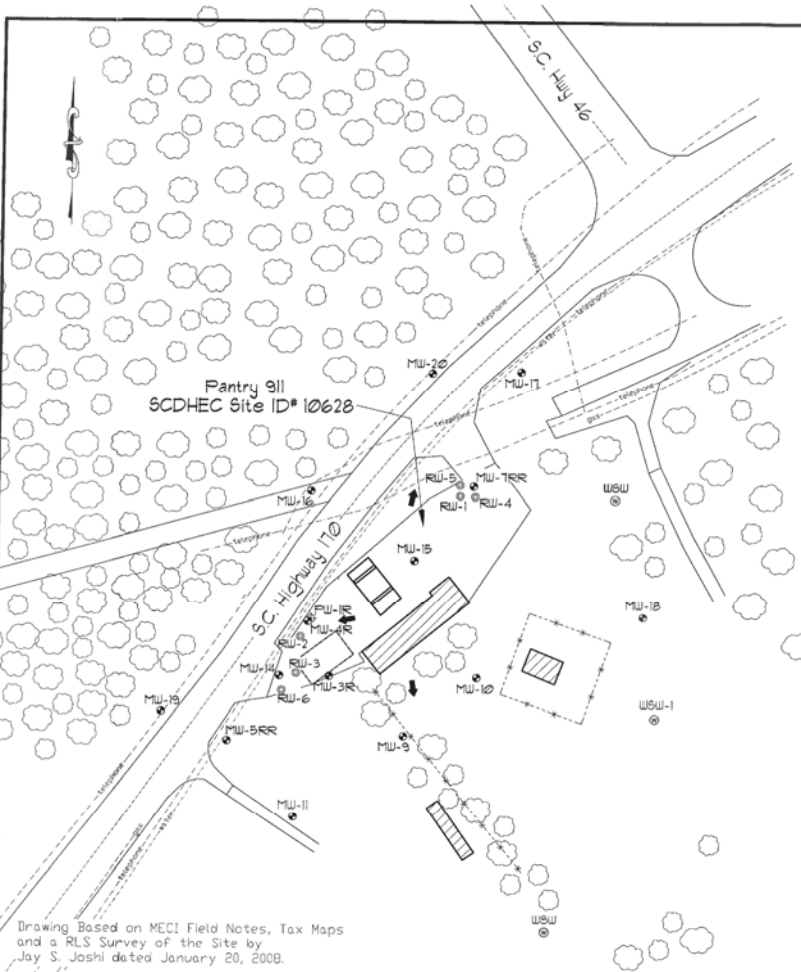
Pantry 911
6195 S. Okatie Highway
Hardeeville, South Carolina
SCDHEC Site ID 10628

Midlands Environmental Consultants, Inc.

JOB NO. 13-2148
DATE February 25, 2020
FIGURE
4A



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.



Explanation:

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of 4-Inch Recovery Well
- ⊗ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks

GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)

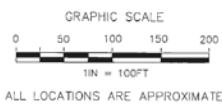
Well ID#	TAA (ppb) RBSL 240	TAME (ppb) RBSL 128	ETBA (ppb) RBSL NE	TBA (ppb) RBSL 1,400	TBF (ppb) RBSL NE	DIPE (ppb) RBSL 150	Ethanol (ppb) RBSL 10,000	ETBE (ppb) RBSL 47
MW-3R	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-4R	<1,250	<125	<1,250	2,138	<625	<62.5	<2,500	<125
MW-SRR	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-7RR	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
MW-9	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-10	NL	NL	NL	NL	NL	NL	NL	NL
MW-11	NL	NL	NL	NL	NL	NL	NL	NL
MW-14	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-15	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-16	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-17	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-18	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-19	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
MW-20	<100	<10.0	<100	<100	<50.0	24.9	<200	<10.0
PW-1R	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
RW-1	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-2	<100	<10.0	<100	1,418	<50.0	<5.0	<200	8.57
RW-3	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-4	<10,000	<1,000	<10,000	<10,000	<5,000	1,833	<20,000	<1,000
RW-5	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
RW-6	PROD	PROD	PROD	PROD	PROD	PROD	PROD	PROD
WSW-1	<100	<10.0	<100	<100	<50.0	<1.0	<200	<10.0
WSW-DUP(WSW-1)	23,200	<1,250	<12,500	<12,500	<6,250	<418	<20,000	<1,250
Field Blank	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
WSW	<100	<10.0	<100	<100	<50.0	<1.0	<200	<10.0
Trp Blank	<100	<10.0	<100	<100	<50.0	<5.0	<200	<10.0
WSW	<100	<10.0	<100	<100	<50.0	<1.0	<200	<10.0

Notes: Groundwater samples collected on February 5, 2020.

- DIPE = Diisopropyl Ether
- ETBE = Ethyl tert-butyl Ether
- TAA = tert-Amyl Alcohol
- TAME = tert-Amyl Methyl Ether
- TBA = tert-Butyl Alcohol
- TBF = tert-Butyl Formate

Groundwater COC Site Map (Oxygenates)

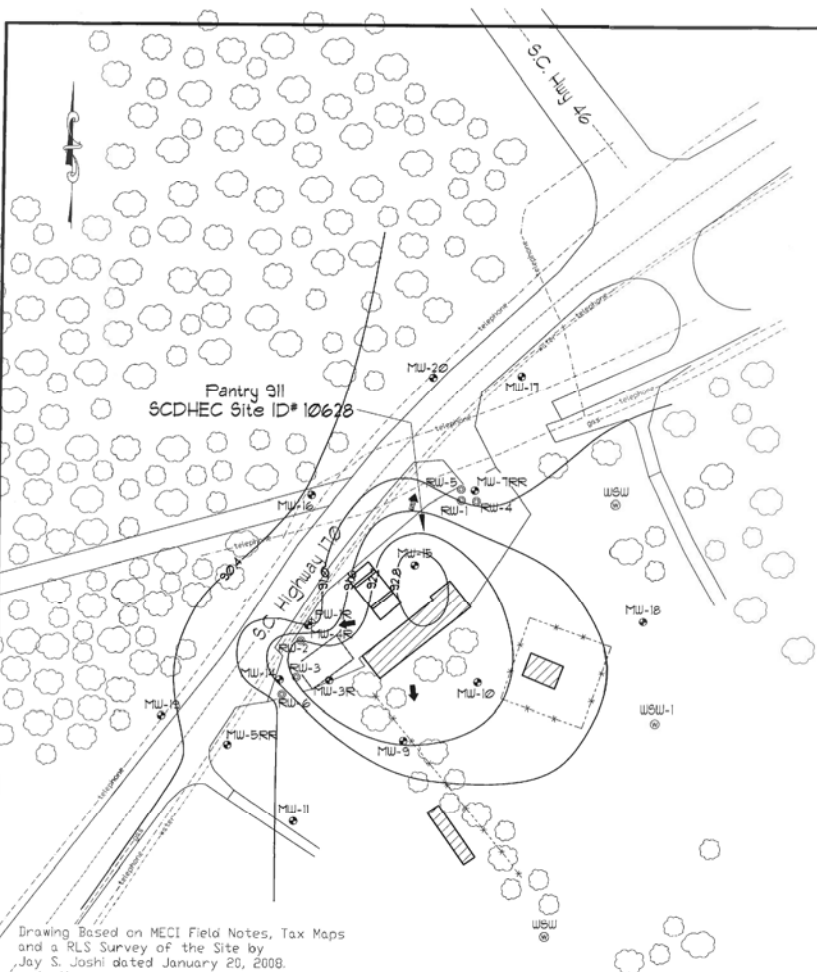
Panty 911
6195 S. Okatie Highway
Hardeeville, South Carolina
SCDHEC Site ID 10628



Midlands
Environmental
Consultants, Inc.

JOB NO. 19-1144
DATE February 20, 2020
FIGURE 4B

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.



Explanation:

- ⊙ Location of Water Table Bracketing Monitoring Well
 - ⊕ Location of Double Cased "Deep" Monitoring Well
 - ⊙ Location of 4-Inch Recovery Well
 - ⊙ Location of Water Supply Well
 - ↑ Estimated Groundwater Flow Direction
 - Estimated Location of Removed Underground Storage Tanks
- Groundwater Elevation Contour (feet)

POTENTIOMETRIC DATA						
Well Number	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-3R	2-12	1.75	3.91	2.16	94.56	92.81
MW-4R	5-15	-	3.30	-	93.75	90.45
MW-5RR	2-12	-	1.70	-	92.18	90.48
MW-7RR	2-12	4.98	4.99	0.01	95.80	90.82
MW-9	8-18	-	4.52	-	96.73	92.21
MW-10	2-12	-	NL	-	93.29	NL
MW-11	2-12	-	NL	-	91.62	NL
MW-14	3.05-13.05	-	1.39	-	93.23	91.84
MW-15	2-12	-	2.79	-	96.12	93.33
MW-16	7-17	-	6.62	-	97.02	90.40
MW-17	3-13	-	4.00	-	94.96	90.96
MW-18	2-12	-	0.00	-	91.34	91.34
MW-19	2-12	-	2.05	-	93.01	90.36
MW-20	4-14	-	8.22	-	98.84	90.62
PW-1R	30-35	-	3.39	-	93.47	90.08
RW-1	2-12	5.07	5.11	0.04	96.15	91.08
RW-2	2-12	-	1.01	-	93.56	92.55
RW-3	2-12	1.43	3.74	2.31	93.22	91.79
RW-4	2-15	-	5.28	-	96.05	90.77
RW-5	2-15	4.99	5.24	0.25	95.60	90.61
RW-6	2-15	0.75	9.89	9.14	93.07	90.95

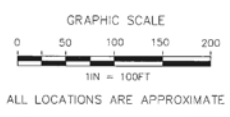
Notes: Depth to groundwater measured on February 5, 2020
 Site Datum Based on Assumed Spot Elevation.
 Contour Interval = 0.6 Feet
 Monitoring wells MW-10 and MW-11 not used in contouring.
 Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Potentiometric Data Site Map
(Groundwater Contour)

Pantry 911
6155 S. Okatie Highway
Hartsville, South Carolina
SCDHEC Site ID 10628

Midlands
Environmental
Consultants, Inc.

JOB NO. 19-7148
DATE February 25, 2020
FIGURE 5



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.

APPENDIX A:

SITE SURVEY

(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

**Monitoring Well Purge
 And Sampling Data**

Field Personnel: B.G. BP
 Sampling Dates: 2/5/2020
 Sampling Cases: 1

Job Name: Shreejyoti
 Job Number: 19-7148

Calibration Data for:
 pH: Yes or No (Please Circle)
 Conductivity: Yes or No
 Dissolved Oxygen: Yes or No
 Turbidity: Yes or No
 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				
Mn-3R	Initial	12:11	5.63	174.0	20.5	1.11	22.97			2			
	1st	12:13	5.54	186.1	21.2	0.84	61.42	1.75	3.92	1	7.11	10	odor
	2nd	12:15	5.49	191.4	21.3	0.87	54.11			1	1.91		
	3rd	12:17	5.43	196.7	21.5	0.81	43.14			1	1.68		
	4th	12:19	5.38	201.4	21.4	0.76	30.24			1	1.68		
	5th	12:21	5.40	191.7	21.5	0.79	25.16			1	1.68		
Mn-4R	Initial	10:42	5.99	394.3	17.2	2.62	24.56			2			
	1st	10:44	5.77	406.2	17.7	2.31	58.31	1.70		2	8.39		slight odor
	2nd	10:45	5.68	411.6	18.3	2.17	42.66			2			
	3rd	10:47	5.63	414.7	18.4	2.09	31.49			2			
	4th	10:48	5.67	418.1	18.5	1.96	27.16			2			
	5th	10:50	5.66	416.3	18.5	1.92	25.91			2			
Mn-7RR	Initial	10:54	5.99	394.3	17.2	2.62	24.56			2			
	1st	10:56	5.77	406.2	17.7	2.31	58.31	1.70		2	8.39		slight odor
	2nd	10:58	5.68	411.6	18.3	2.17	42.66			2			
	3rd	10:59	5.63	414.7	18.4	2.09	31.49			2			
	4th	11:00	5.67	418.1	18.5	1.96	27.16			2			
	5th	11:01	5.66	416.3	18.5	1.92	25.91			2			

* (Depth of Well) - (Depth to Water) = Water Height
 One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.56 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#	PW/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201307183
Case #2	15E101481	14H103098	201307174
Case #3	10K101895	08B101407	201510251

Field Personnel:

RG, BP

Sampling Date(s):

2/5/2020

Sampling Case#:

1

Job Name: Shreejakashyam

Job Number: 19-7148

Monitoring Well Purge And Sampling Data

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** calc.	Gallons Purged actual	Notes
								product	initial H ₂ O					
Mn-9	Initial	11:29	5.63	301.5	19.8	1.64	26.28			18	20.5	13.35	13.5	No odor
	1st	11:31	5.47	317.4	20.6	1.42	54.67	3m:290						
	2nd	11:33	5.39	324.9	20.7	1.34	48.19	4:52						
	3rd	11:35	5.21	330.6	20.8	1.27	45.24							
	4th	11:37	5.17	334.1	20.8	1.24	32.63							
	5th	11:39	5.18	331.2	20.8	1.21	21.81							
Mn-10	Initial									2				
	1st													
	2nd													
	3rd													
	4th													
	5th													
Mn-11	Initial									2				
	1st													
	2nd													
	3rd													
	4th													
	5th													
Mn-14	Initial	10:57	6.32	362.0	17.2	1.73	27.89			12	9	9.50	9.5	Slight odor
	1st	10:59	6.24	391.2	17.9	1.51	61.24							
	2nd	11:01	6.17	387.4	18.2	1.39	50.24							
	3rd	11:03	6.11	373.3	18.4	1.31	43.61							
	4th	11:05	6.14	371.1	18.6	1.25	38.74							
	5th	11:07	6.09	365.4	18.7	1.27	30.16							

* (Depth of Well) - (Depth to Water) = Water Height
 One Well Volume = π x D² for 1" wells, π x .163 for 2" wells, π x .86 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, SU	DO SU	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K101895	08B101407	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: Bg, Bp
Sampling Date(s): 2/5/2020
Sampling Case#: 1

Job Name: Shreejyotskumar
Job Number: 19-7148

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 **calc.	actual	Notes
								product	Initial H ₂ O					
Mn-15	Initial	1:22	6.70	289.1	14.0	1.40	21.64			2				No odor
	1st	9:42	5.32	318.4	19.7	1.37	20.17			2				No odor
	2nd	9:43	5.26	321.9	20.6	1.11	46.41			7				No odor
	3rd	9:45	5.21	327.4	21.0	1.02	37.18			17				No odor
	4th	9:46	5.23	331.4	21.1	0.96	37.44			17	8.46	8.5		No odor
	5th	9:48	5.20	334.3	21.0	0.93	30.61			17	8.46	8.5		No odor
Mn-16	Initial	10:57	5.88	210.4	17.5	1.68	20.34			3				No odor
	1st	10:57	5.88	210.4	17.5	1.68	20.34			3				No odor
	2nd									3				No odor
	3rd									3				No odor
	4th									3				No odor
	5th									3				No odor
Mn-18	Initial	10:40	5.38	101.4	17.1	1.69	23.57			2				No odor
	1st	10:42	5.24	110.7	17.9	1.31	60.31			2				No odor
	2nd	10:44	5.18	114.6	18.2	1.16	46.12			2				No odor
	3rd	10:46	5.13	114.1	18.4	1.09	30.91			2				No odor
	4th	10:48	5.16	121.3	18.3	1.04	27.16			2	1.96	1.0		No odor
	5th	10:50	5.11	119.8	18.3	0.97	27.09			2	1.96	1.0		No odor

* = (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#	PwConductance SV	DO SV	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: EG, BP
 Sampling Date(s): 2/5/2020
 Sampling Cases: 1

Job Name: Shreejakashwari
 Job Number: 19-7148

Calibration Data for:
 Calibration Successful? Yes or No (Please Circle)
 pH: Yes
 Conductivity: Yes
 Dissolved Oxygen: Yes
 Turbidity: Yes
 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				
Mw-19	Initial	9:57	6.6	280.8	18.7	1.77	28.34			2			No odor
	1st												
	2nd												
	3rd												
	4th												
	5th												
Mw-20	Initial	9:53	5.78	506	20.7	1.31	23.87			4			No odor
	1st												
	2nd												
	3rd												
	4th												
	5th												
Pw-1R	Initial	11:46	6.54	205.0	20.6	1.71	23.67			30	5.15		No odor
	1st	11:50	6.50	314.4	21.1	1.31	49.81			35	25.76		No odor
	2nd	11:54	6.48	320.1	21.3	1.22	37.88						
	3rd	11:58	6.45	329.1	21.4	1.14	34.51						
	4th	12:02	6.46	322.7	21.4	1.09	30.17						
	5th	12:04	6.43	325.0	21.4	1.07	25.66						
Pw-1	Initial												
	1st												
	2nd												
	3rd												
	4th												
	5th												

* (Depth of Well) - (Depth to Water) = Water Height
 One Well Volume = π x D² x H for 1" wells, π 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 SM	DO SM	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Field Personnel:

RG, BP

Sampling Date(s):

2/5/2020

Sampling Case#:

1

Job Name:

Shreejakyshani

Job Number:

19-7/148

Monitoring Well Purge And Sampling Data

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				
Rn-2	Initial	12:14	6.10	258.4	19.1	1.53	24.79			2	65.01	7.18 35.88	36 odor
	1st	12:19	5.87	274.3	14.8	1.31	67.43						
	2nd	12:24	5.79	281.8	20.1	1.19	5.18						
	3rd	12:27	5.77	286.7	20.3	1.11	43.61						
	4th	12:34	5.69	281.4	20.4	1.04	34.11	10.1					
	5th	12:39	5.67	307.9	20.4	0.99	27.14						
Rn-3	Initial									2			
	1st												
	2nd												
	3rd												
	4th												
	5th												
Rn-4	Initial	11:15								2			odor shreen Duf
	1st												
	2nd												
	3rd												
	4th												
	5th												
Rn-5	Initial									2			
	1st												
	2nd												
	3rd												
	4th												
	5th												

** (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#	PN/Conductance SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K101895	08B101407	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: BG, BP
 Sampling Date(s): 2/5/2020
 Sampling Case#: 1

Job Name: Shreejashwan'
 Job Number: 19-7148

Calibration Data for:
 Calibration Successful? Yes or No (Please Circle)
 pH: Yes
 Conductivity: Yes
 Dissolved Oxygen: Yes
 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 **calc.	actual	Notes
								product	Initial H ₂ O					
Ru-6	Initial													
	1st													
	2nd													
	3rd													
	4th													
	5th													
Dyp-1	Initial													
	1st	11:15												
	2nd													
	3rd													
	4th													
	5th													
Dyp-2	Initial													
	1st	12:42												
	2nd													
	3rd													
	4th													
	5th													
FB	Initial													
	1st													
	2nd													
	3rd													
	4th													
	5th													
TB	Initial													
	1st													
	2nd													
	3rd													
	4th													
	5th													
wsw-1	Initial													
	1st	13:00												
	2nd	13:01												
	3rd													
	4th	13:05												
	5th	13:05												
D-P/wsw	Initial													
	1st	13:00												
	2nd	13:01												
	3rd													
	4th	13:05												
	5th	13:05												
FB	Initial													
	1st													
	2nd													
	3rd													
	4th													
	5th													
TB	Initial													
	1st													
	2nd													
	3rd													
	4th													
	5th													

* (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#	Pw/Conductance SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K101895	08B101407	201510251

February 14, 2020

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92464439001	MW-4R	Water	02/05/20 12:21	02/07/20 15:50
92464439002	MW-5RR	Water	02/05/20 10:50	02/07/20 15:50
92464439003	MW-9	Water	02/05/20 11:39	02/07/20 15:50
92464439004	MW-14	Water	02/05/20 11:07	02/07/20 15:50
92464439005	MW-15	Water	02/05/20 11:22	02/07/20 15:50
92464439006	MW-16	Water	02/05/20 09:48	02/07/20 15:50
92464439007	MW-17	Water	02/05/20 10:57	02/07/20 15:50
92464439008	MW-18	Water	02/05/20 10:50	02/07/20 15:50
92464439009	MW-19	Water	02/05/20 09:57	02/07/20 15:50
92464439010	MW-20	Water	02/05/20 09:53	02/07/20 15:50
92464439011	PW-1R	Water	02/05/20 12:04	02/07/20 15:50
92464439012	RW-2	Water	02/05/20 12:39	02/07/20 15:50
92464439013	RW-4	Water	02/05/20 11:15	02/07/20 15:50
92464439014	Dup-1	Water	02/05/20 11:15	02/07/20 15:50
92464439015	FB	Water	02/05/20 12:42	02/07/20 15:50
92464439016	TB	Water	02/05/20 12:43	02/07/20 15:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92464439001	MW-4R	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439002	MW-5RR	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439003	MW-9	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439004	MW-14	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439005	MW-15	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439006	MW-16	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439007	MW-17	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439008	MW-18	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439009	MW-19	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439010	MW-20	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439011	PW-1R	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439012	RW-2	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439013	RW-4	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92464439014	Dup-1	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	GAW	20	PASI-C
92464439015	FB	EPA 8011	BAJ	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92464439016	TB	EPA 8260D	CL	20	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: MW-4R		Lab ID: 92464439001		Collected: 02/05/20 12:21		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 04:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/12/20 07:51	02/13/20 04:43	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		02/13/20 21:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		02/13/20 21:33	994-05-8	
Benzene	1350	ug/L	62.5	21.8	12.5		02/13/20 21:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		02/13/20 21:33	624-95-3	
tert-Butyl Alcohol	2130	ug/L	1250	1140	12.5		02/13/20 21:33	75-65-0	
tert-Butyl Formate	ND	ug/L	625	301	12.5		02/13/20 21:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		02/13/20 21:33	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		02/13/20 21:33	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		02/13/20 21:33	64-17-5	
Ethylbenzene	109	ug/L	62.5	23.0	12.5		02/13/20 21:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		02/13/20 21:33	637-92-3	
Methyl-tert-butyl ether	48.0J	ug/L	62.5	38.8	12.5		02/13/20 21:33	1634-04-4	
Naphthalene	64.4	ug/L	62.5	26.1	12.5		02/13/20 21:33	91-20-3	
Toluene	1110	ug/L	62.5	25.1	12.5		02/13/20 21:33	108-88-3	
Xylene (Total)	847	ug/L	62.5	62.5	12.5		02/13/20 21:33	1330-20-7	
m&p-Xylene	572	ug/L	125	51.4	12.5		02/13/20 21:33	179601-23-1	
o-Xylene	275	ug/L	62.5	25.5	12.5		02/13/20 21:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		02/13/20 21:33	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		12.5		02/13/20 21:33	17060-07-0	
Toluene-d8 (S)	100	%	70-130		12.5		02/13/20 21:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: MW-5RR		Lab ID: 92464439002		Collected: 02/05/20 10:50		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 04:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	02/12/20 07:51	02/13/20 04:55	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 17:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 17:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 17:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 17:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 17:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 17:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 17:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 17:52	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 17:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 17:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 17:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 17:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 17:52	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 17:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 17:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 17:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 17:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/12/20 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/12/20 17:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/12/20 17:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: MW-9		Lab ID: 92464439003		Collected: 02/05/20 11:39		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	02/12/20 07:51	02/13/20 05:55	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	02/12/20 07:51	02/13/20 05:55	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 15:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 15:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 15:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 15:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 15:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 15:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 15:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 15:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 15:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 15:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 15:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 15:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 15:30	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 15:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 15:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 15:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 15:30	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/12/20 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/12/20 15:30	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/12/20 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: MW-14		Lab ID: 92464439004		Collected: 02/05/20 11:07		Received: 02/07/20 15:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 06:18	106-93-4	M1	
Surrogates										
1-Chloro-2-bromopropane (S)	116	%	60-140		1	02/12/20 07:51	02/13/20 06:18	301-79-56		
8260 MSV		Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 18:10	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 18:10	994-05-8		
Benzene	5.0J	ug/L	5.0	1.7	1		02/12/20 18:10	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 18:10	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 18:10	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 18:10	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 18:10	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 18:10	108-20-3		
Ethanol	ND	ug/L	200	144	1		02/12/20 18:10	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 18:10	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 18:10	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 18:10	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 18:10	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 18:10	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 18:10	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 18:10	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 18:10	95-47-6		
Surrogates										
4-Bromofluorobenzene (S)	99	%	70-130		1		02/12/20 18:10	460-00-4		
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/12/20 18:10	17060-07-0		
Toluene-d8 (S)	105	%	70-130		1		02/12/20 18:10	2037-26-5		

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: MW-15		Lab ID: 92464439005		Collected: 02/05/20 11:22		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	02/12/20 07:51	02/13/20 06:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	02/12/20 07:51	02/13/20 06:54	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 15:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 15:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 15:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 15:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 15:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 15:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 15:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 15:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 15:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 15:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 15:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 15:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 15:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 15:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 15:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 15:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 15:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/12/20 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/12/20 15:47	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		02/12/20 15:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: MW-16		Lab ID: 92464439006		Collected: 02/05/20 09:48		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	02/12/20 07:51	02/13/20 07:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/12/20 07:51	02/13/20 07:06	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 16:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 16:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 16:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 16:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 16:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 16:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 16:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 16:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 16:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 16:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 16:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 16:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 16:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 16:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 16:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 16:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 16:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/12/20 16:05	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		02/12/20 16:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/12/20 16:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: MW-17		Lab ID: 92464439007		Collected: 02/05/20 10:57		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 07:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	02/12/20 07:51	02/13/20 07:18	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 16:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 16:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 16:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 16:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 16:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 16:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 16:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 16:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 16:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 16:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 16:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 16:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 16:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 16:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 16:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 16:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 16:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/12/20 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/12/20 16:23	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/12/20 16:23	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: MW-18 Lab ID: 92464439008 Collected: 02/05/20 10:50 Received: 02/07/20 15:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 07:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/12/20 07:51	02/13/20 07:30	301-79-56	
8260 MSV Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 16:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 16:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 16:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 16:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 16:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 16:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 16:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 16:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 16:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 16:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 16:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 16:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 16:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 16:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 16:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 16:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 16:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/12/20 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/12/20 16:41	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/12/20 16:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: MW-19 Lab ID: 92464439009 Collected: 02/05/20 09:57 Received: 02/07/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 07:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	02/12/20 07:51	02/13/20 07:41	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 16:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 16:59	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 16:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 16:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 16:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 16:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 16:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 16:59	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 16:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 16:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 16:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 16:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 16:59	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 16:59	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 16:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 16:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 16:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/12/20 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/12/20 16:59	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/12/20 16:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: MW-20		Lab ID: 92464439010		Collected: 02/05/20 09:53		Received: 02/07/20 15:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 07:53	106-93-4		
Surrogates										
1-Chloro-2-bromopropane (S)	99	%	60-140		1	02/12/20 07:51	02/13/20 07:53	301-79-56		
8260 MSV		Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 17:17	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 17:17	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 17:17	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 17:17	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 17:17	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 17:17	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 17:17	107-06-2		
Diisopropyl ether	24.9	ug/L	5.0	3.5	1		02/12/20 17:17	108-20-3		
Ethanol	ND	ug/L	200	144	1		02/12/20 17:17	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 17:17	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 17:17	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 17:17	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 17:17	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 17:17	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 17:17	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 17:17	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 17:17	95-47-6		
Surrogates										
4-Bromofluorobenzene (S)	103	%	70-130		1		02/12/20 17:17	460-00-4		
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/12/20 17:17	17060-07-0		
Toluene-d8 (S)	103	%	70-130		1		02/12/20 17:17	2037-26-5		

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: PW-1R		Lab ID: 92464439011		Collected: 02/05/20 12:04		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 08:05	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	02/12/20 07:51	02/13/20 08:05	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 17:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 17:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/12/20 17:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 17:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/12/20 17:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 17:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 17:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 17:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 17:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/12/20 17:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/12/20 17:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/12/20 17:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/12/20 17:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/12/20 17:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/12/20 17:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/12/20 17:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/12/20 17:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/12/20 17:34	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/12/20 17:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/12/20 17:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: RW-2 Lab ID: 92464439012 Collected: 02/05/20 12:39 Received: 02/07/20 15:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 08:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	02/12/20 07:51	02/13/20 08:16	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/12/20 18:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/12/20 18:28	994-05-8	
Benzene	47.5	ug/L	5.0	1.7	1		02/12/20 18:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/12/20 18:28	624-95-3	
tert-Butyl Alcohol	1410	ug/L	100	91.0	1		02/12/20 18:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/12/20 18:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/12/20 18:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/12/20 18:28	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/12/20 18:28	64-17-5	
Ethylbenzene	11.9	ug/L	5.0	1.8	1		02/12/20 18:28	100-41-4	
Ethyl-tert-butyl ether	8.9J	ug/L	10.0	8.5	1		02/12/20 18:28	637-92-3	
Methyl-tert-butyl ether	27.7	ug/L	5.0	3.1	1		02/12/20 18:28	1634-04-4	
Naphthalene	5.9	ug/L	5.0	2.1	1		02/12/20 18:28	91-20-3	
Toluene	32.1	ug/L	5.0	2.0	1		02/12/20 18:28	108-88-3	
Xylene (Total)	37.5	ug/L	5.0	5.0	1		02/12/20 18:28	1330-20-7	
m&p-Xylene	24.5	ug/L	10.0	4.1	1		02/12/20 18:28	179601-23-1	
o-Xylene	12.9	ug/L	5.0	2.0	1		02/12/20 18:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/12/20 18:28	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/12/20 18:28	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/12/20 18:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: RW-4		Lab ID: 92464439013		Collected: 02/05/20 11:15		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 23:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	02/12/20 07:51	02/13/20 23:51	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	10000	6560	100		02/13/20 22:26	75-85-4	M1,R1
tert-Amylmethyl ether	ND	ug/L	1000	304	100		02/13/20 22:26	994-05-8	
Benzene	10300	ug/L	500	174	100		02/13/20 22:26	71-43-2	M1,R1
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5390	100		02/13/20 22:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	9100	100		02/13/20 22:26	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2410	100		02/13/20 22:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	206	100		02/13/20 22:26	107-06-2	
Diisopropyl ether	3030	ug/L	500	349	100		02/13/20 22:26	108-20-3	M1,R1
Ethanol	ND	ug/L	20000	14400	100		02/13/20 22:26	64-17-5	
Ethylbenzene	811	ug/L	500	184	100		02/13/20 22:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	846	100		02/13/20 22:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	310	100		02/13/20 22:26	1634-04-4	
Naphthalene	573	ug/L	500	209	100		02/13/20 22:26	91-20-3	
Toluene	11100	ug/L	500	201	100		02/13/20 22:26	108-88-3	
Xylene (Total)	4460	ug/L	500	500	100		02/13/20 22:26	1330-20-7	MS,RS
m&p-Xylene	2850	ug/L	1000	411	100		02/13/20 22:26	179601-23-1	M1,R1
o-Xylene	1610	ug/L	500	204	100		02/13/20 22:26	95-47-6	M1,R1
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		100		02/13/20 22:26	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		100		02/13/20 22:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130		100		02/13/20 22:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: Dup-1		Lab ID: 92464439014		Collected: 02/05/20 11:15		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/14/20 00:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	02/12/20 07:51	02/14/20 00:10	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	23200	ug/L	12500	8200	125		02/14/20 11:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	380	125		02/14/20 11:48	994-05-8	
Benzene	15500	ug/L	625	218	125		02/14/20 11:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6740	125		02/14/20 11:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	11400	125		02/14/20 11:48	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	3010	125		02/14/20 11:48	762-75-4	
1,2-Dichloroethane	287J	ug/L	625	258	125		02/14/20 11:48	107-06-2	
Diisopropyl ether	4170	ug/L	625	436	125		02/14/20 11:48	108-20-3	
Ethanol	ND	ug/L	25000	18000	125		02/14/20 11:48	64-17-5	
Ethylbenzene	1460	ug/L	625	230	125		02/14/20 11:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	1060	125		02/14/20 11:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	625	388	125		02/14/20 11:48	1634-04-4	
Naphthalene	1220	ug/L	625	261	125		02/14/20 11:48	91-20-3	
Toluene	16100	ug/L	625	251	125		02/14/20 11:48	108-88-3	
Xylene (Total)	7740	ug/L	625	625	125		02/14/20 11:48	1330-20-7	
m&p-Xylene	5100	ug/L	1250	514	125		02/14/20 11:48	179601-23-1	
o-Xylene	2640	ug/L	625	255	125		02/14/20 11:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		125		02/14/20 11:48	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		125		02/14/20 11:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130		125		02/14/20 11:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

Sample: FB		Lab ID: 92464439015		Collected: 02/05/20 12:42		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/12/20 07:51	02/13/20 08:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	02/12/20 07:51	02/13/20 08:52	301-79-56	
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/13/20 20:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/13/20 20:09	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/13/20 20:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/13/20 20:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/13/20 20:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/13/20 20:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/13/20 20:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/13/20 20:09	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/13/20 20:09	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/13/20 20:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/13/20 20:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/13/20 20:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/13/20 20:09	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/13/20 20:09	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/13/20 20:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/13/20 20:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/13/20 20:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/13/20 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		02/13/20 20:09	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		02/13/20 20:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Sample: TB		Lab ID: 92464439016		Collected: 02/05/20 12:43		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260D							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/13/20 20:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/13/20 20:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/13/20 20:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/13/20 20:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/13/20 20:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/13/20 20:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/13/20 20:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/13/20 20:27	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/13/20 20:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/13/20 20:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/13/20 20:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/13/20 20:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/13/20 20:27	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/13/20 20:27	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/13/20 20:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		02/13/20 20:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		02/13/20 20:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/13/20 20:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/13/20 20:27	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		02/13/20 20:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

QC Batch: 524755 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Associated Lab Samples: 92464439015, 92464439016

METHOD BLANK: 2804954 Matrix: Water
Associated Lab Samples: 92464439015, 92464439016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/13/20 17:28	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/13/20 17:28	
Benzene	ug/L	ND	5.0	1.7	02/13/20 17:28	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/13/20 17:28	
Ethanol	ug/L	ND	200	144	02/13/20 17:28	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/13/20 17:28	
Ethylbenzene	ug/L	ND	5.0	1.8	02/13/20 17:28	
m&p-Xylene	ug/L	ND	10.0	4.1	02/13/20 17:28	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/13/20 17:28	
Naphthalene	ug/L	ND	5.0	2.1	02/13/20 17:28	
o-Xylene	ug/L	ND	5.0	2.0	02/13/20 17:28	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/13/20 17:28	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/13/20 17:28	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/13/20 17:28	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/13/20 17:28	
Toluene	ug/L	ND	5.0	2.0	02/13/20 17:28	
Xylene (Total)	ug/L	ND	5.0	5.0	02/13/20 17:28	
1,2-Dichloroethane-d4 (S)	%	95	70-130		02/13/20 17:28	
4-Bromofluorobenzene (S)	%	95	70-130		02/13/20 17:28	
Toluene-d8 (S)	%	106	70-130		02/13/20 17:28	

LABORATORY CONTROL SAMPLE: 2804955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	935	94	70-130	
Benzene	ug/L	50	51.5	103	70-130	
Diisopropyl ether	ug/L	50	48.5	97	70-130	
Ethanol	ug/L	2000	1920	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.1	95	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
m&p-Xylene	ug/L	100	96.9	97	70-130	
Methyl-tert-butyl ether	ug/L	50	50.0	100	70-130	
Naphthalene	ug/L	50	45.8	92	70-130	
o-Xylene	ug/L	50	48.1	96	70-130	
tert-Amyl Alcohol	ug/L	1000	898	90	70-130	
tert-Amylmethyl ether	ug/L	100	97.4	97	70-130	
tert-Butyl Alcohol	ug/L	500	451	90	70-130	
tert-Butyl Formate	ug/L	400	402	100	70-130	
Toluene	ug/L	50	50.2	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

LABORATORY CONTROL SAMPLE: 2804955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2804956 2804957

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92464431001 Result	Spike Conc.	Spike Conc.	Result						
1,2-Dichloroethane	ug/L	ND	20	20	20.6	21.8	103	109	70-137	5	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	347	404	87	101	39-157	15	30
Benzene	ug/L	ND	20	20	22.3	23.1	112	116	70-151	4	30
Diisopropyl ether	ug/L	ND	20	20	20.5	21.5	103	108	63-144	5	30
Ethanol	ug/L	ND	800	800	843	915	105	114	39-176	8	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.7	42.5	99	106	66-137	7	30
Ethylbenzene	ug/L	ND	20	20	19.5	20.8	97	104	66-153	7	30
m&p-Xylene	ug/L	ND	40	40	39.2	42.1	98	105	69-152	7	30
Methyl-tert-butyl ether	ug/L	ND	20	20	20.9	22.4	104	112	54-156	7	30
Naphthalene	ug/L	ND	20	20	16.0	18.2	80	91	61-148	13	30 v3
o-Xylene	ug/L	ND	20	20	19.2	20.6	96	103	70-148	7	30
tert-Amyl Alcohol	ug/L	ND	400	400	361	410	90	102	54-153	13	30
tert-Amylmethyl ether	ug/L	ND	40	40	39.3	42.4	98	106	69-139	7	30
tert-Butyl Alcohol	ug/L	ND	200	200	256	295	128	147	43-188	14	30
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	10	9	10-170		30 P5
Toluene	ug/L	ND	20	20	21.9	22.4	109	112	59-148	3	30
Xylene (Total)	ug/L	ND	60	60	58.3	62.6	97	104	63-158	7	30
1,2-Dichloroethane-d4 (S)	%						108	99	70-130		
4-Bromofluorobenzene (S)	%						98	98	70-130		
Toluene-d8 (S)	%						105	102	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

QC Batch: 524765 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Associated Lab Samples: 92464439002, 92464439003, 92464439004, 92464439005, 92464439006, 92464439007, 92464439008, 92464439009, 92464439010, 92464439011, 92464439012

METHOD BLANK: 2805019 Matrix: Water
Associated Lab Samples: 92464439002, 92464439003, 92464439004, 92464439005, 92464439006, 92464439007, 92464439008, 92464439009, 92464439010, 92464439011, 92464439012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/12/20 12:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/12/20 12:13	
Benzene	ug/L	ND	5.0	1.7	02/12/20 12:13	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/12/20 12:13	
Ethanol	ug/L	ND	200	144	02/12/20 12:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/12/20 12:13	
Ethylbenzene	ug/L	ND	5.0	1.8	02/12/20 12:13	
m&p-Xylene	ug/L	ND	10.0	4.1	02/12/20 12:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/12/20 12:13	
Naphthalene	ug/L	ND	5.0	2.1	02/12/20 12:13	
o-Xylene	ug/L	ND	5.0	2.0	02/12/20 12:13	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/12/20 12:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/12/20 12:13	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/12/20 12:13	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/12/20 12:13	
Toluene	ug/L	ND	5.0	2.0	02/12/20 12:13	
Xylene (Total)	ug/L	ND	5.0	5.0	02/12/20 12:13	
1,2-Dichloroethane-d4 (S)	%	107	70-130		02/12/20 12:13	
4-Bromofluorobenzene (S)	%	100	70-130		02/12/20 12:13	
Toluene-d8 (S)	%	105	70-130		02/12/20 12:13	

LABORATORY CONTROL SAMPLE: 2805020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.7	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	990	99	70-130	
Benzene	ug/L	50	54.5	109	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	1810	91	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.8	99	70-130	
Ethylbenzene	ug/L	50	47.2	94	70-130	
m&p-Xylene	ug/L	100	94.9	95	70-130	
Methyl-tert-butyl ether	ug/L	50	53.9	108	70-130	
Naphthalene	ug/L	50	44.4	89	70-130	
o-Xylene	ug/L	50	47.6	95	70-130	
tert-Amyl Alcohol	ug/L	1000	945	94	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	473	95	70-130	

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

LABORATORY CONTROL SAMPLE: 2805020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	436	109	70-130	
Toluene	ug/L	50	51.5	103	70-130	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2805021 2805022

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92464439003 Result	Spike Conc.	Spike Conc.	Result						
1,2-Dichloroethane	ug/L	ND	20	20	20.4	20.2	102	101	70-137	1	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	477	490	119	123	39-157	3	30
Benzene	ug/L	ND	20	20	22.3	22.1	112	110	70-151	1	30
Diisopropyl ether	ug/L	ND	20	20	19.9	21.8	100	109	63-144	9	30
Ethanol	ug/L	ND	800	800	1230	1270	154	159	39-176	3	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.5	40.7	94	102	66-137	8	30
Ethylbenzene	ug/L	ND	20	20	21.2	21.2	106	106	66-153	0	30
m&p-Xylene	ug/L	ND	40	40	42.2	42.7	106	107	69-152	1	30
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	21.1	100	105	54-156	6	30
Naphthalene	ug/L	ND	20	20	22.1	21.8	110	109	61-148	1	30
o-Xylene	ug/L	ND	20	20	20.8	21.1	104	105	70-148	1	30
tert-Amyl Alcohol	ug/L	ND	400	400	482	494	120	124	54-153	3	30
tert-Amylmethyl ether	ug/L	ND	40	40	41.3	41.6	103	104	69-139	1	30
tert-Butyl Alcohol	ug/L	ND	200	200	300	315	150	158	43-188	5	30
tert-Butyl Formate	ug/L	ND	160	160	45.0J	39.1J	28	24	10-170		30
Toluene	ug/L	ND	20	20	21.4	21.3	107	106	59-148	1	30
Xylene (Total)	ug/L	ND	60	60	63.0	63.8	105	106	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						102	102	70-130		
4-Bromofluorobenzene (S)	%						99	98	70-130		
Toluene-d8 (S)	%						102	100	70-130		

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

QC Batch: 525007 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Associated Lab Samples: 92464439001, 92464439013

METHOD BLANK: 2806117 Matrix: Water
Associated Lab Samples: 92464439001, 92464439013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/13/20 12:56	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/13/20 12:56	
Benzene	ug/L	ND	5.0	1.7	02/13/20 12:56	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/13/20 12:56	
Ethanol	ug/L	ND	200	144	02/13/20 12:56	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/13/20 12:56	
Ethylbenzene	ug/L	ND	5.0	1.8	02/13/20 12:56	
m&p-Xylene	ug/L	ND	10.0	4.1	02/13/20 12:56	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/13/20 12:56	
Naphthalene	ug/L	ND	5.0	2.1	02/13/20 12:56	
o-Xylene	ug/L	ND	5.0	2.0	02/13/20 12:56	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/13/20 12:56	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/13/20 12:56	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/13/20 12:56	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/13/20 12:56	
Toluene	ug/L	ND	5.0	2.0	02/13/20 12:56	
Xylene (Total)	ug/L	ND	5.0	5.0	02/13/20 12:56	
1,2-Dichloroethane-d4 (S)	%	101	70-130		02/13/20 12:56	
4-Bromofluorobenzene (S)	%	101	70-130		02/13/20 12:56	
Toluene-d8 (S)	%	106	70-130		02/13/20 12:56	

LABORATORY CONTROL SAMPLE: 2806118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.6	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1150	115	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Diisopropyl ether	ug/L	50	54.4	109	70-130	
Ethanol	ug/L	2000	2050	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	47.7	95	70-130	
m&p-Xylene	ug/L	100	95.0	95	70-130	
Methyl-tert-butyl ether	ug/L	50	55.5	111	70-130	
Naphthalene	ug/L	50	49.5	99	70-130	
o-Xylene	ug/L	50	49.0	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	545	109	70-130	
tert-Butyl Formate	ug/L	400	460	115	70-130	
Toluene	ug/L	50	50.5	101	70-130	

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

LABORATORY CONTROL SAMPLE: 2806118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2806119 2806120

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92464439013 Result	Spike Conc.	Spike Conc.	Result							Result
1,2-Dichloroethane	ug/L	ND	2000	2000	2440	2630	112	121	70-137	7	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	40000	40300	42700	101	107	39-157	6	30	
Benzene	ug/L	10300	2000	2000	13200	23100	144	639	70-151	55	30	E,M1, R1
Diisopropyl ether	ug/L	3030	2000	2000	5640	9030	131	300	63-144	46	30	M1,R1
Ethanol	ug/L	ND	80000	80000	83900	88900	105	111	39-176	6	30	
Ethyl-tert-butyl ether	ug/L	ND	4000	4000	4440	4450	111	111	66-137	0	30	
Ethylbenzene	ug/L	811	2000	2000	2770	3630	98	141	66-153	27	30	
m&p-Xylene	ug/L	2850	4000	4000	6830	9780	99	173	69-152	36	30	M1,R1
Methyl-tert-butyl ether	ug/L	ND	2000	2000	2390	2440	119	122	54-156	2	30	
Naphthalene	ug/L	573	2000	2000	2590	3020	101	123	61-148	15	30	
o-Xylene	ug/L	1610	2000	2000	3510	5280	95	184	70-148	40	30	M1,R1
tert-Amyl Alcohol	ug/L	ND	40000	40000	57800	85400	144	213	54-153	39	30	M1,R1
tert-Amylmethyl ether	ug/L	ND	4000	4000	4390	4500	110	112	69-139	3	30	
tert-Butyl Alcohol	ug/L	ND	20000	20000	22700	25900	113	129	43-188	13	30	
tert-Butyl Formate	ug/L	ND	16000	16000	18700	17800	117	111	10-170	5	30	
Toluene	ug/L	11100	2000	2000	13600	24700	128	680	59-148	58	30	E
Xylene (Total)	ug/L	4460	6000	6000	10300	15100	98	177	63-158	37	30	MS,RS
1,2-Dichloroethane-d4 (S)	%						93	97	70-130			
4-Bromofluorobenzene (S)	%						98	100	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

QC Batch: 525191 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Associated Lab Samples: 92464439014

METHOD BLANK: 2807188 Matrix: Water
Associated Lab Samples: 92464439014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/14/20 04:30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/14/20 04:30	
Benzene	ug/L	ND	5.0	1.7	02/14/20 04:30	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/14/20 04:30	
Ethanol	ug/L	ND	200	144	02/14/20 04:30	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/14/20 04:30	
Ethylbenzene	ug/L	ND	5.0	1.8	02/14/20 04:30	
m&p-Xylene	ug/L	ND	10.0	4.1	02/14/20 04:30	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/14/20 04:30	
Naphthalene	ug/L	ND	5.0	2.1	02/14/20 04:30	
o-Xylene	ug/L	ND	5.0	2.0	02/14/20 04:30	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/14/20 04:30	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/14/20 04:30	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/14/20 04:30	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/14/20 04:30	
Toluene	ug/L	ND	5.0	2.0	02/14/20 04:30	
Xylene (Total)	ug/L	ND	5.0	5.0	02/14/20 04:30	
1,2-Dichloroethane-d4 (S)	%	105	70-130		02/14/20 04:30	
4-Bromofluorobenzene (S)	%	102	70-130		02/14/20 04:30	
Toluene-d8 (S)	%	96	70-130		02/14/20 04:30	

LABORATORY CONTROL SAMPLE: 2807189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	51.9	104	70-130	
Diisopropyl ether	ug/L	50	50.2	100	70-130	
Ethanol	ug/L	2000	2270	114	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
Ethylbenzene	ug/L	50	51.4	103	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Naphthalene	ug/L	50	54.8	110	70-130	
o-Xylene	ug/L	50	51.2	102	70-130	
tert-Amyl Alcohol	ug/L	1000	995	99	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	480	96	70-130	
tert-Butyl Formate	ug/L	400	430	108	70-130	
Toluene	ug/L	50	51.1	102	70-130	

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

LABORATORY CONTROL SAMPLE: 2807189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2807190 2807191

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92464439014 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	287J	2500	2500	2870	2970	103	107	70-137	3	30
3,3-Dimethyl-1-Butanol	ug/L	ND	50000	50000	49200	50900	98	102	39-157	4	30
Benzene	ug/L	15500	2500	2500	18600	17900	125	98	70-151	4	30
Diisopropyl ether	ug/L	4170	2500	2500	6720	6980	102	112	63-144	4	30
Ethanol	ug/L	ND	100000	100000	125000	134000	125	134	39-176	7	30
Ethyl-tert-butyl ether	ug/L	ND	5000	5000	4810	5150	96	103	66-137	7	30
Ethylbenzene	ug/L	1460	2500	2500	4170	4140	109	107	66-153	1	30
m&p-Xylene	ug/L	5100	5000	5000	10200	10200	103	103	69-152	0	30
Methyl-tert-butyl ether	ug/L	ND	2500	2500	2480	2580	99	103	54-156	4	30
Naphthalene	ug/L	1220	2500	2500	3670	3660	98	98	61-148	0	30
o-Xylene	ug/L	2640	2500	2500	5360	5260	109	105	70-148	2	30
tert-Amyl Alcohol	ug/L	23200	50000	50000	72700	73900	99	101	54-153	2	30
tert-Amylmethyl ether	ug/L	ND	5000	5000	5130	4940	103	99	69-139	4	30
tert-Butyl Alcohol	ug/L	ND	25000	25000	23700	25300	95	101	43-188	6	30
tert-Butyl Formate	ug/L	ND	20000	20000	21600	22000	108	110	10-170	2	30
Toluene	ug/L	16100	2500	2500	19600	19100	141	120	59-148	3	30
Xylene (Total)	ug/L	7740	7500	7500	15600	15500	105	103	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						103	105	70-130		
4-Bromofluorobenzene (S)	%						97	96	70-130		
Toluene-d8 (S)	%						101	101	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

QC Batch: 524614 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92464439001, 92464439002

METHOD BLANK: 2804316 Matrix: Water
Associated Lab Samples: 92464439001, 92464439002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	02/12/20 23:58	
1-Chloro-2-bromopropane (S)	%	148	60-140		02/12/20 23:58	S3

LABORATORY CONTROL SAMPLE & LCSD: 2804317 2804318

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	0.27	119	112	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				117	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2804320 2804321

Parameter	Units	92464410021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.28	114	110	60-140	3	20	
1-Chloro-2-bromopropane (S)	%						111	108	60-140			

SAMPLE DUPLICATE: 2804319

Parameter	Units	92464410020 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	119	106			

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

QC Batch: 524615 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92464439003, 92464439004, 92464439005, 92464439006, 92464439007, 92464439008, 92464439009, 92464439010, 92464439011, 92464439012, 92464439013, 92464439014, 92464439015

METHOD BLANK: 2804322 Matrix: Water
Associated Lab Samples: 92464439003, 92464439004, 92464439005, 92464439006, 92464439007, 92464439008, 92464439009, 92464439010, 92464439011, 92464439012, 92464439013, 92464439014, 92464439015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	02/13/20 05:19	
1-Chloro-2-bromopropane (S)	%	108	60-140		02/13/20 05:19	

LABORATORY CONTROL SAMPLE & LCSD: 2804323 2804324

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.29	0.28	118	114	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				114	110	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2804326 2804327

Parameter	Units	92464439004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.30	0.36	120	142	60-140	17	20	M1
1-Chloro-2-bromopropane (S)	%						114	135	60-140			

SAMPLE DUPLICATE: 2804325

Parameter	Units	92464439003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	112	102			

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QUALIFIERS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464439

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464439

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92464439001	MW-4R	EPA 8011	524614	EPA 8011	524782
92464439002	MW-5RR	EPA 8011	524614	EPA 8011	524782
92464439003	MW-9	EPA 8011	524615	EPA 8011	524783
92464439004	MW-14	EPA 8011	524615	EPA 8011	524783
92464439005	MW-15	EPA 8011	524615	EPA 8011	524783
92464439006	MW-16	EPA 8011	524615	EPA 8011	524783
92464439007	MW-17	EPA 8011	524615	EPA 8011	524783
92464439008	MW-18	EPA 8011	524615	EPA 8011	524783
92464439009	MW-19	EPA 8011	524615	EPA 8011	524783
92464439010	MW-20	EPA 8011	524615	EPA 8011	524783
92464439011	PW-1R	EPA 8011	524615	EPA 8011	524783
92464439012	RW-2	EPA 8011	524615	EPA 8011	524783
92464439013	RW-4	EPA 8011	524615	EPA 8011	524783
92464439014	Dup-1	EPA 8011	524615	EPA 8011	524783
92464439015	FB	EPA 8011	524615	EPA 8011	524783
92464439001	MW-4R	EPA 8260D	525007		
92464439002	MW-5RR	EPA 8260D	524765		
92464439003	MW-9	EPA 8260D	524765		
92464439004	MW-14	EPA 8260D	524765		
92464439005	MW-15	EPA 8260D	524765		
92464439006	MW-16	EPA 8260D	524765		
92464439007	MW-17	EPA 8260D	524765		
92464439008	MW-18	EPA 8260D	524765		
92464439009	MW-19	EPA 8260D	524765		
92464439010	MW-20	EPA 8260D	524765		
92464439011	PW-1R	EPA 8260D	524765		
92464439012	RW-2	EPA 8260D	524765		
92464439013	RW-4	EPA 8260D	525007		
92464439014	Dup-1	EPA 8260D	525191		
92464439015	FB	EPA 8260D	524755		
92464439016	TB	EPA 8260D	524755		

REPORT OF LABORATORY ANALYSIS

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Company: **Meci** Billing Information: **Complete all relevant fields**

Address: **231 Dicks Rd Lexington SC 29072** Report To: **B Shane** Email To: **Shane@Meci.net**

Site Collection Info/Address: **615 Jefferson Hwy** State: **SC** County/City: **Lexington** Time Zone Collected: **ET**

Customer Project Name/Number: **Shreine Shani** State: **SC** County/City: **Lexington** Time Zone Collected: **ET**

Phone: **10628 / 6041-CA#** Compliance Monitoring? Yes No

Collected By (print): **Ben Powers** Purchase Order #: **10628** DW PWS ID #: **10628**

Collected By (signature): **[Signature]** Turnaround Date Required: **Quote #:** DW Location Code: **10628**

Sample Disposal: Return Next Day 14 Day 15 Day Other

Product (P), Soil/Solid (SL), Oil (OI), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Cns
Mu 3R			6/12/21	11:21				6
Mu 4R			6/12/21	11:50				6
Mu 5RK			6/12/21	11:50				6
Mu 7RK			6/12/21	11:39				6
Mu 9			6/12/21	11:39				6
Mu 10			6/12/21	11:39				6
Mu 11			6/12/21	11:07				6
Mu 14			6/12/21	11:22				6
Mu 15			6/12/21	11:22				6
Mu 16			6/12/21	9:48				6

Lab Profile/Line:	Lab Sample Receipt Checklist:	Lab Sample # / Comments:
Custody Seals Present/Intact: <input type="checkbox"/> Y <input type="checkbox"/> N Custody Signatures Present: <input type="checkbox"/> Y <input type="checkbox"/> N Collector Signature Present: <input type="checkbox"/> Y <input type="checkbox"/> N Bottles Intact: <input type="checkbox"/> Y <input type="checkbox"/> N Correct Bottles: <input type="checkbox"/> Y <input type="checkbox"/> N Sufficient Volume: <input type="checkbox"/> Y <input type="checkbox"/> N Samples Received on Ice: <input type="checkbox"/> Y <input type="checkbox"/> N VOA - Headspace Acceptable: <input type="checkbox"/> Y <input type="checkbox"/> N USDA Regulated Soils: <input type="checkbox"/> Y <input type="checkbox"/> N Samples in Holding Time: <input type="checkbox"/> Y <input type="checkbox"/> N Residual Chlorine Present: <input type="checkbox"/> Y <input type="checkbox"/> N CI Strips: <input type="checkbox"/> Y <input type="checkbox"/> N Sample pH Acceptable: <input type="checkbox"/> Y <input type="checkbox"/> N Sulfide Present: <input type="checkbox"/> Y <input type="checkbox"/> N Lead Acetate Strips: <input type="checkbox"/> Y <input type="checkbox"/> N	Lab Sample #: 92464439 Comments: Blender Oxygen 1.2 KAETH # 8260 B EDB by 8011	Lab Sample #: 92464439 Comments: Blender Oxygen 1.2 KAETH # 8260 B EDB by 8011

ALL SHADED ARE



MO# : 92464439

Page Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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Company: **Meci** Billing Information: **SC 15500/Headquarters**

Address: **231 Dealey Rd Lexington SC 29072** Report To: **B. Blume**

Customer Project Name/Number: **DRUGS/STU** State: **SC** County/City: **Lexington** Time Zone Collected: **ET**

Phone: **803 781 5151** Email: **blume@meclab.com**

Collected By (Print): **Ben Paves** Purchase Order #: **10228 / 60941**

Collected By (Signature): *Ben Paves* Quote #: **60941** DW PWS ID #: **60941**

Sample Disposal: **Turnaround Date Required:** Same Day Next Day 2 Day 3 Day 4 Day 5 Day

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cms
			Date	Time	Date	Time		
Mu 17	Gas	6	06/20	10:57				6
Mu 18				10:50				X
Mu 19				9:57				X
Mu 20				9:55				X
Pu-1K				12:09				X
Ru-1								X
Ru 2				06/20 12:39				X
Ru 3								X
Ru 4				06/20 11:15				X
Ru 5								X

Customer Remarks / Special Conditions / Possible Hazards: **Bubble Bags**

Relinquished by/Company: (Signature) **Ben Paves** Date/Time: **6/17/10**

Relinquished by/Company: (Signature) **Ben Paves** Date/Time: **6/17/10**

LAB USE ONLY - Affix **W0# : 92464439** PM: **AMB** Due Date: **02/14/20**

Container Preservative: **ALL SF** CLIENT: **92-MIDLAND**

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analysis	Lab Profile/Line:	Lab Sample # / Comments:
ED3 8011	Custody Seals Present/Intact <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Custody Signatures Present <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Collector Signatures Present <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Bottles Intact <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Correct Bottles <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Sufficient Volume <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Samples Received on Ice <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA VOA - Headspace Acceptable <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Samples in Holding Time <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Residual Chlorine Present <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Cl Strips: <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Sample pH Acceptable <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA pH Strips: <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Solids Present <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Lead Acetate Strips: <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	Ben Paves

Lab Tracking #: **2416126**

Lab Sample Temperature Info: **Temp Blank Received: Y N NA**

Therm ID#: **008**

Cooler 1 Temp Upon Receipt: **009**

Cooler 1 Therm Corr. Factor: **010**

Cooler 1 Corrected Temp: **011**

Comments: **odor 012**

Comments: **odor 013**

Pace Analytical CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY - Affix Workor

W0# : 92464439
 PH: AMB Due Date: 02/14/20
 CLIENT: 92-MIDLAND

Company: **MeCi** Billing Information:
 Address: **231 Dooler Rd Lexington SC 29072**
 Report To: **B Shana** Email To: **STC@MeCi.net**

Customer Project Name/Number: **Sheep/Sheep** State: **SC** County/City: **Tropar/Hoodville** Time Zone Collected:
 Phone: **803 781 6094** Site/Facility ID #: **10628 / 60941** Compliance Monitoring? Yes No
 Email: **STC@MeCi.net** DW PWS ID #: **PT 1 MT 1 CT 1 ET**

Collected By (print): **Ben Powers** Purchase Order #: **10628 / 60941** DW Location Code:
 Collected By (Signature): **[Signature]** Turnaround Date Required: **As Yes [] No []** Field Filtered (if applicable): Yes No
 Sample Disposal: Dispose as appropriate Return Archive: 1-7 Day 1-14 Day 1-30 Day Analysis: **BIOGAS + Oxygen H2 PCR ETH #2600**

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WIP), Air (AIR), Tissue (TS), Biossavy (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp /		Res	# of	Lab Tracking #:	Lab Sample # / Comments:
		Grab	Collected for Composite Start Date				
2406							
Du01	Gas	6	08/06/11:15		6		
FB	↓	6	12:42		6		Obac 3100
TB	↓	2	12:43		2		FB 015
							TB 010

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: **Wet Blue DRY None**
 Packing Material Used:
 Radchem sample(s) screened (<500 gpm): **Y N NA**
 SHORT HOLDS PRESENT (<72 hours): **Y N N/A**
 Lab Tracking #: **2416128**

Received by/Company: **[Signature] PACE** Date/Time: **2/17/10 15:50**
 Received by/Company: **[Signature] PACE** Date/Time: **2-17-10 18:00**
 Relinquished by/Company: **[Signature]** Date/Time:
 Relinquished by/Company: **[Signature]** Date/Time:

Temp Sample Temperature Info:
 Temp Blank Received: **Y N NA**
 Therm ID#: **OC**
 Cooler 1 Temp Upon Receipt: **OC**
 Cooler 1 Therm Corr. Factor: **OC**
 Cooler 1 Corrected Temp: **OC**
 Trip Blank Received: **Y N NA**
 HCL MeOH TSP Other
 Non Conformance(s): **Page: of:**

Container Preservative Type: **3 M**
 ALL SHADEL
 Lab Project Manager:
 Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact **Y N NA**
 Custody Signatures Present **Y N NA**
 Collector Signatures Present **Y N NA**
 Bottles Intact **Y N NA**
 Correct Bottles **Y N NA**
 Sufficient Volume **Y N NA**
 Sample Received on Ice **Y N NA**
 vov - headspace acceptable **Y N NA**
 USDA Regulated Soils **Y N NA**
 Samples in Holding Time **Y N NA**
 Residual Chlorine Present **Y N NA**
 Cl Strips: **Y N NA**
 Sample pH Acceptable **Y N NA**
 pH Strips: **Y N NA**
 Sniffide Present **Y N NA**
 Lead Accurate Strips: **Y N NA**
 Lab USE ONLY:
 Lab Sample # / Comments:

February 18, 2020

Mr. Bryan Shane
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental
Mr. Kyle Pudney, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92464438001	WSW-1	Water	02/05/20 13:00	02/07/20 15:50
92464438002	DUP 1 WSW	Water	02/05/20 13:01	02/07/20 15:50
92464438003	FB	Water	02/05/20 13:05	02/07/20 15:50
92464438004	TB	Water	02/05/20 13:06	02/07/20 15:50

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SAMPLE ANALYTE COUNT

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92464438001	WSW-1	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92464438002	DUP 1 WSW	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92464438003	FB	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92464438004	TB	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
		EPA 524.2	GAW	10	PASI-C

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464438

Sample: WSW-1		Lab ID: 92464438001		Collected: 02/05/20 13:00		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/14/20 07:53	02/14/20 16:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	02/14/20 07:53	02/14/20 16:58	301-79-56	
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		02/14/20 03:41	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/14/20 03:41	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/14/20 03:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/14/20 03:41	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/14/20 03:41	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/14/20 03:41	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/14/20 03:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/14/20 03:41	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		02/14/20 03:41	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		02/14/20 03:41	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/15/20 10:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/15/20 10:06	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/15/20 10:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/15/20 10:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/15/20 10:06	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/15/20 10:06	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/15/20 10:06	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/15/20 10:06	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/15/20 10:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/15/20 10:06	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		02/15/20 10:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464438

Sample: DUP 1 WSW Lab ID: 92464438002 Collected: 02/05/20 13:01 Received: 02/07/20 15:50 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/14/20 07:53	02/14/20 17:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	70-130		1	02/14/20 07:53	02/14/20 17:10	301-79-56	
524.2 MSV SC List Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		02/14/20 04:07	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/14/20 04:07	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/14/20 04:07	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/14/20 04:07	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/14/20 04:07	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/14/20 04:07	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/14/20 04:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/14/20 04:07	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		02/14/20 04:07	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		02/14/20 04:07	460-00-4	
8260 MSV Low Level SC Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/15/20 10:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/15/20 10:24	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/15/20 10:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/15/20 10:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/15/20 10:24	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/15/20 10:24	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/15/20 10:24	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/15/20 10:24	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/15/20 10:24	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/15/20 10:24	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/15/20 10:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464438

Sample: FB		Lab ID: 92464438003		Collected: 02/05/20 13:05		Received: 02/07/20 15:50		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
504 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/14/20 07:53	02/14/20 17:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	02/14/20 07:53	02/14/20 17:22	301-79-56	
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		02/13/20 20:40	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/13/20 20:40	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/13/20 20:40	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/13/20 20:40	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/13/20 20:40	91-20-3	
Toluene	0.39J	ug/L	0.50	0.24	1		02/13/20 20:40	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/13/20 20:40	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/13/20 20:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		02/13/20 20:40	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/13/20 20:40	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/15/20 04:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/15/20 04:01	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/15/20 04:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/15/20 04:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/15/20 04:01	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/15/20 04:01	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/15/20 04:01	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/15/20 04:01	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		02/15/20 04:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/15/20 04:01	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/15/20 04:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Sample: TB Lab ID: 92464438004 Collected: 02/05/20 13:06 Received: 02/07/20 15:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		02/13/20 21:06	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/13/20 21:06	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/13/20 21:06	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/13/20 21:06	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/13/20 21:06	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/13/20 21:06	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/13/20 21:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/13/20 21:06	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		02/13/20 21:06	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/13/20 21:06	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/15/20 04:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/15/20 04:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/15/20 04:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/15/20 04:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/15/20 04:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/15/20 04:19	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/15/20 04:19	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/15/20 04:19	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		02/15/20 04:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/15/20 04:19	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		02/15/20 04:19	2037-26-5	

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

QC Batch: 525087 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92464438001, 92464438002, 92464438003, 92464438004

METHOD BLANK: 2806783 Matrix: Water
Associated Lab Samples: 92464438001, 92464438002, 92464438003, 92464438004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	02/13/20 19:21	
Benzene	ug/L	ND	0.50	0.25	02/13/20 19:21	
Ethylbenzene	ug/L	ND	0.50	0.26	02/13/20 19:21	
m&p-Xylene	ug/L	ND	1.0	0.46	02/13/20 19:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	02/13/20 19:21	
Naphthalene	ug/L	ND	0.50	0.31	02/13/20 19:21	
o-Xylene	ug/L	ND	0.50	0.25	02/13/20 19:21	
Toluene	ug/L	ND	0.50	0.24	02/13/20 19:21	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130		02/13/20 19:21	
4-Bromofluorobenzene (S)	%	99	70-130		02/13/20 19:21	

LABORATORY CONTROL SAMPLE: 2806784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.7	93	70-130	
Benzene	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	19.9	99	70-130	
m&p-Xylene	ug/L	40	39.0	98	70-130	
Methyl-tert-butyl ether	ug/L	20	18.0	90	70-130	
Naphthalene	ug/L	20	19.9	99	70-130	
o-Xylene	ug/L	20	18.6	93	70-130	
Toluene	ug/L	20	18.8	94	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

QC Batch: 525256 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92464438003, 92464438004

METHOD BLANK: 2807534 Matrix: Water
Associated Lab Samples: 92464438003, 92464438004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	02/15/20 01:35	
Diisopropyl ether	ug/L	ND	1.0	0.22	02/15/20 01:35	
Ethanol	ug/L	ND	200	98.8	02/15/20 01:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	02/15/20 01:35	
tert-Amyl Alcohol	ug/L	ND	100	53.9	02/15/20 01:35	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	02/15/20 01:35	
tert-Butyl Alcohol	ug/L	ND	100	27.3	02/15/20 01:35	
tert-Butyl Formate	ug/L	ND	50.0	24.7	02/15/20 01:35	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/15/20 01:35	
4-Bromofluorobenzene (S)	%	103	70-130		02/15/20 01:35	
Toluene-d8 (S)	%	105	70-130		02/15/20 01:35	

LABORATORY CONTROL SAMPLE: 2807535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1070	107	70-130	
Diisopropyl ether	ug/L	50	53.7	107	70-130	
Ethanol	ug/L	2000	2020	101	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.7	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1000	100	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	468	94	70-130	
tert-Butyl Formate	ug/L	400	491	123	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2807536 2807537

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92464425004 Result	Spike Conc.	Spike Conc.	MS Result						
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	462	493	115	123	39-157	7	30
Diisopropyl ether	ug/L	ND	20	20	22.1	22.5	111	112	63-144	2	30
Ethanol	ug/L	ND	800	800	947	1010	118	127	39-176	7	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.9	41.6	102	104	66-137	2	30
tert-Amyl Alcohol	ug/L	ND	400	400	428	454	107	114	54-153	6	30
tert-Amylmethyl ether	ug/L	ND	40	40	42.2	42.2	105	105	69-139	0	30
tert-Butyl Alcohol	ug/L	ND	200	200	283	314	142	157	43-188	10	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2807536		2807537		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92464425004 Result	MS Spike Conc.	MSD Spike Conc.								
tert-Butyl Formate	ug/L	ND	160	160	54.0	43.1J	34	27	10-170		30 v3	
1,2-Dichloroethane-d4 (S)	%							107	109	70-130		
4-Bromofluorobenzene (S)	%							100	103	70-130		
Toluene-d8 (S)	%							101	101	70-130		

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

QC Batch: 525258 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92464438001, 92464438002

METHOD BLANK: 2807538 Matrix: Water
Associated Lab Samples: 92464438001, 92464438002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	02/15/20 01:53	
Diisopropyl ether	ug/L	ND	1.0	0.22	02/15/20 01:53	
Ethanol	ug/L	ND	200	98.8	02/15/20 01:53	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	02/15/20 01:53	
tert-Amyl Alcohol	ug/L	ND	100	53.9	02/15/20 01:53	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	02/15/20 01:53	
tert-Butyl Alcohol	ug/L	ND	100	27.3	02/15/20 01:53	
tert-Butyl Formate	ug/L	ND	50.0	24.7	02/15/20 01:53	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/15/20 01:53	
4-Bromofluorobenzene (S)	%	103	70-130		02/15/20 01:53	
Toluene-d8 (S)	%	104	70-130		02/15/20 01:53	

LABORATORY CONTROL SAMPLE: 2807539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1140	114	70-130	
Diisopropyl ether	ug/L	50	53.9	108	70-130	
Ethanol	ug/L	2000	2170	108	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1050	105	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	492	98	70-130	
tert-Butyl Formate	ug/L	400	489	122	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2807540 2807541

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2628926052 Result	Spike Conc.	Spike Conc.	MS Result							
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	476	459	119	115	39-157	4	30	
Diisopropyl ether	ug/L	ND	20	20	21.6	20.7	108	104	63-144	4	30	
Ethanol	ug/L	ND	800	800	958	935	120	117	39-176	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.3	38.3	101	96	66-137	5	30	
tert-Amyl Alcohol	ug/L	ND	400	400	441	436	110	109	54-153	1	30	
tert-Amylmethyl ether	ug/L	ND	40	40	41.4	39.7	104	99	69-139	4	30	
tert-Butyl Alcohol	ug/L	ND	200	200	269	273	134	136	43-188	1	30	

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941

Pace Project No.: 92464438

Parameter	Units	2807540		2807541		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2628926052 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
tert-Butyl Formate	ug/L	ND	160	160	132	111		82	69	10-170	17	30	v3
1,2-Dichloroethane-d4 (S)	%							109	110	70-130			
4-Bromofluorobenzene (S)	%							103	102	70-130			
Toluene-d8 (S)	%							100	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

QC Batch: 525172 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92464438001, 92464438002, 92464438003

METHOD BLANK: 2807129 Matrix: Water
Associated Lab Samples: 92464438001, 92464438002, 92464438003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	02/14/20 13:48	
1-Chloro-2-bromopropane (S)	%	108	70-130		02/14/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: 2807130 2807131

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.26	104	106	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				105	107	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2807133 2807134

Parameter	Units	92464400002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.24	0.25	98	103	65-135	5	20	
1-Chloro-2-bromopropane (S)	%						98	104	70-130			

SAMPLE DUPLICATE: 2807132

Parameter	Units	92464400001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	109	123			

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QUALIFIERS

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shreejakshani, LLC10628/60941
Pace Project No.: 92464438

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92464438001	WSW-1	EPA 504.1	525172	EPA 504.1	525255
92464438002	DUP 1 WSW	EPA 504.1	525172	EPA 504.1	525255
92464438003	FB	EPA 504.1	525172	EPA 504.1	525255
92464438001	WSW-1	EPA 524.2	525087		
92464438002	DUP 1 WSW	EPA 524.2	525087		
92464438003	FB	EPA 524.2	525087		
92464438004	TB	EPA 524.2	525087		
92464438001	WSW-1	EPA 8260D	525258		
92464438002	DUP 1 WSW	EPA 8260D	525258		
92464438003	FB	EPA 8260D	525256		
92464438004	TB	EPA 8260D	525256		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Workorder #

W0#: 92464438



ALL SHADED AREAS are for LAB USE ONLY

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: MECI
 Address: 231 Pooler Rd Lexington SC 29073
 Report To: B Shung
 Copy To: MECI

Equal To: MECI

Site Collection Info/Address: 445 S Oates Hwy

State: SC Country/City: Lexington Time Zone Collected: EST

Customer Project Name/Number: Shreejit Shri

Phone: 10628 / 60941

Site/Facility ID #: 10628 / 60941

Collected By (print): Ben Powers

Collected By (signature): [Signature]

Turnaround Date Required: 12 Day

Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day

Sample Disposal: Return Dispose as appropriate Archive Hold

Field Filtered (if applicable): Yes No

Immediately Packed on Ice: Yes No

Analysis: Blk, NM 102 DCA #524.2

Only generates 06013

FRB 504.1

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cms
			Date	Time	Date	Time		
<u>WSW1</u>	<u>GM</u>	<u>G</u>	<u>07/16/10</u>	<u>13:00</u>				<u>89</u>
<u>DUP1 WSW</u>	<u>J</u>	<u>J</u>	<u>13:01</u>	<u>13:05</u>				<u>9</u>
<u>FB</u>	<u>J</u>	<u>J</u>	<u>13:05</u>	<u>13:05</u>				<u>9</u>
<u>FB</u>	<u>J</u>	<u>J</u>	<u>13:06</u>	<u>13:06</u>				<u>6</u>

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Bubble Bags

Radchem sample(s) screened (<500 cpm): Y NA

Received by Company: [Signature]

Date/Time: 7/16/10

Relinquished by Company: [Signature]

Date/Time: 7/17/10

Container Preservative Type **

LAB USE ONLY

Lab Project Manager:

Analyses:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N

Customer Signatures Present Y N

Collector Signatures Present Y N

Bottles Intact Y N

Correct Bottles Y N

Sufficient Volume Y N

Samples Received on Ice Y N

VOA - Headspace Acceptable Y N

USDA Regulated Solids Y N

Samples in Holding Time Y N

Residual Chlorine Present Y N

CI Strips: Y N

Sample pH Acceptable Y N

pH Strips: Y N

Sulfide Present Y N

Lead Acetate Strips: Y N

LAB USE ONLY: Lab Sample # / Comments: 92964438

Lab Tracking #: 2416127

SHORT HOLDS PRESENT (<72 hours): Y NA

Samples received via: FEDEX UPS Client Courier Face Courier

Date/Time: 7-17-10 1530

Date/Time: 7-17-10 1800

Temp Blank Received: Y NA

Therm ID#: 421058

Cooler 1 Therm Upon Receipt: 3.8 OC

Cooler 1 Therm Corr. Factor: 0 OC

Cooler 1 Corrected Temp: 3.8 OC

Comments:

Temp Blank Received: Y NA

Therm ID#: 421058

Cooler 1 Therm Upon Receipt: 3.8 OC

Cooler 1 Therm Corr. Factor: 0 OC

Cooler 1 Corrected Temp: 3.8 OC

Comments:

Temp Blank Received: Y NA

Therm ID#: 421058

Cooler 1 Therm Upon Receipt: 3.8 OC

Cooler 1 Therm Corr. Factor: 0 OC

Cooler 1 Corrected Temp: 3.8 OC

Comments:

Temp Blank Received: Y NA

Therm ID#: 421058

Cooler 1 Therm Upon Receipt: 3.8 OC

Cooler 1 Therm Corr. Factor: 0 OC

Cooler 1 Corrected Temp: 3.8 OC

Comments:

Temp Blank Received: Y NA

Therm ID#: 421058

Cooler 1 Therm Upon Receipt: 3.8 OC

Cooler 1 Therm Corr. Factor: 0 OC

APPENDIX C:

TAX MAP

(Not Applicable)

**APPENDIX D:
SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS**

(Not Applicable)

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS
(Not Applicable)

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
(Not Applicable)

**APPENDIX G:
DISPOSAL MANIFEST**



February 20, 2020

Re: Treatment of Purge Water
Shreejakshani / Pantry 911
Hardeeville, South Carolina
SCDHEC Site ID Number 10628
MECI Project Number 19-7148

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

February 20, 2020

A total of 122.0 gallons were treated on February 5th 2020 during the sampling event at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Jordan W. Floyd
Staff Hydrogeologist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:
FATE AND TRANSPORT MODELING
(Not Applicable)

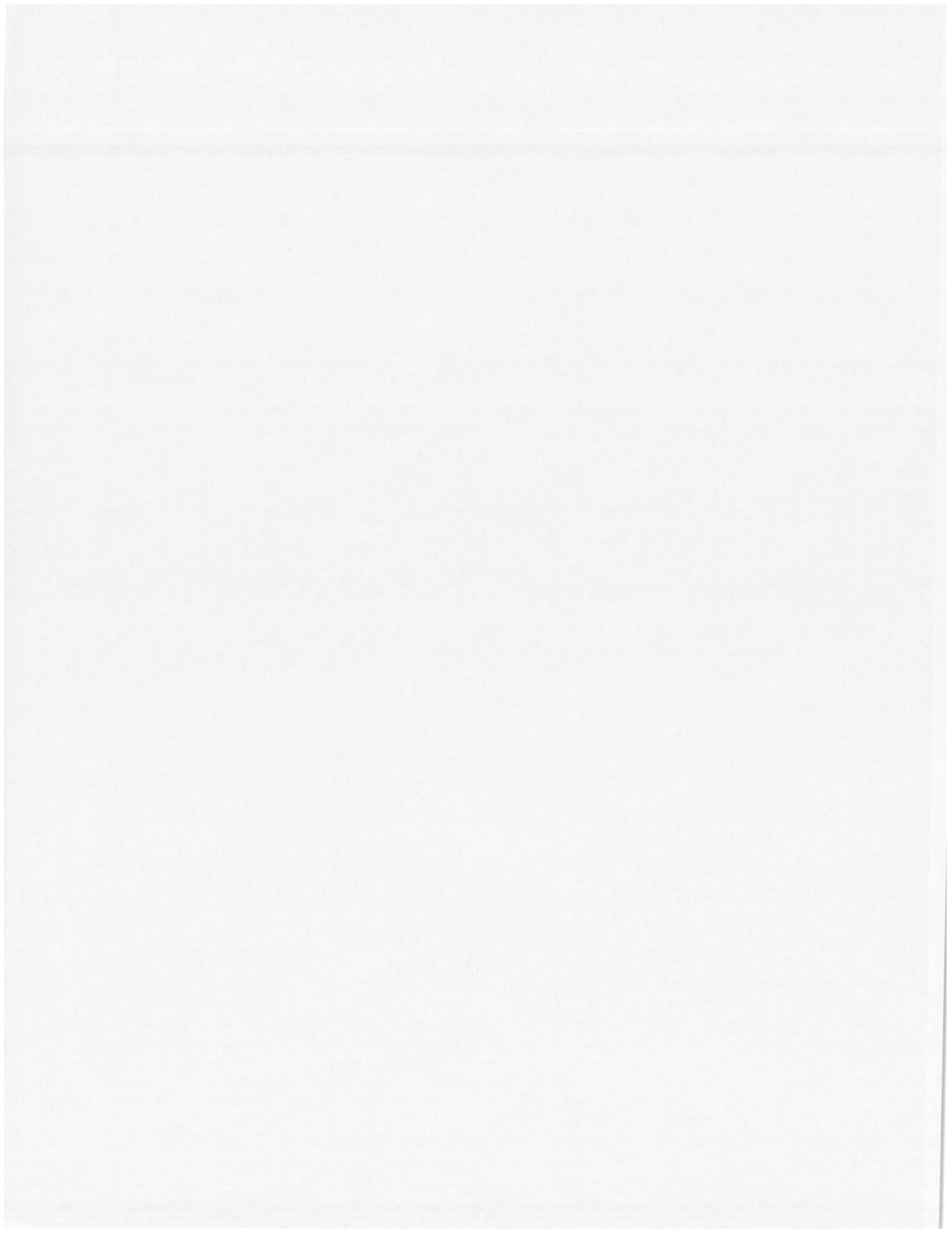
APPENDIX J:
ACCESS AGREEMENTS
(Not Applicable)

**APPENDIX K:
DATA VERIFICATION CHECKLIST**

Contractor Checklist

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

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





Healthy People. Healthy Communities.

APR 23 2020



MR DONNIE MALPHRUS
MALPHRUS ENTERPRISES
2788 NORTH OKATIE HIGHWAY
RIDGELAND SC 29936

Re: **Aggressive Fluid and Vapor Recovery Notice to Proceed**
Shreejakshani LLC DBA Okatie Mart, 6195 South Okatie Highway, Hardeeville, SC
UST Permit #10628; CA #61447
Release reported April 28, 1995
Monitoring Report received March 12, 2020
Jasper County

Dear Mr. Malphrus:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, two Aggressive Fluid and Vapor Recovery (AFVR) events may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). two 96-hour events should be performed. The first event should utilize monitoring wells RW-3, RW-6, and MW-3R and the second event should utilize RW-1, RW-5, and MW-7RR. The stingers shall be lowered at six-inch intervals starting at the water table interface to a target depth of 15 feet in the wells. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter, the stinger(s) should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the UST Division's QAPP is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below.

The AFVR Report should be submitted within 90 days from the date of this correspondence. 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.

Your contractor can 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. 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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC 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, DHEC 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.

DHEC 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 CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, 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 RBSLs.

On all correspondence concerning this site, please reference UST Permit #10628. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0606, by fax at (803) 898-0673, or by e-mail at griffiza@dhec.sc.gov.

Sincerely,



Zachary Griffith, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Midlands Environmental Consultants Inc., PO Box 854, Lexington, SC 39071 (w/enc)
Technical file (w/enc)

Approved Cost Agreement 61447

Facility: 10628 SHREEJAKSHANI LLC DBA OKATIE MART

GRIFFZA

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0 1200	\$48,335 890	5,800.31
W AFVR		14 AFVR SITE RECONNAISSANCE	1 0000	\$216.870	216.87
		16 AFVR EFFLUENT DISPOSAL	40,000.0000	\$0.470	18,800 00
		17 AFVR MOB - DEMOB	2 0000	\$417.730	835 46
		4 96 HOUR EVENT	2 0000	\$13,409.520	26,819.04
		8 OFF GAS TREATMENT 96 HOUR	2 0000	\$832.260	1,664.52
Total Amount					54,136.20



**Midlands
Environmental
Consultants, Inc.**

June 26, 2020

Mr. Zachary Griffith, Hydrogeologist
Corrective Action & Field Support 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: Aggressive Fluid Vapor Recovery Report
Shreejakshani (Former Pantry 911)
6195 Okatie Highway
Hardeeville, South Carolina
SCDHEC Site ID # 10628; CA # 10628
MECI Project Number 20-7280
Certified Site Rehabilitation Contractor UCC-0009



RECEIVED

JUL 14 2020

SC Department of
Health & Environmental Control



Dear Mr. Griffith,

On behalf of Mr. Donnie Malphrus of Malphrus Industries, Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines set forth in the UST Quality Assurance Program Plan (QAPP).

FIRST AGGRESSIVE FLUID VAPOR RECOVERY EVENT

A site visit was conducted at Shreejakshani (Former Pantry 911) on May 7, 2020 to locate/gauge monitoring wells and to evaluate current site conditions. MECI personnel commenced the first 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at Shreejakshani (Former Pantry 911) on June 1, 2020 and completed the event on June 5, 2020. The event was conducted on monitoring/recovery wells MW-3R, RW-3, and RW-6 to remove free phase petroleum product at the referenced site. Prior to the AFVR event, free phase petroleum product/water levels were gauged utilizing an Heron H.Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

<i>First 96-Hour Pre-AFVR Well Data</i>				
<i>Date</i>	<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
6/1/2020	MW-3R	2.20	4.50	2.30
6/1/2020	RW-3	1.70	3.65	1.95
6/1/2020	RW-6	1.12	10.95	9.83

The event was continuously conducted for ninety-six hours (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded.

The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event:

<i>First 96-Hour Post-AFVR Well Data</i>				
<i>Date</i>	<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
6/5/2020	MW-3R	Not Detected	8.80	Not Detected
6/5/2020	RW-3	Not Detected	11.35	Not Detected
6/5/2020	RW-6	Not Detected	8.10	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 97.02% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 411.18 pounds or approximately 71.03 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 4.28 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 2,134 parts per million by volume (PPM) to 4,523 PPM. Vacuum readings were recorded at a range of 18.0 to 28.5 inches of mercury during the event. A complete compilation of measurements recorded is presented in the attached Table 1A.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on the attached Figure 2.

SECOND AGGRESSIVE FLUID VAPOR RECOVERY EVENT

MECI personnel commenced the second 96-Hour Aggressive Fluid Vapor Recovery (AFVR) event at Shreejakshani (Former Pantry 911) on June 8, 2020 and completed the event on June 12, 2020. The event was conducted on monitoring/recovery wells MW-7RR, RW-1, and RW-5 to remove free phase petroleum product at the referenced site. Prior to the AFVR event, free phase petroleum product/water levels were gauged utilizing an Heron H Oil Oil/Water Interface Meter. The following table presents depth to product, depth to water, and product thickness measurements obtained prior to the commencement of the 96-Hour:

<i>Second 96-Hour Pre-AFVR Well Data</i>				
<i>Date</i>	<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
6/8/2020	MW-7RR	5.82	6.31	0.49
6/8/2020	RW-1	6.33	6.60	0.27
6/8/2020	RW-5	6.36	6.52	0.16

The event was continuously conducted for ninety-six hours (96) hours by MECI personnel utilizing a vacuum extraction unit. Following the extended AFVR event, free product and groundwater levels were measured and recorded. The following table presents the post-AFVR free product and groundwater measurements obtained after completion of the AFVR event.

<i>Second 96-Hour Post-AFVR Well Data</i>				
<i>Date</i>	<i>Well ID#</i>	<i>Depth to Product (ft.)</i>	<i>Depth to Water (ft.)</i>	<i>Product Thickness (ft.)</i>
6/12/2020	MW-7RR	Not Detected	11.13	Not Detected
6/12/2020	RW-1	Not Detected	11.19	Not Detected
6/12/2020	RW-5	Not Detected	13.26	Not Detected

MECI treated the off gas produced during the AFVR event using an activated carbon filter system, which achieved an average calculated reduction rate of 95.25% throughout the duration of the referenced event. Calculated total petroleum hydrocarbons removed during the event were 118.28 pounds or approximately 20.43 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.23 pounds per hour. Concentrations of off gas (Pre-Treatment) produced during the event were recorded from 504.2 parts per million by volume (PPM) to 1,341 PPM. Vacuum readings were recorded at a range of 23.0 to 26.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in the attached Table 1B.

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on the attached Figure 2.

DISPOSAL

A total of 10,023 gallons of liquid was removed from the site during the first 96-hour event. A total of 3,052 gallons of liquid were removed during the second 96-Hour event. A total of 13,075 gallons of liquid were removed during both events. Free Phase Petroleum product was not observed in the holding tanks at the end of the event. The fluids produced were transported to Regulatory Solutions, Inc. in Gaston, South Carolina for disposal. A disposal manifest for these fluids is attached at the end of this report.

RECOMMENDATIONS

Prior to future AFVR events, MECI feels that direct injection of surfactant amended water into the previously installed recovery wells is necessary. If free phase petroleum product continues to show up during groundwater sampling events, the direct injection of surfactant amended water will benefit the remedial efforts. The surfactant amended water will bring hydrocarbons into an oil-in-water microemulsion which will increase the effective solubility of the petroleum hydrocarbons in

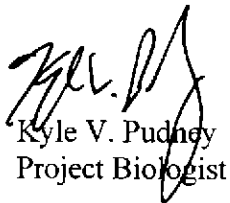
water and will aid in reducing the inter-facial tension between the hydrocarbon and water molecules. This increased effective solubility and reduced inter-facial tension will promote a formation of an aqueous solution between the free product and the groundwater, augmenting hydrocarbon recovery via the recovery well network. MECI has previously used direct injection of Crystal Simple Green® (Surfactant) amended water. Crystal Simple Green® (Surfactant) is cost effective and has produced favorable results. Direct injection of surfactant would take place approximately one to two weeks prior to the extended AFVR events in order to allow for proper stabilization.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI, Mr. Donnie Malphrus of Malphrus Industries, and the South Carolina Department of Health and Environmental Control, 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.

Midlands Environmental appreciates the opportunity to offer our professional environmental related 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.


Kyle V. Pudney
Project Biologist

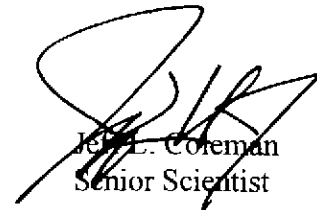

Jeff L. Coleman
Senior Scientist

TABLE 1A
AFVR MONITORING DATA
SHREEJAKSHANI (FORMERLY PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7280
SCDHEC SITE ID NUMBER 10628

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements						
					Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-3R	06/01/20	9:00	0.50	22.5	2,134	0.0	100.00%	1,020	91.80	2.35	1.18
RW-3▼	06/01/20	9:30	0.50	22.5	2,397	0.0	100.00%	1,020	91.80	2.64	1.32
RW-6▼	06/01/20	10:00	0.50	22.5	2,519	0.0	100.00%	1,050	94.50	2.86	1.43
▼	06/01/20	10:30	0.50	22.5	2,670	0.0	100.00%	1,070	96.30	3.09	1.54
▼	06/01/20	11:00	0.50	22.5	2,811	0.0	100.00%	1,110	99.90	3.37	1.68
▼	06/01/20	11:30	0.50	22.5	3,097	0.0	100.00%	1,120	100.80	3.75	1.87
▼	06/01/20	12:00	0.50	22.5	3,038	0.0	100.00%	1,110	99.90	3.64	1.82
▼	06/01/20	12:30	0.50	22.5	3,074	0.0	100.00%	1,100	99.00	3.65	1.83
▼	06/01/20	13:00	0.50	22.5	2,960	0.0	100.00%	1,120	100.80	3.58	1.79
▼	06/01/20	13:30	0.50	22.5	2,957	0.0	100.00%	1,130	101.70	3.61	1.80
▼	06/01/20	14:00	0.50	28.5	2,813	0.0	100.00%	1,140	102.60	3.46	1.73
▼	06/01/20	14:30	0.50	28.5	2,801	0.0	100.00%	1,140	102.60	3.45	1.72
▼	06/01/20	15:00	0.50	28.5	2,796	0.0	100.00%	1,130	101.70	3.41	1.71
▼	06/01/20	15:30	0.50	28.5	2,781	0.0	100.00%	1,110	99.90	3.33	1.67
▼	06/01/20	16:00	0.50	28.5	2,819	0.0	100.00%	1,150	103.50	3.50	1.75
▼	06/01/20	16:30	0.50	28.5	2,957	0.0	100.00%	1,090	98.10	3.48	1.74
▼	06/01/20	17:00	0.50	28.5	2,971	0.0	100.00%	1,070	96.30	3.43	1.72
▼	06/01/20	18:00	1.00	28.5	2,989	0.0	100.00%	1,130	101.70	3.65	1.85
Stinger Depth	06/01/20	19:00	1.00	28.5	3,002	1.2	99.96%	1,150	103.50	3.73	1.87
MW-3R = 11 Ft	06/01/20	20:00	1.00	25.5	3,024	3.9	99.87%	1,150	103.50	3.76	1.88
RW-3 = 11 Ft	06/01/20	21:00	1.00	25.5	3,969	5.7	99.86%	1,110	99.90	4.78	2.40
RW-6 = 14 Ft	06/01/20	22:00	1.00	25.5	2,912	7.4	99.75%	1,090	98.10	3.43	1.73
	06/01/20	23:00	1.00	25.5	2,895	10.3	99.64%	1,120	100.80	3.50	1.78
**	06/02/20	0:00	1.00	26.0	2,872	15.9	99.45%	1,130	101.70	3.50	1.78
	06/02/20	8:00	8.00	26.0	2,205	125.3	94.32%	1,110	99.90	2.64	1.32
	06/02/20	10:00	2.00	25.0	2,136	0.0	100.00%	1,170	105.30	2.70	1.35
Stinger Change	06/02/20	12:00	2.00	21.0	2,349	2.9	99.88%	1,280	115.20	3.25	1.62
MW-3R to 10 Ft	06/02/20	14:00	2.00	20.0	2,401	7.8	99.68%	1,240	111.60	3.22	1.61
RW-3 to 10 Ft	06/02/20	16:00	2.00	20.0	2,374	20.8	99.12%	1,210	108.90	3.10	1.55
RW-6 to 12 Ft	06/02/20	18:00	2.00	20.0	2,412	36.5	98.49%	1,270	114.30	3.31	1.65
	06/02/20	20:00	2.00	20.0	2,519	57.2	97.73%	1,290	116.10	3.51	1.75
	06/02/20	22:00	2.00	20.0	2,476	78.9	96.81%	1,230	110.70	3.29	1.64
	06/03/20	0:00	2.00	20.0	2,513	104.9	95.83%	1,190	107.10	3.23	1.61
**	06/03/20	8:00	8.00	18.0	2,478	397.3	83.97%	1,710	153.90	4.58	2.29
Stinger Change	06/03/20	10:00	2.00	19.0	3,563	0.0	100.00%	1,910	171.90	7.35	3.67
MW-3R to 11 Ft	06/03/20	12:00	2.00	25.0	4,523	8.0	99.82%	1,600	144.00	7.82	3.91
RW-3 to 11 Ft	06/03/20	14:00	2.00	28.0	3,967	18.6	99.53%	1,220	109.80	5.23	2.61
RW-6 to 14 Ft	06/03/20	16:00	2.00	28.0	3,714	30.9	99.17%	1,190	107.10	4.77	2.38
	06/03/20	18:00	2.00	28.0	3,056	104.8	97.28%	1,180	106.20	4.91	2.45
	06/03/20	20:00	2.00	27.0	4,107	227.6	94.46%	1,250	112.50	5.54	2.77
	06/03/20	22:00	2.00	25.0	3,940	341.1	91.34%	1,340	120.60	5.70	2.85
	06/04/20	0:00	2.00	25.0	3,886	463.2	88.06%	1,370	123.30	5.75	2.87
**	06/04/20	8:00	8.00	26.0	3,621	678.9	81.25%	1,300	117.00	5.08	2.54
	06/04/20	10:00	2.00	25.0	3,514	0.0	100.00%	1,260	113.40	4.78	2.39
	06/04/20	12:00	2.00	26.0	3,674	12.3	99.67%	1,440	129.60	5.71	2.85
	06/04/20	14:00	2.00	26.0	3,916	41.9	98.93%	1,510	135.90	6.39	3.19
	06/04/20	16:00	2.00	27.0	3,468	89.6	97.42%	1,470	132.30	5.51	2.75
	06/04/20	18:00	2.00	27.0	3,781	134.3	96.45%	1,420	127.80	5.80	2.90
	06/04/20	20:00	2.00	28.0	3,644	212.9	94.16%	1,360	122.40	5.35	2.67
	06/04/20	22:00	2.00	27.0	3,469	366.4	89.44%	1,510	135.90	5.66	2.83
	06/05/20	0:00	2.00	27.0	3,182	451.3	85.82%	1,450	130.50	4.98	2.49
	06/05/20	8:00	8.00	27.0	3,394	584.9	82.77%	1,290	116.10	4.73	2.36
	06/05/20	9:00	1.00	27.0	3,269	586.5	82.06%	1,300	117.00	4.59	2.29
Well Data:				Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)	
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)			
MW-3R	2"	2-12	2.00	4.50	2.50	***	8.80	***	6.43		
RW-3	4"	2-12	1.70	3.65	1.95	***	11.35	***	9.36		
RW-6	4"	2-15	1.12	10.95	9.83	***	8.10	***	5.51		
Vacuum Truck Information			Well ID	Initial Stinger Depth (ft)	Recovery / Disposal Information						
Contractor:	MECI	MW-3R	5.00	Hydrocarbons Removed (vapor):				411.18	Pounds		
Truck Operator:	C. Phillips	RW-3	5.00	Hydrocarbons Removed (liquid):				0	Gallons		
	J. Phillips	RW-6	10.00	Total Hydrocarbons Removed:				71.03	Equivalent Gallons		
	S. Sprott			Molecular Weight Utilized:				75	g / mole		
	R. Grosslight			Total Liquids Removed				10,023	Gallons		
Stack I.D. (feet)	0.33 feet			Disposal Facility				Regulatory Solutions, Inc.			
Notes:		Well ID	Final Stinger Depth (ft)	Average Treatment System Reduction Rate:				97.02%			
	▼ = Stinger Depth Lowered 0.50 Feet	MW-3R	11.00								
	** = Changed Carbon for 80% Reduction Rate	RW-3	11.00								
		RW-6	14.00								

TABLE 1B
AFVR MONITORING DATA
SHREEJAKSHANI (FORMERLY PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7280
SCDHEC SITE ID NUMBER 10628

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements							
					Pre-Treatment Concentration (PPM)	Post-Treatment Concentration (PPM)	Treatment Reduction Rate (%)	Offgas Velocity (ft/min)	Flow Rate (CFM)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)	
MW-7RR	06/08/20	8:30	0.50	24.0	1,237	0.0	100.00%	1,240	111.60	1.66	0.83	
RW-1	06/08/20	9:00	0.50	24.0	1,341	0.0	100.00%	1,290	116.10	1.87	0.93	
RW-5	06/08/20	9:30	0.50	25.0	1,164	0.0	100.00%	1,360	122.40	1.71	0.85	
▼	06/08/20	10:00	0.50	24.0	1,049	0.0	100.00%	1,250	112.50	1.42	0.71	
▼	06/08/20	10:30	0.50	24.0	846.7	0.0	100.00%	1,400	126.00	1.28	0.64	
▼	06/08/20	11:00	0.50	24.0	903.4	0.0	100.00%	1,410	126.90	1.38	0.69	
▼	06/08/20	11:30	0.50	24.0	741.2	0.0	100.00%	1,360	122.40	1.09	0.54	
▼	06/08/20	12:00	0.50	24.0	697.4	0.0	100.00%	1,330	119.70	1.00	0.50	
▼	06/08/20	12:30	0.50	23.0	703.4	0.0	100.00%	1,270	114.30	0.96	0.48	
▼	06/08/20	13:00	0.50	24.0	598.9	0.0	100.00%	1,240	111.60	0.80	0.40	
▼	06/08/20	13:30	0.50	24.0	580.3	0.0	100.00%	1,280	115.20	0.80	0.40	
▼	06/08/20	14:00	0.50	23.0	601.7	0.0	100.00%	1,350	121.50	0.88	0.44	
▼	06/08/20	14:30	0.50	24.0	547.2	0.0	100.00%	1,340	120.60	0.79	0.40	
▼	06/08/20	15:00	0.50	24.0	530.4	1.7	99.68%	1,360	122.40	0.78	0.39	
▼	06/08/20	15:30	0.50	24.0	536.9	2.9	99.46%	1,430	128.70	0.83	0.41	
▼	06/08/20	16:00	0.50	24.0	559.6	3.6	99.36%	1,370	123.30	0.83	0.41	
Stinger Depth	06/08/20	16:30	0.50	24.0	516.2	5.2	98.99%	1,320	118.80	0.74	0.37	
MW-7RR = 11 Ft	06/08/20	17:30	1.00	24.0	600.7	5.9	99.02%	1,340	120.60	0.87	0.87	
RW-1 = 11 Ft	06/08/20	18:30	1.00	24.0	617.4	6.7	98.91%	1,270	114.30	0.85	0.85	
RW-5 = 14 Ft	06/08/20	19:30	1.00	24.0	584.2	7.9	98.65%	1,390	125.10	0.88	0.88	
	06/08/20	20:30	1.00	24.0	572.9	9.1	98.41%	1,320	118.80	0.82	0.82	
	06/08/20	21:30	1.00	24.0	603.0	9.6	98.41%	1,370	123.30	0.89	0.89	
	06/08/20	22:30	1.00	24.0	627.9	9.9	98.42%	1,430	128.70	0.97	0.97	
	06/08/20	23:30	1.00	24.0	642.3	10.5	98.37%	1,410	126.90	0.98	0.98	
	06/09/20	8:00	8.50	23.0	504.2	16.9	96.65%	1,390	125.10	0.76	6.43	
	06/09/20	10:00	2.00	23.0	516.3	20.2	96.09%	1,350	121.50	0.75	1.51	
	06/09/20	12:00	2.00	23.0	532.5	23.9	95.51%	1,360	122.40	0.78	1.56	
	06/09/20	14:00	2.00	23.0	525.1	30.2	94.25%	1,350	121.50	0.77	1.53	
	06/09/20	16:00	2.00	23.0	520.6	34.9	93.30%	1,310	117.90	0.74	1.47	
	06/09/20	18:00	2.00	25.0	536.5	40.1	92.53%	1,390	125.10	0.81	1.61	
	06/09/20	20:00	2.00	25.0	560.1	57.5	89.73%	1,400	126.00	0.85	1.69	
	06/09/20	22:00	2.00	25.0	602.4	71.3	88.16%	1,320	118.80	0.86	1.72	
	06/10/20	0:00	2.00	25.0	763.9	85.9	88.76%	1,330	119.70	1.10	2.19	
**	06/10/20	8:00	8.00	25.0	1,306	105.1	91.95%	1,340	120.60	1.89	15.12	
Stinger Change	06/10/20	10:00	2.00	25.0	1,164	0.0	100.00%	1,280	115.20	1.61	3.22	
MW-7RR to 10 Ft	06/10/20	12:00	2.00	25.0	1,089	6.8	99.38%	1,340	120.60	1.58	3.15	
RW-1 to 10 Ft	06/10/20	14:00	2.00	25.0	996.0	15.7	98.42%	1,310	117.90	1.41	2.82	
RW-5 to 12 Ft	06/10/20	16:00	2.00	25.0	1,019	33.6	96.70%	1,260	113.40	1.39	2.77	
	06/10/20	18:00	2.00	25.0	967.3	49.3	94.90%	1,340	120.60	1.40	2.80	
	06/10/20	20:00	2.00	25.0	946.4	62.9	93.35%	1,320	118.80	1.35	2.70	
	06/10/20	22:00	2.00	25.0	989.9	86.4	91.27%	1,360	122.40	1.45	2.91	
Stinger Change	06/11/20	0:00	2.00	25.0	1,074	93.9	91.26%	1,290	116.10	1.50	2.99	
06/11/20	8:00	8.00	2.00	26.0	1,169	102.1	91.27%	1,350	121.50	1.70	13.64	
MW-7RR to 11 Ft	06/11/20	10:00	2.00	26.0	854.2	105.9	87.60%	1,300	117.00	1.20	2.40	
RW-1 to 11 Ft	06/11/20	12:00	2.00	26.0	898.0	106.2	88.17%	1,290	116.10	1.25	2.50	
RW-5 to 14 Ft	06/11/20	14:00	2.00	26.0	949.5	108.3	88.59%	1,240	111.60	1.27	2.54	
	06/11/20	16:00	2.00	26.0	1,104	112.7	89.79%	1,230	110.70	1.47	2.93	
	06/11/20	18:00	2.00	26.0	1,124	114.1	89.85%	1,250	112.50	1.52	3.03	
	06/11/20	20:00	2.00	25.0	1,143	117.3	89.74%	1,270	114.30	1.57	3.14	
	06/11/20	22:00	2.00	25.0	1,209	120.3	90.05%	1,210	108.90	1.58	3.16	
	06/12/20	0:00	2.00	25.0	1,226	128.7	89.50%	1,240	111.60	1.64	3.28	
	06/12/20	8:00	8.00	25.0	1,144	203.8	82.19%	1,220	109.80	1.51	12.06	
	06/12/20	8:30	0.50	25.0	1,124	205.1	81.75%	1,200	108.00	1.46	0.73	
Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)			
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)				
MW-7RR	2"	2-12	5.82	6.31	0.49	***	11.13	***				
RW-1	4"	2-12	6.33	6.60	0.27	***	11.19	***	4.59			
RW-5	4"	2-15	6.36	6.52	0.16	***	13.26	***	6.74			
Vacuum Truck Information			Well ID	Initial Stinger Depth (ft)	Recovery / Disposal Information							
Contractor:	MECI	MW-7RR	7.00	Hydrocarbons Removed (vapor):				118.28	Pounds			
Truck Operator:	C. Phillips	RW-1	7.00	Hydrocarbons Removed (liquid):				0	Gallons			
	S. Sprott	RW-5	7.00	Total Hydrocarbons Removed:				20.43	Equivalent Gallons			
	J. Phillips			Molecular Weight Utilized:				75	g / mole			
	R. Grosslight			Total Liquids Removed				3.052	Gallons			
Stack I.D. (feet)	0.33 feet			Disposal Facility				Regulatory Solutions, Inc.				
Notes:		Well ID	Final Stinger Depth (ft)	Average Treatment System Reduction Rate:				95.25%				
		MW-7RR	11.00									
		RW-1	11.00									
		RW-5	14.00									
▼ = Stinger Depth Lowered 0.50 Feet												
** = Changed Carbon for 80% Reduction Rate												

**TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SHREEJAKSHANI (FORMER PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7280
SCDHEC SITE ID NUMBER 10628**

DIFFERENTIAL PRESSURE DATA

			MW-4R	
			MW-14	
Nearest Extraction Well:			RW-3	
Approximate Distance:			16 ft	
Time	Prior to AFVR	Elapsed Time		
9:00		0.0	0.0	2.0
9:30		0.5	0.0	2.0
10:00		1.0	0.0	3.0
10:30		1.5	0.0	3.0
11:00		2.0	0.0	5.0
11:30		2.5	0.0	5.0
12:00		3.0	0.0	5.0
12:30		3.5	0.0	6.0
13:00		4.0	0.0	6.0
13:30		4.5	0.0	6.0
14:00		5.0	0.0	6.0
14:30		5.5	0.0	7.0
15:00		6.0	0.0	7.0
15:30		6.5	0.0	7.0
16:00		7.0	0.0	7.0
16:30		7.5	0.0	7.0
17:00		8.0	0.0	8.0
18:00		9.0	0.0	8.0
19:00		10.0	0.0	8.0
20:00		11.0	0.0	7.0
21:00		12.0	0.0	7.0
22:00		13.0	0.0	7.0
23:00		14.0	0.0	8.0
0:00		15.0	0.0	9.0
8:00		23.0	0.0	9.0
10:00		25.0	0.0	8.0
12:00		27.0	0.0	7.0
14:00		29.0	0.0	8.0
16:00		31.0	0.0	9.0
18:00		33.0	0.0	8.0
20:00		35.0	0.0	7.0
22:00		37.0	0.0	8.0
0:00		39.0	0.0	8.0
8:00		47.0	0.0	8.0
10:00		49.0	0.0	7.0
12:00		51.0	0.0	7.0
14:00		53.0	0.0	8.0
16:00		55.0	0.0	9.0
18:00		57.0	0.0	9.0
20:00		59.0	0.0	9.0
22:00		61.0	0.0	9.0
0:00		63.0	0.0	9.0
8:00		71.0	0.0	8.0
10:00		73.0	0.0	8.0
12:00		75.0	0.0	8.0
14:00		77.0	0.0	9.0
16:00		79.0	0.0	9.0
18:00		81.0	0.0	7.0
20:00		83.0	0.0	8.0
22:00		85.0	0.0	8.0
0:00		87.0	0.0	8.0
8:00		95.0	0.0	7.0
9:00		96.0	0.0	7.0
Maximum Change:			0.0	9.0

GROUNDWATER DRAWDOWN DATA

			MW-4R	
			MW-14	
Nearest Extraction Well:			RW-3	
Approximate Distance:			16 ft	
Time	Prior to AFVR	Elapsed Time		
13:00		4 hours	2.07	2.10
17:00		8 hours	2.15	2.20
21:00		12 hours	2.21	2.25
1:00		16 hours	2.24	2.30
5:00		20 hours	***	***
8:00		23 hours	2.33	2.42
12:00		27 hours	2.35	2.43
16:00		31 hours	2.36	2.45
20:00		35 hours	2.37	2.46
0:00		39 hours	2.42	2.47
4:00		43 hours	***	***
8:00		47 hours	2.42	2.50
12:00		51 hours	2.46	3.51
16:00		55 hours	2.50	4.12
20:00		59 hours	2.56	4.68
0:00		63 hours	2.63	5.37
4:00		67 hours	***	***
8:00		71 hours	2.89	6.24
12:00		75 hours	2.97	6.39
16:00		79 hours	3.03	6.43
20:00		83 hours	3.11	6.59
0:00		87 hours	3.16	6.69
4:00		91 hours	***	***
8:00		95 hours	3.21	6.78
9:00		96 hours	3.22	6.79
Maximum Change:			-1.15	-4.69

*** = Readings Not Required Between 12AM & 8AM per QAPP

**TABLE 2B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SHREEJAKSHANI (FORMER PANTRY 911)
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 20-7280
SCDHEC SITE ID NUMBER 10628**

DIFFERENTIAL PRESSURE DATA				
			MW-15	RW-4
Nearest Extraction Well:			RW-1	MW-7RR
Approximate Distance:			82 ft	11 ft
Time	Prior to AFVR	Elapsed Time		
8:30		0.0	0.0	0.0
9:00		0.5	0.0	7.0
9:30		1.0	0.0	7.0
10:00		1.5	0.0	7.0
10:30		2.0	0.0	7.0
11:00		2.5	0.0	7.0
11:30		3.0	0.0	7.0
12:00		3.5	0.0	7.0
12:30		4.0	0.0	7.0
13:00		4.5	0.0	7.0
13:30		5.0	0.0	7.0
14:00		5.5	0.0	7.0
14:30		6.0	0.0	7.0
15:00		6.5	0.0	7.0
15:30		7.0	0.0	7.0
16:00		7.5	0.0	7.0
16:30		8.0	0.0	7.0
17:30		9.0	0.0	6.0
18:30		10.0	0.0	6.0
19:30		11.0	0.0	7.0
20:30		12.0	0.0	7.0
21:30		13.0	0.0	7.0
22:30		14.0	0.0	7.0
23:30		15.0	0.0	6.0
8:00		23.5	0.0	5.0
10:00		25.5	0.0	5.0
12:00		27.5	0.0	5.0
14:00		29.5	0.0	5.0
16:00		31.5	0.0	5.0
18:00		33.5	0.0	5.0
20:00		35.5	0.0	6.0
22:00		37.5	0.0	5.0
0:00		39.5	0.0	5.0
8:00		47.5	0.0	5.0
10:00		49.5	0.0	5.0
12:00		51.5	0.0	5.0
14:00		53.5	0.0	5.0
16:00		55.5	0.0	5.0
18:00		57.5	0.0	5.0
20:00		59.5	0.0	5.0
22:00		61.5	0.0	5.0
0:00		63.5	0.0	5.0
8:00		71.5	0.0	5.0
10:00		73.5	0.0	5.0
12:00		75.5	0.0	5.0
14:00		77.5	0.0	5.0
16:00		79.5	0.0	5.0
18:00		81.5	0.0	5.0
20:00		83.5	0.0	5.0
22:00		85.5	0.0	4.0
0:00		87.5	0.0	4.0
8:00		95.5	0.0	4.0
8:30		96.0	0.0	4.0
Maximum Change:			0.0	7.0
GROUNDWATER DRAWDOWN DATA				
			MW-15	RW-4
Nearest Extraction Well:			RW-1	MW-7RR
Approximate Distance:			82 ft	11 ft
Time	Prior to AFVR	Elapsed Time		
12:30		4 hours	2.69	7.11
16:30		8 hours	2.71	8.24
20:30		12 hours	2.76	8.43
0:30		16 hours	2.78	8.50
4:30		20 hours	***	***
8:00		23.5 hours	2.77	8.54
12:00		27.5 hours	2.77	8.61
16:00		31.5 hours	2.77	8.64
20:00		35.5 hours	2.78	8.65
0:00		39.5 hours	2.79	8.67
4:00		43.5 hours	***	***
8:00		47.5 hours	2.82	8.73
12:00		51.5 hours	2.83	8.76
16:00		55.5 hours	2.84	8.81
20:00		59.5 hours	2.88	8.84
0:00		63.5 hours	2.91	8.89
4:00		67.5 hours	***	***
8:00		71.5 hours	2.93	8.91
12:00		75.5 hours	2.95	8.96
16:00		79.5 hours	2.96	8.96
20:00		83.5 hours	2.97	8.96
0:00		87.5 hours	3.00	8.96
4:00		91.5 hours	***	***
8:00		95.5 hours	3.17	8.98
8:30		96 hours	3.17	8.99
Maximum Change:			-0.48	-1.88

*** = Readings Not Required Between 12AM & 8AM per QAPP

AFVR CALIBRATION LOG

Site Name Sheejakshani (Former Pantry 911)
MECI # 20-7280
Date 6/1/2020-6/5/2020
Field Personnel R.G., J.P., C.P., S.S.
Serial # 592-902491

Hours	Time	Zero Cal.	Span Cal.
0	9 00	0 0	100 1
8	17 00	0 0	100 2
16	1 00	0 0	100 0
24	9 00	0 0	100 3
32	17 00	0 0	100 1
40	1 00	0 0	100 2
48	9 00	0 0	100 0
56	17 00	0 0	100 0
64	1 00	0 0	99 9
72	9 00	0 0	100 5
80	17 00	0 0	100 8
88	1 00	0 0	99 6
96	9 00	0 0	100 2

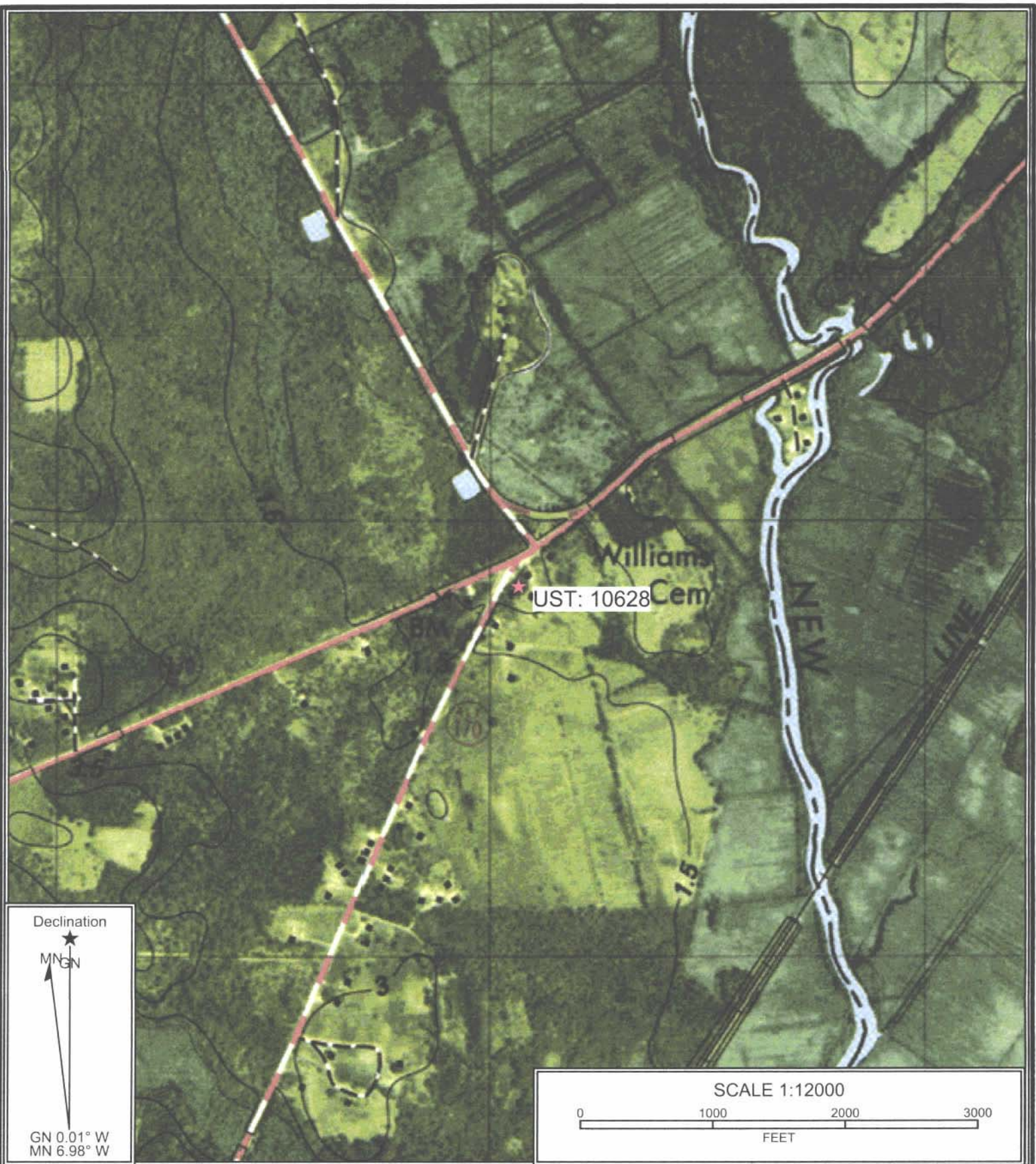
Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm

AFVR CALIBRATION LOG

Site Name Sheejakshani (Former Pantry 911)
MECI # 20-7280
Date 6/8/2020-6/12/2020
Field Personnel R.G., J.P., C.P., S.S.
Serial # 592-902491

Hours	Time	Zero Cal.	Span Cal.
0	8 30	0 0	100 0
8	16 30	0 0	100 0
16	0 30	0 0	100 1
24	8 30	0 0	100 2
32	16 30	0 0	100 0
40	0 30	0 0	100 3
48	8 30	0 0	100 1
56	16 30	0 0	100 0
64	0 30	0 0	100 0
72	8 30	0 0	100 0
80	16 30	0 0	100 0
88	0 30	0 0	100 1
96	8 30	0 0	100 0

Additional Notes: Isobutylene used as Calibration Gas with a Concentration of 100 ppm



Reference: Limehouse and Hardeeville, South Carolina
 Jasper and Pritchardville, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval-1.5 Meters

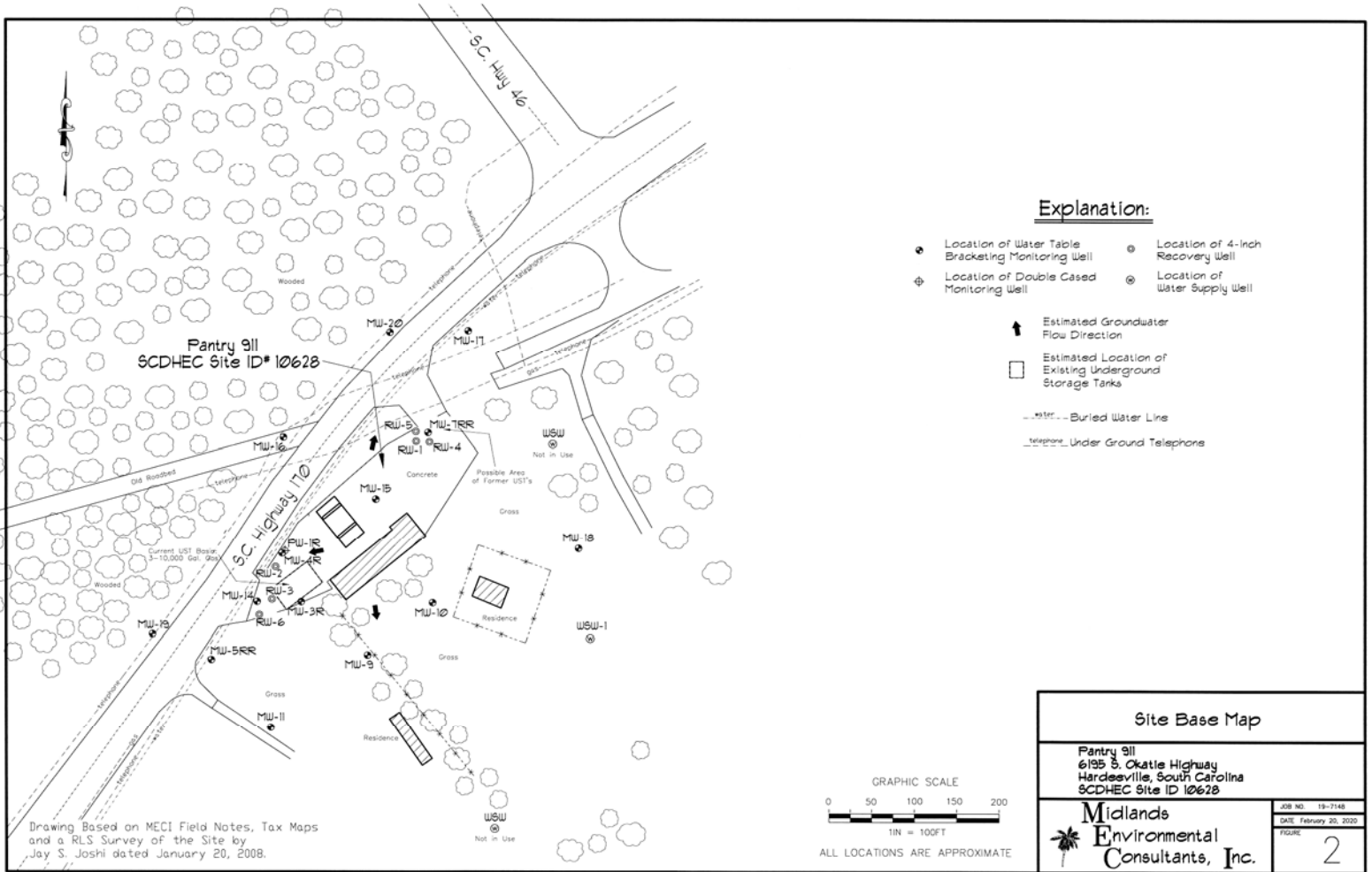
Midlands
 Environmental
 Consultants, Inc.

Site Location

Pantry 911
 6195 South Okatie Highway, Hardeeville, SC
 SCDHEC Site ID# 10628

Figure 1

MECI 20-1280

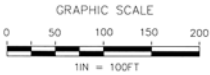


Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased Monitoring Well
- Location of 4-Inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Buried Water Line
- Under Ground Telephone

Site Base Map

Pantry 911
 6195 S. Okatie Highway
 Hardeeville, South Carolina
 SCDHEC Site ID 10628



ALL LOCATIONS ARE APPROXIMATE

	JOB NO. 19-2148
	DATE February 20, 2020
	FIGURE 2

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.

03:13 PM Jun/04/2020
TRUCK ID: 15077
GROSS 81220 LB
TARE LB
NET LB

04:03 PM Jun/04/2020
TRUCK ID: 15077
GROSS 81220 LB
TARE 26820 LB
NET 54400 LB

regulatory solutions, inc.

CUSTOMER NAME: MIDLANDS
GENERATOR: ADVA HARDEEVILLE
TRUCK/CONTAINER #: TR01-TR07
MANIFEST #: 31090

WEIGHER (INITIALS): LR

15077

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

1

803-926-0089

31090

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Midlands Environmental Consultant

P.O. Box 854

235 Dooley Road

Lexington, SC 29071-

Lexington SC 29073

Generator's Phone:

803-808-2043

6. Transporter 1 Company Name

Regulatory Solutions, Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Regulatory Solutions, Inc.

40 Pascon Court

Gaston, SC 29053-

Facility's Phone:

803-926-0089

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt. Vol

No.

Type

1. NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045

1

TT

40.0

6524

2.

3.

4.

13. Special Handling Instructions and Additional Information

Hardeeville Tanker 1

TK07

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeor's Printed/Typed Name

Signature

Month Day Year

X Puse Crosslight

[Signature]

6 4 20

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

[Signature]

[Signature]

6 4 20

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b: Alternate Facility (or Generator)

U.S EPA ID Number

Facility's Phone

17c: Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 17a.

Printed/Typed Name

Signature

Month Day Year

SPENCER REDFERN

[Signature]

6 4 20

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

01:55 PM Jun/17/2020

TRUCK ID: 15148

GROSS 80280 LB

TARE 18

NET 18

03:05 PM Jun/17/2020

TRUCK ID: 15148

GROSS 80280 LB

TARE 25620 LB

NET 54640 LB

regulatory solutions, inc.

CUSTOMER NAME: MIDLANDS

GENERATOR: AFM HARDESVILLE

TRUCK/CONTAINER #: TF01-TK04

MANIFEST #: 3116

WEIGHER (INITIALS): DN

15148

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

1

803-926-0089

31116

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Midlands Environmental Consultant

P.O. Box 854

235 Dooley Road

Generator's Phone:

Lexington, SC 29071-

Lexington SC 29073

6. Transporter 1 Company Name

Regulatory Solutions, Inc

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Regulatory Solutions, Inc.

40 Pascon Court

Gaston, SC 29053-

U.S. EPA ID Number

Facility's Phone: 803-926-0089

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total

Quantity

12. Unit

Wt. Vol.

1. NON-RCRA, NOT DOT REGULATED MATERIAL 10662 - 1045

1

T1

43"

6,550g

GENERATOR

13. Special Handling Instructions and Additional Information

Hardeeville Tanker

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

X Kyle V. Pudney

X *Kyle V. Pudney*

6 | 12 | 20

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

DAVID L. MITCHELL

David L. Mitchell

6 | 12 | 20

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a.

Printed/Typed Name

Signature

Month Day Year

SPENCER REDFERN

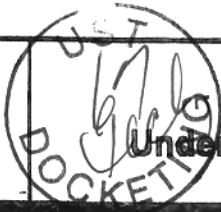
Spencer Redfern

6 | 12 | 20

DESIGNATED FACILITY

INTL

TRANSPORTER



Owner/Operator Contractor Selection Form
Underground Storage Tank (UST) Management Division



1. CONTRACTOR OF CHOICE

As the current or former UST Owner/Operator and the designated party responsible for the confirmed release reported on the date and permit number provided. Date: 12/15/20 Permit Number: 10628

I would like to use the contractor listed below and request that they represent me for:
 Directed work scope:
 All future site rehabilitation scopes, except pay-for-performance contract solicitation.

Name of Contractor: Kotawba Environmental, Inc.
 Address: 4275 Dye Road
 City: Edgemont State: SC Zip: 29712
 Telephone Number: (803) 417-4500 UCC Number: 18

NOTE: After September 20, 1997, rehabilitation activities must be performed by a S.C. Certified Site Rehabilitation Contractor per Section 44-2-120(A) of the SUPERB Act and Section IV(A) of the S.C. DHEC SUPERB Site Rehabilitation and Fund Access Regulation R.61-98.

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? Yes No O/O Initial: [Signature]

FINANCIAL RELATIONSHIP: A connection or association through a material interest of sources of income which exceed five percent of annual gross income from a business entity.
FAMILIAL RELATIONSHIP: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great-grandchild, step-grandparent, step-great-grandparent, step-grandchild, step-great-grandchild or fiancée.

3. PAYMENT

A. The first \$25,000.00 in eligible site rehabilitation costs for releases reported subsequent to July 1, 1993 will be applied against the applicable SUPERB deductible per Section 44-2-40(D) of the SUPERB Act, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.

B. For eligible costs exceeding the \$25,000.00 deductible, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (Check one.)

For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor. O/O Initial:

- OR -

For eligible costs exceeding the deductible, I request that payment be made directly to the contractor. O/O Initial: [Signature]

C. If the release qualifies under amnesty (reported prior to July 1, 1993) per Section 44-2-40(B) of the SUPERB Act, you can pay the contractor and be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (Check one.)

For eligible costs, I request that payment be made to me after I have paid the contractor. O/O Initial:

- OR -

For eligible costs, I request that payment be made directly to the contractor. O/O Initial:

NOTE: As required by the SUPERB Act, all costs must receive prior financial approval from DHEC regardless of payment option.

4. UST OWNER/OPERATOR OR PARTY RESPONSIBLE FOR ABOVE REFERENCED RELEASE

Signature: [Signature] Date Signed: 12-21-20
 Printed Name: Shirish Shah Telephone Number: (843) 505-6740
 Affiliation (if applicable): OWNER Email Address: om6194@gmail.com



FEB 01 2021

MALPHRUS ENTERPRISES
2789 N OKATIE HWY
RIDGELAND SC 29936-8235

Re: **Site-Specific Work Plan Request for Groundwater Sampling**
Shreejakshani LLC DBA Okatie Mart, 6195 S. Okatie Highway, Hardeeville, SC
UST Permit #10628
Release reported April 28, 1995
AFVR Report received July 14, 2020
Jasper County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at SCDHEC.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

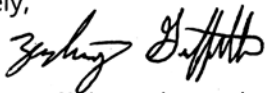
Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1,000-foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling.

Your contractor must complete the SSWP and submit it within 30 days from the date of this letter. 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 approval from DHEC must be issued before work begins.**



On all correspondence concerning this site, please reference UST Permit #10628. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0606, by fax at (803) 898-0673, or by e-mail at griffiza@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Zachary Griffith". The signature is written in a cursive, somewhat stylized font.

Zachary Griffith, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Katawba Environmental Inc., 4278 Dye Road, Edgemoor, SC 29712
Technical file



Katawba Environmental, Inc.

March 1, 2021

Mr. Zach Griffith
SCDHEC
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708



**RE: SSWP
SHREEJAKSHANI LLC DBA OKATIE MART
SITE ID# 10628
HARDEEVILLE, SOUTH CAROLINA**

Dear Mr. Griffith:

Katawba Environmental, Inc. (Katawba) has prepared this SSWP for the above-referenced facility for your review. If we can be of further assistance or provide any additional information, do not hesitate to contact me at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC.

Alex W. Amos, PG
Principal



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



To: Zach Griffith (SCDHEC Project Manager)
From: Alex Amos, PG (Contractor Project Manager)
Contractor: Katawba Environmental, Inc. UST Contractor Certification Number: 18

Facility Name: Shreejakshani LLC DBA Okatie Mart UST Permit #: 10628
Facility Address: 2789 N Okatie Highway, Hardeeville, SC
Responsible Party: Shreejakshani LLC Phone: 843 784 6194
RP Address: 2789 N Okatie Highway, Hardeeville, SC
Property Owner (if different): Same
Property Owner Address: Same
Current Use of Property: Convenience store that retails petroleum products. Site ID 10628

Scope of Work (Please check all that apply)
[] IGWA [] Tier II [x] Groundwater Sampling [] GAC
[] Tier I [] Monitoring Well Installation [] Other

Analyses (Please check all that apply)
Groundwater/Surface Water:
[x] BTEXNMDCA (8260B) [] Lead [] BOD [] Methane
[] Oxygenates (8260B) [] 8 RCRA Metals [] Nitrate [] Ethanol
[x] EDB (8011) [] TPH [] Sulfate [] Dissolved Iron
[] PAH (8270D) [] pH [] Other
Drinking Water Supply Wells:
[x] BTEXNMDCA (524.2) [] Mercury (200.8 245.1 or 245.2) [] EDB (504.1)
[] Oxygenates & Ethanol (8260B) [] 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 1 Water Supply Wells Air 2 Field Blank
23 Monitoring Wells 3 Surface Water 2 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
Comments, if warranted:

UST Permit #: 10628 Facility Name: Shreejakshani LLC

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 10 Days from approval Field Work Completion: 30 Days from approval

Report Submittal: 60 Days from approval # 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: _____ 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/repai red, 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: _____

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

Name of Well Driller: _____

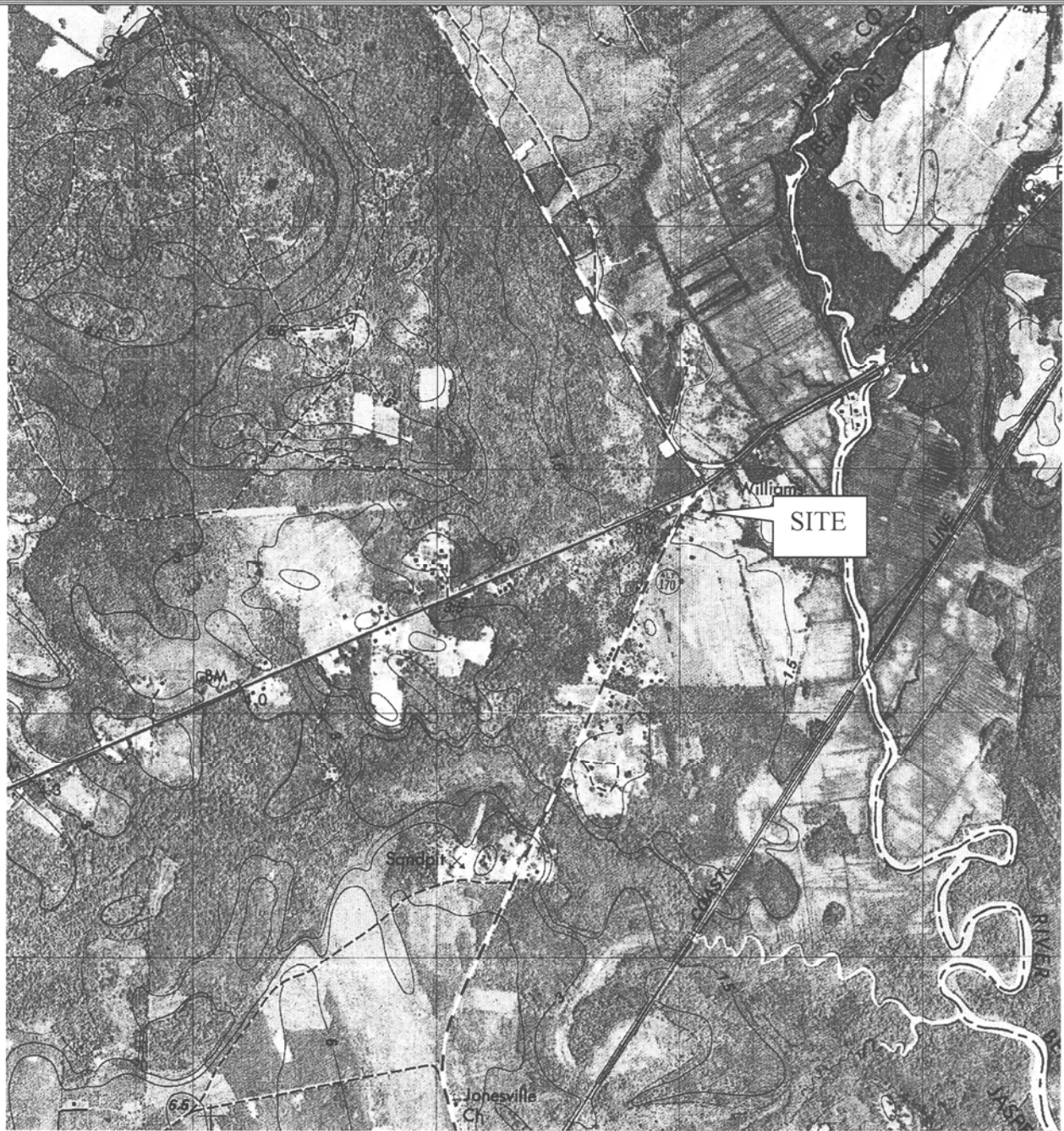
SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

Attachments

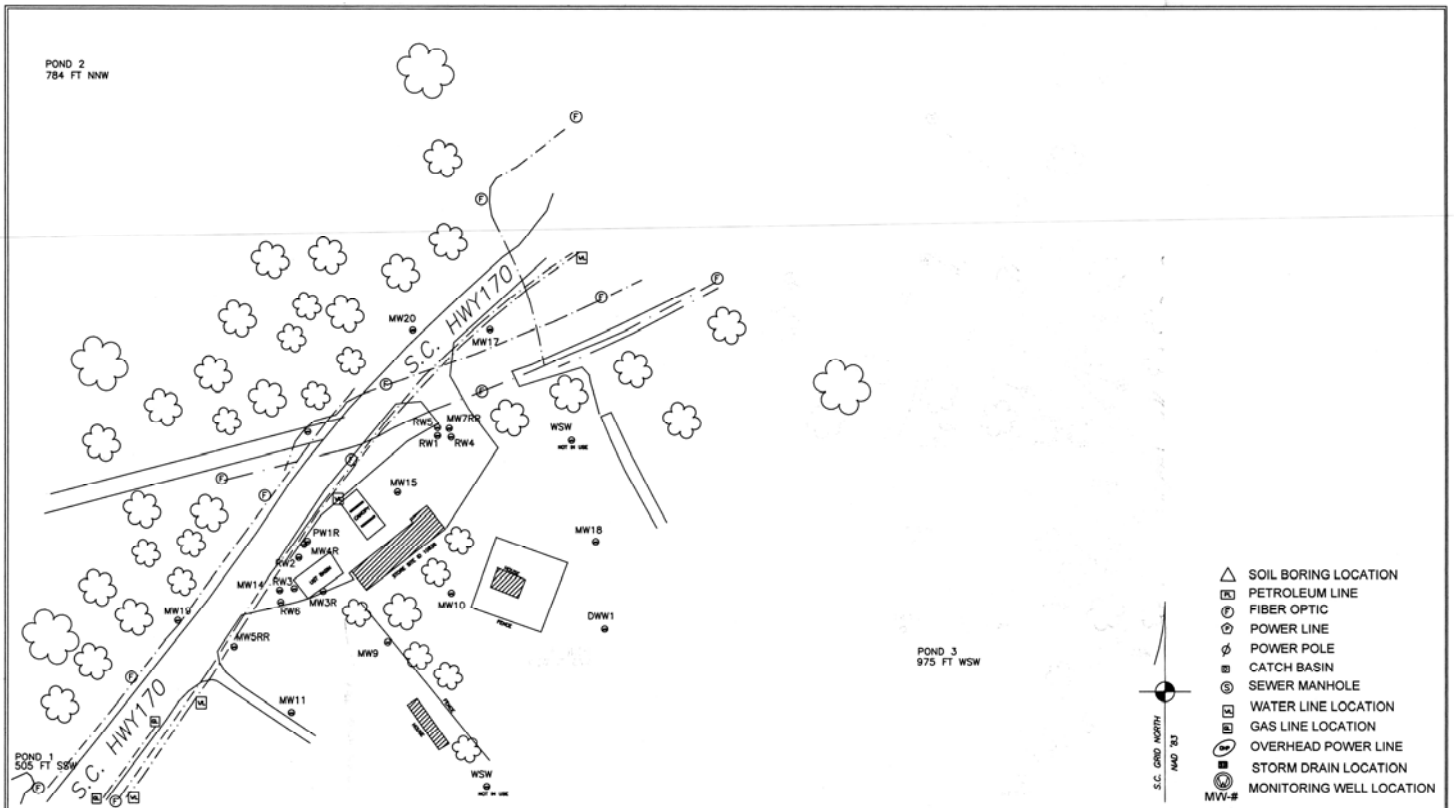
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

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

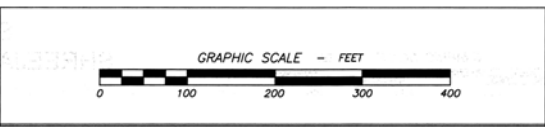


KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

SAMPLING REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18



SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: Okatie Mart

UST Permit #: 10628

Cost Agreement #: _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan	1	each	\$160.05	\$160.05
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
B. Receptor Survey *		each	\$587.92	\$0.00
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey Subsurface Geophysical Survey		each	\$1,109.68	\$0.00
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mob/Demob				
1. Equipment		each	\$1,088.34	\$0.00
2. Personnel	2	each	\$451.34	\$902.68
3. Adverse Terrain Vehicle		each	\$533.50	\$0.00
E.. Soil Borings (hand auger)*		foot	\$5.34	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
1. Standard		per foot	\$16.01	\$0.00
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less		per foot	\$3.31	\$0.00
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)		per foot	\$11.31	\$0.00
2. Water Table (drill rig) 2" Diameter		per foot	\$40.55	\$0.00
3. Telescoping		per foot	\$53.35	\$0.00
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00

J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge	1	per well	\$64.02	\$64.02
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate	2	sample	\$23.47	\$46.94
4. Groundwater No Purge or Duplicate or Grab	25	sample	\$29.88	\$747.00
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank	2	sample	\$26.25	\$52.50
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00
K. Laboratory Analyses-Groundwater				
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	29	per sample	\$130.17	\$3,774.93
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's		per sample	\$64.66	\$0.00
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011	28	per sample	\$48.23	\$1,350.44
8. EDB by EPA Method 8011 Rush		per sample	\$72.77	\$0.00
9. 8 RCRA Metals		per sample	\$67.65	\$0.00
10. TPH (9070)		per sample	\$43.75	\$0.00
11. PH		per sample	\$5.55	\$0.00
12. BOD		per sample	\$21.34	\$0.00
13. Ethanol		per sample	\$15.79	\$0.00
K. Analyses-Drinking Water				
14. BTEXNM+1,2 DCA (524.2)	4	per sample	\$132.36	\$529.44
15. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$97.90	\$391.60
16. EDB (504.1)	3	per sample	\$84.83	\$254.49
17. RCRA METALS (200.8)		per sample	\$106.70	\$0.00
K. Analyses-Soil				
18. BTEX + Naphth.		per sample	\$68.29	\$0.00
19. PAH's		per sample	\$68.33	\$0.00
20. 8 RCRA Metals		per sample	\$60.18	\$0.00
21. TPH-DRO (3550C/8015C)		per sample	\$42.68	\$0.00
22. TPH- GRO (5035B/8015C)		per sample	\$38.37	\$0.00
23. Grain size/hydrometer		per sample	\$110.97	\$0.00
24. Total Organic Carbon		per sample	\$32.65	\$0.00
K. Analyses-Air				
25. BTEX + Naphthalene		per sample	\$230.47	\$0.00
K. Analyses-Free Phase Product				
26. Hydrocarbon Fuel Identification		per sample	\$380.92	\$0.00
L. Aquifer Characterization*				
1. Pumping Test		per hour	\$24.54	\$0.00
2. Slug Test		per test	\$203.80	\$0.00
3. Fractured Rock		per test	\$106.70	\$0.00

M. Free Product Recovery Rate Test*		each	\$40.55	\$0.00
N. Fate/Transport Modeling				
1. Mathematical Model		each	\$106.70	\$0.00
2. Computer Model		each	\$106.70	\$0.00
O. Risk Evaluation				
1. Tier I Risk Evaluation		each	\$320.10	\$0.00
2. Tier II Risk Evaluation		each	\$106.70	\$0.00
P. Subsequent Survey*		each	\$260.00	\$0.00
Q. Disposal (gallons or tons)*				
1. Wastewater		gallon	\$0.60	\$0.00
2. Free Product		gallon	\$0.53	\$0.00
3. Soil Treatment/Disposal		ton	\$64.02	\$0.00
4. Drilling fluids		gallon	\$0.45	\$0.00
R. Miscellaneous (attach receipts)		each	\$0.00	\$0.00
T. Tier I Assessment (Use DHEC 3665 form)				
1. Southeast Region		standard	\$11,026.00	\$0.00
2. All Other Counties		standard	\$12,093.00	\$0.00
U. IGWA (Use DHEC 3666 form)				
1. Southeast Region		standard	\$3,803.00	\$0.00
2. All Other Counties		standard	\$4,123.00	\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid		\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)				
1. 8-hour Event*		per event	\$1,467.13	\$0.00
2. 24-hour Event*		per event	\$4,081.28	\$0.00
3. 48-hour Event*		per event	\$6,706.10	\$0.00
4. 96-hour Event*		per event	\$13,409.52	\$0.00
5. Off-gas Treatment 8 hour		per event	\$130.71	\$0.00
6. Off-gas Treatment 24 hour		per event	\$257.68	\$0.00
7. Off-gas Treatment 48 hour		per event	\$348.91	\$0.00
8. Off-gas Treatment 96 hour		per event	\$832.26	\$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$430.00	\$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$500.00	\$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,000.00	\$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,000.00	\$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.50	\$0.00
14. AFVR Site Reconnaissance		each	\$216.87	\$0.00
15. Additional Hook-ups		each	\$27.48	\$0.00
16. AFVR Effluent Disposal		gallon	\$0.47	\$0.00
17. AFVR Mobilization/Demobilization		each	\$417.73	\$0.00
X. Granulated Activated Carbon (GAC) filter system installation & service:				
1. New GAC System Installation*		each	\$2,027.30	\$0.00
2. Refurbished GAC Sys. Install*		each	\$960.30	\$0.00
3. Filter replacement/removal*		each	\$373.45	\$0.00
4. GAC System removal, cleaning, & refurbishment*		each	\$293.43	\$0.00
5. GAC System housing*		each	\$266.75	\$0.00

6. In-line particulate filter		each	\$160.05	\$0.00
7. Additional piping & fittings		foot	\$1.60	\$0.00
Y. Well Repair				
1. Additional Copies of the Report Delivered		each	\$53.35	\$0.00
2. Repair 2x2 MW pad*		each	\$53.35	\$0.00
3. Repair 4x4 MW pad*		each	\$93.90	\$0.00
4. Replace well vault*		each	\$125.91	\$0.00
5. Replace well cover bolts		each	\$2.77	\$0.00
6. Replace locking well cap & lock		each	\$16.00	\$0.00
7. Replace/Repair stick-up*		each	\$142.98	\$0.00
8. Convert Flush-mount to Stick-up*		each	\$160.05	\$0.00
9. Convert Stick-up to Flush-mount*		each	\$138.71	\$0.00
10. Replace missing/illegible well ID plate		each	\$12.80	\$0.00
S. Report Prep & Project Management	12%	percent	\$8,274.09	\$992.89
TOTAL				\$9,266.98

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



MALPHRUS ENTERPRISES
2789 N OKATIE HWY
RIDGELAND SC 29936

MAR 24 2021

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Shreejakshani LLC DBA Okatie Mart, 6195 S. Okatie Hwy., Hardeeville, SC
UST Permit #10628; CA #63419
Release #1 reported April 28, 1995
Site Specific Work Plan received March 5, 2021
Jasper County

To Whom It May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** 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 the SUPERB Account cannot compensate any costs that are not pre-approved. 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 UST Division 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 UST Division 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.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), 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 RBSLs.

On all correspondence regarding this site, please reference UST Permit #10628. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0606, by fax at (803) 898-0673, or by e-mail at griffiza@dhec.sc.gov.

Sincerely,



Zachary Griffith, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Katawba Environmental Inc., 4278 Dye Road, Edgemoor, SC 29712 (w/ enc)
Technical file (w/ enc)

Approved Cost Agreement 63419

Facility: 10628 SHREEJAKSHANI LLC DBA OKATIE MART

GRIFFIZA

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	\$160.050	160.05
D MOB/DEMOB					
		2 PERSONNEL	2.0000	\$451.340	902.68
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	1.0000	\$64.020	64.02
		3 WATER SUPPLY SAMPLE/ DUPLICATE	2.0000	\$23.470	46.94
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	25.0000	\$29.880	747.00
		8 FIELD BLANK	2.0000	\$26.250	52.50
K ANALYSES					
DW DRINKING WATER		14 BTEXNM+1,2 DCA (524.2) WSW	4.0000	\$132.360	529.44
		15 OXYGENATES & ETHANOL 8260B WSW	4.0000	\$97.900	391.60
		16 EDB (504.1) WSW	3.0000	\$84.830	254.49
GW GROUNDWATER		1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	29.0000	\$130.170	3,774.93
		7 EDB BY EPA 8011	28.0000	\$48.230	1,350.44
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$8,274.090	992.89
Total Amount					9,266.98

10628

Alex "Chip" Amos, PG <Katawba@comporium.net>

Fri 4/23/2021 11:41 AM

To: Griffith, Zachary A. <griffiza@dhec.sc.gov>

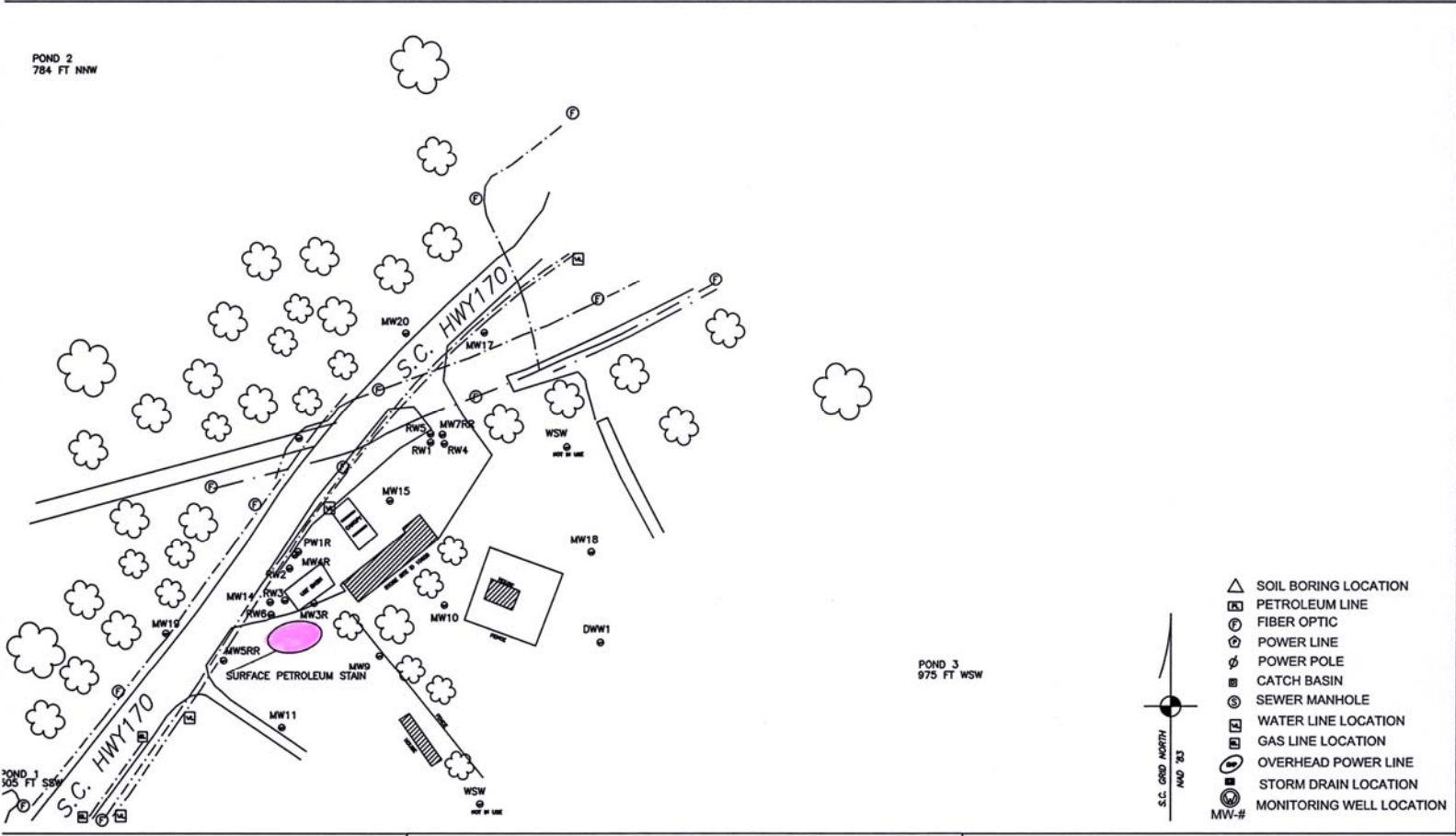
 2 attachments (9 MB)

Okatie Site Map Zachory Griffith.pdf; IMG_7786.jpg;

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

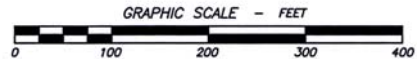
Zachary: Please find attached the map and photograph as discussed. Heavy petroleum staining at a lower elevation than the tank basin. FP in RW3 and RW6. Color (black) of free product matched the color of the surficial staining. Distressed (dead) vegetation in the marsh. I think that multiple AFVRs may be needed to reduce risk in the near future.





- △ SOIL BORING LOCATION
- ▣ PETROLEUM LINE
- ⊕ FIBER OPTIC
- ⊖ POWER LINE
- ⊙ POWER POLE
- ⊞ CATCH BASIN
- ⊗ SEWER MANHOLE
- ⊠ WATER LINE LOCATION
- ⊡ GAS LINE LOCATION
- ⊚ OVERHEAD POWER LINE
- ⊛ STORM DRAIN LOCATION
- ⊙ MW-# MONITORING WELL LOCATION

KATAWBA ENVIRONMENTAL, INC.
 1278 DYE ROAD
 EDGEMOOR, SC 29712
 803)327-0469 UCC#18



SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC





Katawba Environmental, Inc.



June 3, 2021

Mr. Zachary Griffith
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708



**RE: SAMPLING REPORT
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628 CA #63419
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA**

Dear Mr. Griffith:

Katawba Environmental, Inc. (Katawba) has prepared this Sampling Report for the above-referenced facility for your review. This event was conducted in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated March 24, 2021.

It is recommended that multiple AFVR events be conducted at the site as the next appropriate scope of work. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant



Sampling Report
Shreejakshani
DBA Okatie Mart
6195 S. Okatie Hwy.
Hardeeville, SC
UST Permit #10628



A handwritten signature in black ink, appearing to read "Alex W. Amos".

Alex W. Amos, CEO, PG
Senior Consultant

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1.0 INTRODUCTION

Katawba Environmental, Inc. has been contracted by Shirishi Shah to complete a comprehensive sampling event for Okatie Mart. The Subject Site (Site ID 10628) is located at 6195 S. Okatie Highway in Hardeeville, South Carolina (Appendix A, Figure 1). The subject site currently operates as a convenience store that retails petroleum products. The surrounding area is residential in use. The subject site is abutted by residential parcels to the north, east and south. An undeveloped timber tract is adjacent to the east across Okatie Highway to the east.

The release at the subject site was reported April 28, 1995. The lines and dispersers at the site were changed in November 2020. This current SOW included the sampling of all wells within the entire monitoring well network.

- Monitoring wells MW4R, MW7R, MW14, RW1 and RW4 were above the established RBSL for petroleum based constituents.
- 0.38 FT free product was associated with MW3R.
- 0.67 FT free product was associated with RW2.
- 1.87 FT free product was associated with RW3.
- 0.10 FT free product was associated with RW5.
- 2.98 FT free product was associated with RW6.
- Suspected petroleum hydrocarbon soil staining appeared to be present in the marsh / wetland area at the time of the assessment.
- Monitoring wells MW9, MW10, MW11, MW16 and MW17 could not be located and were therefore not sampled for this scope of work.

2.0 ASSESSMENT INFORMATION

The responsible party for the subject site is Shreejakshani DBA Okatie Mart, 6195 S. Okatie Highway, Hardeeville South Carolina 29927. Shirishi Shah is the contact for Okatie Mart and can be communicated with via mail or phone at (843) 784-6194. According to Jasper County Tax Assessor records the parcel is currently owned by Shree Jakshani, LLC, 6194 S. Okatie Hwy., Hardeeville, SC 29927. The current owners purchased the parcel in 2014 from Malphrus Enterprises. The subject site is a triangular shaped parcel that is occupied by one primary structure that contains the convenience store and permitted UST system. The subject site is listed with the Jasper County Assessor's Office as TM 039-00-10-025.

Piezometric data for all monitoring wells associated with the release at the Okatie Mart site can be found in Table 1. A piezometric map was created utilizing groundwater elevations measured during sampling of the wells on April 12, 2021. The piezometric map is included as Figure 3 in Appendix A.

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

TABLE 1 Groundwater Data (feet) Okatie Mart Site ID 10628

Monitoring Well	Date	TOC Elevation	Screened Interval (below land surface)	TOC to FP	TOC to GW	GW Elevation
MW3R	4/12/21	94.56	2-12	2.32	2.70	91.86
MW4R	4/12/21	93.75	5-15	--	2.31	91.44
MW5RR	4/12/21	92.18	2-12	--	3.38	88.80
MW7RR	4/12/21	95.80	2-12	--	7.33	88.47
MW9	4/12/21	96.73	8-18	--	NL	NL
MW10	4/12/21	93.29	2-12	--	NL	NL
MW11	4/12/21	91.62	2-12	--	NL	NL
MW14	4/12/21	93.23	3.05-13.05	--	3.07	90.16
MW15	4/12/21	96.12	2-12	--	3.72	92.40
MW16	4/12/21	97.02	7-17	--	NL	NL
MW17	4/12/21	94.96	3-13	--	NL	NL
MW18	4/12/21	91.34	2-12	--	0.18	91.16
MW19	4/12/21	93.01	2-12	--	4.63	88.38
MW20	4/12/21	98.84	4-14	--	10.11	88.73
DW1 (PW1)	4/12/21	93.47	30-35	--	2.67	90.80
RW1	4/12/21	96.15	2-12	--	4.80	91.35
RW2	4/12/21	93.56	2-12	1.95	2.62	90.94
RW3	4/12/21	93.22	2-12	1.90	3.77	89.45
RW4	4/12/21	96.05	2-15	--	5.73	90.32
RW5	4/12/21	95.60	2-15	6.55	6.65	88.95
RW6	4/12/21	93.07	2-15	1.13	4.11	88.96

**TABLE 2
 POTENTIOMETRIC DATA
 FEBRUARY 5, 2020 SAMPLING EVENT
 SHREE JAKSHANI / PANTRY 911
 HARDEEVILLE, SOUTH CAROLINA
 MECI PROJECT NUMBER 19-7148
 SCDHEC SITE ID NUMBER 10628**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-3R	1/8/2009	2-12	-	3.02	-	94.56	91.54
	7/25/2012		-	2.91	-	94.56	91.65
	6/27/2013		-	3.16	-	94.56	91.40
	7/10/2014		-	3.26	-	94.56	91.30
	10/27/2015		-	3.34	-	94.56	91.22
	9/7/2017*		2.45	2.86	0.41	94.56	92.05
	8/27/2018		2.28	2.32	0.04	94.56	92.27
	2/5/2020		1.75	3.91	2.16	94.56	92.81
MW-4R	1/8/2009	5-15	-	4.29	-	93.75	89.46
	7/25/2012		-	7.61	-	93.75	86.14
	6/27/2013		-	3.99	-	93.75	89.76
	7/10/2014		-	3.40	-	93.75	90.35
	10/27/2015		-	2.80	-	93.75	90.95
	9/7/2017		-	2.59	-	93.75	91.16
	8/27/2018		-	2.18	-	93.75	91.57
	2/5/2020		-	3.30	-	93.75	90.45
MW-5R	1/8/2009	5-15	-	3.00	-	91.70	88.70
	7/25/2012		-	7.35	-	91.70	84.35
MW-5RR	6/27/2013	2-12	-	3.20	-	92.18	88.98
	7/10/2014		-	4.86	-	92.18	87.32
	10/27/2015		-	2.85	-	92.18	89.33
	9/7/2017		-	2.24	-	92.18	89.94
	8/27/2018		-	1.41	-	92.18	90.77
	2/5/2020		-	1.70	-	92.18	90.48
MW-7RR	1/8/2009	2-12	-	6.38	-	95.80	89.42
	7/25/2012*		10.61	10.72	0.11	95.80	85.17
	6/27/2013*		6.32	6.34	0.02	95.80	89.48
	7/10/2014*		8.65	8.78	0.13	95.80	87.13
	10/27/2015		-	9.10	-	95.80	86.70
	9/7/2017*		5.34	5.40	0.06	95.80	90.45
	8/27/2018		4.87	4.88	0.01	95.80	90.93
	2/5/2020		4.98	4.99	0.01	95.80	90.82
MW-9	1/8/2009	8-18	-	6.09	-	96.73	90.64
	7/25/2012		-	NL	-	96.73	NL
	6/27/2013		-	5.05	-	96.73	91.68
	7/10/2014		-	7.53	-	96.73	89.20
	10/27/2015		-	6.13	-	96.73	90.60
	9/7/2017		-	4.85	-	96.73	91.88
	8/27/2018		-	4.50	-	96.73	92.23
	2/5/2020		-	4.52	-	96.73	92.21

TABLE 2
 POTENTIOMETRIC DATA
 FEBRUARY 5, 2020 SAMPLING EVENT
 SHREEJAKSHANI / PANTRY 911
 HARDEEVILLE, SOUTH CAROLINA
 MECI PROJECT NUMBER 19-7148
 SCDHEC SITE ID NUMBER 10628

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-10	1/8/2009	2-12	-	4.36	-	93.29	88.93
	7/25/2012		-	NL	-	93.29	NL
	6/27/2013		-	3.81	-	93.29	89.48
	7/10/2014		-	0.49	-	93.29	86.80
	10/27/2015		-	NL	-	93.29	NL
	9/7/2017		-	2.42	-	93.29	90.87
	8/27/2018		-	1.95	-	93.29	91.34
	2/5/2020		-	NL	-	93.29	NL
MW-11	1/8/2009	2-12	-	1.45	-	91.62	90.17
	7/25/2012		-	3.90	-	91.62	87.72
	6/27/2013		-	0.41	-	91.62	91.21
	7/10/2014		-	3.63	-	91.62	87.99
	10/27/2015		-	1.72	-	91.62	89.90
	9/7/2017		-	NL	-	91.62	NL
	8/27/2018		-	0.59	-	91.62	91.03
	2/5/2020		-	NL	-	91.62	NL
MW-14	1/8/2009	3.05-13.05	-	2.23	-	93.23	91.00
	7/25/2012		-	2.29	-	93.23	90.94
	6/27/2013		-	1.30	-	93.23	91.93
	7/10/2014		-	1.81	-	93.23	91.42
	10/27/2015		-	1.76	-	93.23	91.47
	9/7/2017		-	1.17	-	93.23	92.06
	8/27/2018		-	0.83	-	93.23	92.40
	2/5/2020		-	1.39	-	93.23	91.84
MW-15	1/8/2009	2-12	-	4.50	-	96.12	91.62
	7/25/2012		-	4.80	-	96.12	91.32
	6/27/2013		-	3.52	-	96.12	92.60
	7/10/2014		-	3.97	-	96.12	92.15
	10/27/2015		-	6.93	-	96.12	89.19
	9/7/2017		-	3.01	-	96.12	93.11
	8/27/2018		-	2.51	-	96.12	93.61
	2/5/2020		-	2.79	-	96.12	93.33
MW-16	1/8/2009	7-17	-	8.11	-	97.02	88.91
	7/25/2012		-	12.83	-	97.02	84.19
	6/27/2013		-	8.41	-	97.02	88.61
	7/10/2014		-	10.30	-	97.02	86.72
	10/27/2015		-	5.89	-	97.02	91.13
	9/7/2017		-	5.38	-	97.02	91.64
	8/27/2018		-	7.83	-	97.02	89.19
	2/5/2020		-	6.62	-	97.02	90.40

TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-17	1/8/2009	3-13	-	5.88	-	94.96	89.08
	7/25/2012		-	9.49	-	94.96	85.47
	6/27/2013		-	5.35	-	94.96	89.61
	7/10/2014		-	NL	-	94.96	NL
	10/27/2015		-	NL	-	94.96	NL
	9/7/2017		-	NL	-	94.96	NL
	8/27/2018		-	4.14	-	94.96	90.82
	2/5/2020		-	4.00	-	94.96	90.96
MW-18	1/8/2009	2-12	-	2.48	-	91.34	88.86
	7/25/2012		-	NL	-	91.34	NL
	6/27/2013		-	2.87	-	91.34	88.47
	7/10/2014		-	3.87	-	91.34	87.47
	10/27/2015		-	1.85	-	91.34	89.49
	9/7/2017		-	1.17	-	91.34	90.17
	8/27/2018		-	1.00	-	91.34	90.34
	2/5/2020		-	0.00	-	91.34	91.34
MW-19	6/27/2013	2-12	-	4.14	-	93.01	88.87
	7/10/2014		-	6.69	-	93.01	86.32
	10/27/2015		-	4.20	-	93.01	88.81
	9/7/2017		-	4.12	-	93.01	88.89
	8/27/2018		-	2.49	-	93.01	90.52
	2/5/2020		-	2.65	-	93.01	90.36
	6/27/2013		4-14	-	9.14	-	98.84
7/10/2014	-	11.17		-	98.84	87.67	
10/27/2015	-	8.55		-	98.84	90.29	
9/7/2017	-	5.90		-	98.84	92.94	
8/27/2018	-	7.98		-	98.84	90.86	
2/5/2020	-	8.22		-	98.84	90.62	
PW-1R	1/8/2009	30-35		-	4.57	-	93.47
	7/25/2012		-	9.59	-	93.47	83.88
	6/27/2013		-	4.80	-	93.47	86.67
	7/10/2014		-	6.29	-	93.47	87.18
	10/27/2015		-	4.15	-	93.47	89.32
	9/7/2017		-	3.49	-	93.47	89.98
	8/27/2018		-	3.04	-	93.47	90.43
	2/5/2020		-	3.39	-	93.47	90.08

**TABLE 2
 POTENTIOMETRIC DATA
 FEBRUARY 5, 2020 SAMPLING EVENT
 SHREEJAKSHANI / PANTRY 911
 HARDEEVILLE, SOUTH CAROLINA
 MECI PROJECT NUMBER 19-7148
 SCDHEC SITE ID NUMBER 10628**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
RW-1	7/25/2012	2-12	-	10.53	-	96.15	85.62
	6/27/2013		-	6.47	-	96.15	89.68
	7/10/2014*		8.77	8.92	0.15	96.15	87.36
	10/27/2015*		6.20	6.22	0.02	96.15	89.95
	9/7/2017*		5.42	5.44	0.02	96.15	90.73
	8/27/2018		4.70	4.75	0.05	96.15	91.44
	2/5/2020		5.07	5.11	0.04	96.15	91.08
RW-2	7/25/2012	2-12	-	2.59	-	93.56	90.97
	6/27/2013		-	2.19	-	93.56	91.37
	7/10/2014		-	2.04	-	93.56	91.52
	10/27/2015		-	1.42	-	93.56	92.14
	9/7/2017		-	0.97	-	93.56	92.59
	8/27/2018		-	0.89	-	93.56	92.67
	2/5/2020		-	1.01	-	93.56	92.55
RW-3	7/25/2012*	2-12	2.56	2.61	0.05	93.22	90.65
	6/27/2013*		1.32	1.44	0.12	93.22	91.88
	7/10/2014		-	1.74	-	93.22	91.48
	10/27/2015		-	1.82	-	93.22	91.40
	9/7/2017*		0.58	1.10	0.52	93.22	92.56
	8/27/2018		1.01	1.51	0.50	93.22	92.14
	2/5/2020		1.43	3.74	2.31	93.22	91.79
RW-4	10/27/2015	2-15	-	6.30	-	96.05	89.75
	9/7/2017		-	5.51	-	96.05	90.54
	8/27/2018		-	5.12	-	96.05	90.93
	2/5/2020		-	5.28	-	96.05	90.77
RW-5	10/27/2015	2-15	-	5.95	-	95.60	89.65
	9/7/2017		-	5.13	-	95.60	90.47
	8/27/2018		4.81	4.83	0.02	95.60	90.79
	2/5/2020		4.99	5.24	0.25	95.60	90.61
RW-6	10/27/2015*	2-15	2.20	2.35	0.15	93.07	90.85
	9/7/2017*		0.65	4.90	4.25	93.07	91.78
	8/27/2018		1.79	5.29	3.50	93.07	90.76
	2/5/2020		0.75	9.89	9.14	93.07	90.95

Notes:

1. Elevations are referenced to an assumed site datum
2. Groundwater depths were measured from the top of the PVC riser pipe
3. Groundwater levels measured 2/5/2020
4. NL = Not Located.
5. * = Groundwater elevation corrected for the presence of free phase petroleum product using a specific gravity for fuel of 0.85

2.1 Groundwater Sampling

Samples were collected from monitoring wells installed during this and prior rounds of assessment. Prior to sampling each well, depths to groundwater were measured utilizing an oil/water interface probe. These measurements were used to construct a piezometric map which is located in Appendix A, as Figure 3. Groundwater was evacuated from each well utilizing a battery operated Monsoon purge pump. As directed by SCDHEC all wells were purged three volumes prior to sampling that did not effectively screen the aquifer. Sampling of wells located at the site was completed by utilizing a disposable bailer attached to a new non colored nylon line. Groundwater samples collected were placed into laboratory supplied containers and stored on ice for same day transport for analysis. Katawba personnel submitted all groundwater samples to Pace Analytical, LLC., 106 Vantage Point Drive, Cayce, SC 29033 to the attention of laboratory director Dan Wright who can be contacted at 803-791-9700. The results for the groundwater sampling analysis are as follows.

TABLE 2 Groundwater Analytical Data Okatie Mart ID 10628

Sample ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
RBSL	-	5 ug/l	1,000 ug/l	700 ug/l	10,000 ug/l	25 ug/l	40 ug/l	0.05 ug/l	15 ug/l	ug/l	ug/l
MW3R	4/12/21	FP	FP	FP	0.38 FT	FP	FP	FP	FP	FP	FP
MW4R	4/12/21	4200	5600	710	3800	100	83	0.020	NA	NA	<50
MW5RR	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW7RR	4/12/21	7400	30000	4100	22000	1400	<500	0.22 P	NA	NA	<500
MW9	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW11	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW14	4/12/21	1100	3000	1300	26000	4400	<200	0.17	NA	NA	<200
MW15	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
MW16	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW17	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW18	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW19	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
MW20	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
DUP	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
DW1 (PW1)	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
RW1	4/12/21	8400	2800	440	5500	1300	<100	<0.020	NA	NA	<100
RW2	4/12/21	FP	FP	FP	0.67 FT	FP	FP	FP	FP	FP	FP
RW3	4/12/21	FP	FP	FP	1.87 FT	FP	FP	FP	FP	FP	FP
RW4	4/12/21	17000	19000	1600	8400	800	<100	0.11	NA	NA	680
RW5	4/12/21	FP	FP	FP	0.10 FT	FP	FP	FP	FP	FP	FP
RW6	4/12/21	FP	FP	FP	2.98 FT	FP	FP	FP	FP	FP	FP

Sample ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
POND1	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND2	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
DWW1	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
DUP	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
FB	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
FB2	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
TB	4/12/21	<1	<1	<1	<1	<1	<1	NA	NA	NA	<1

TABLE 2 Groundwater Analytical Data Okatie Mart 10628

Well ID	DATE	Isopropyl Ether (IPE) µg/L	Ethanol µg/L	3-3 Dimethyl-1 butanol µg/L	Ethyl tert-Butyl Ether µg/L (ETBE)	t- Amyl Alcohol µg/L (TAA)	Tert-Amyl Methyl Ether µg/L (TAME)	Tertiary Butyl Alcohol µg/L (TBA)	t-Butyl Formate µg/L (TBF)
RBSL		NA	NA	NA	NA	NA	NA	NA	NA
MW3R	4/12/21	FP	FP	FP	0.38 FT	FP	FP	FP	FP
MW4R	4/12/21	<50	<5000	<1000	<50	8700	<500	3500	<250
MW5RR	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
MW7RR	4/12/21	4700	<50000	<10000	<500	21000	<5000	<10000	<2500
MW9	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW10	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW11	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW14	4/12/21	<200	<20000	<4000	<200	<4000	<2000	730 J	<1000
MW15	4/12/21	<1	<100	<20	<1	<20	<10	14 J	<5
MW16	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW17	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW18	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
MW19	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
MW20	4/12/21	9.7	<100	<20	<1	14 J	<10	1.6 J	<5
DUP	4/12/21	7.1	<100	<20	<1	<20	<10	0.97 J	<5
DW1 (PW1)	4/12/21	<1	<100	<20	<1	<20	<10	1.1 J	<5
RW1	4/12/21	2600	<10000	<2000	<100	5600	<1000	140 J	<500
RW2	4/12/21	FP	FP	FP	0.67 FT	FP	FP	FP	FP
RW3	4/12/21	FP	FP	FP	1.87 FT	FP	FP	FP	FP

TABLE 2 Groundwater Analytical Data Okatie Mart 10628

Well ID	DATE	Isopropyl Ether (IPE) $\mu\text{g/L}$	Ethanol $\mu\text{g/L}$	3-3 Dimethyl-1 butanol $\mu\text{g/L}$	Ethyl tert-Butyl Ether $\mu\text{g/L}$ (ETBE)	t- Amyl Alcohol $\mu\text{g/L}$ (TAA)	Tert-Amyl Methyl Ether $\mu\text{g/L}$ (TAME)	Tertiary Butyl Alcohol $\mu\text{g/L}$ (TBA)	t-Butyl Formate $\mu\text{g/L}$ (TBF)
RBSL		NA	NA	NA	NA	NA	NA	NA	NA
RW4	4/12/21	4500	<10000	<2000	<100	22000	<1000	1100 J	<500
RW5	4/12/21	FP	FP	FP	0.10 FT	FP	FP	FP	FP
RW6	4/12/21	FP	FP	FP	2.98 FT	FP	FP	FP	FP
POND1	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
POND2	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
DWW1	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
FB	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
FB 2	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
TB	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5

TABLE 3
GROUNDWATER COC CONCENTRATION DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEKASHANI PARTNY #11
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-1148
SCDHEC ID NUMBER 19229

Well Number	Sample Date	Benzoene	Toluene	Ethylbenzene	Total Xylene	Total BTEX	Napthalene	BTC	1,2-DCA	COB	Total Lead	TAA	TAP	UV	OPC	ETBA	EWB	ETB	PA	
		(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	
RW-3	10/20/12	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	
	6/2/2013	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	
	7/10/2014	18.80	38.90	3.80	22.60	84.1	1.80	36.1	<0.07	NT	7.90	11.1	<0.00	<0.00	<0.00	<0.00	<0.00	11.80	11.80	
	10/21/2015	12.40	10.20	1.4	1.88	14.84	<0.0	1.48	<0.0	NT	<10.20	8.61	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
	8/7/2017	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
RW-4	8/27/2018	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	2/10/20	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	10/27/2016	18.00	18.30	1.68	8.50	47.80	1.38	<1.20	47.1	1.1	NT	61.30	<2.00	<12.50	1.28	<0.20	<0.00	<0.00	<0.00	<0.00
	8/7/2017	19.20	19.00	1.38	8.70	49.70	1.88	<0.5	48.1	0.77	NT	32.80	<2.00	<0.250	4.64	<12.80	<0.00	<1.250	<12.00	<0.00
	8/27/2018	7.60	8.60	1.11	6.98	18.91	1.98	<2.0	1.9	0.29	NT	8.98	<0.0	<1.50	1.94	<8.00	<10.00	<0.00	<0.00	<0.00
RW-5	2/10/20	10.30	11.30	1.11	4.88	26.71	1.71	<0.0	<0.0	<0.0	<10.00	<1.00	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0	<0.0
	10/27/2015	16.20	16.30	1.83	7.40	41.40	1.61	<1.00	67.7	0.94	NT	61.40	<2.00	<10.300	0.34	<0.00	<0.00	<0.00	<0.00	<0.00
	8/7/2017	21.70	23.70	1.70	8.88	56.08	1.28	<1.00	61.1	0.43	NT	36.80	<2.00	<15.300	6.14	<0.00	<0.00	<0.00	<0.00	<0.00
	8/27/2018	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	2/10/20	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
RW-6	10/27/2015	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	8/7/2017	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	8/27/2018	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	2/10/20	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
	10/27/2015	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD	PROCD
WSW-1	1/9/2020	<0.5	<0.5	<0.5	<10.0	NDL	<0.5	<0.5	<0.5	<0.019	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	7/20/2012	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.018	NT	<100	<10	<100	<10	<100	<1.000	<100	<100	<100
	6/2/2013	<1.0	<1.0	<1.0	<1.0	NDL	<1.0	<1.0	<1.0	<0.020	NT	<100	<10	<100	<10	<100	<1.000	<100	<100	<100
	7/18/2014	<1.0	<1.0	<1.0	<1.0	NDL	<1.0	<1.0	<1.0	<0.020	NT	<100	<10	<100	<10	<100	<1.000	<100	<100	<100
	10/27/2015	<1.0	<1.0	<1.0	<0.5	NDL	<1.0	<1.0	<1.0	<0.020	NT	<100	<10.0	<0.0	<1.0	<100	<0.00	<10.0	<10.0	<10.0
RW-1 Dup	7/20/2012	1.90	3.90	1.80	7.80	13.50	2.0	0.90	<1.00	0.28	2.60	11.1	<0.00	<2.0	<3.00	<10.00	<0.00	8.1	3.60	
	7/20/2013	30.80	1.80	2.70	12.00	74.70	3.0	0.1	1.60	0.86	NT	54.80	<1.00	12.00	<10.00	<10.00	<10.00	34.1	4.70	
	8/27/2018	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	10/27/2015	13.20	13.80	1.90	8.90	47.70	1.1	<1.00	71.1	0.44	NT	63.60	<1.00	12.70	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
	8/7/2017	31.2	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
RW-2 Dup	7/20/2012	31.2	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/27/2018	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	10/27/2015	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/7/2017	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	2/10/20	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
WSW DUFWSM-1	8/27/2018	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	10/27/2015	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/7/2017	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	2/10/20	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/27/2018	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
WSW DUFWSM-2	8/27/2018	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	10/27/2015	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/7/2017	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	2/10/20	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/27/2018	<0.5	<0.5	<0.5	<0.5	7.4	5.3	5.4	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
Field Blank	7/20/2012	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	6/2/2013	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	7/20/2014	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	10/27/2015	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/7/2017	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
WSW	8/7/2017	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/27/2018	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	10/27/2015	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	2/10/20	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100	<0.00	<10.0	<10.0	<10.0
	8/27/2018	<0.5	<0.5	<0.5	<0.5	NDL	<0.5	<0.5	<0.5	<0.020	NT	<100	<10.0	<0.0	<0.0	<100				

2.2 RECEPTOR SURVEY

Seven receptors were noted during previous assessments. Natural gas lines, water lines, power lines, fiber optic lines, two surface water ponds, a drinking water well and a marsh / wetland were located within 1000 feet of the subject site. Location of offsite receptors are depicted on Figure 1A Receptor Location Map.

Table 3 Receptor Data Okatie Mart Site ID 10628

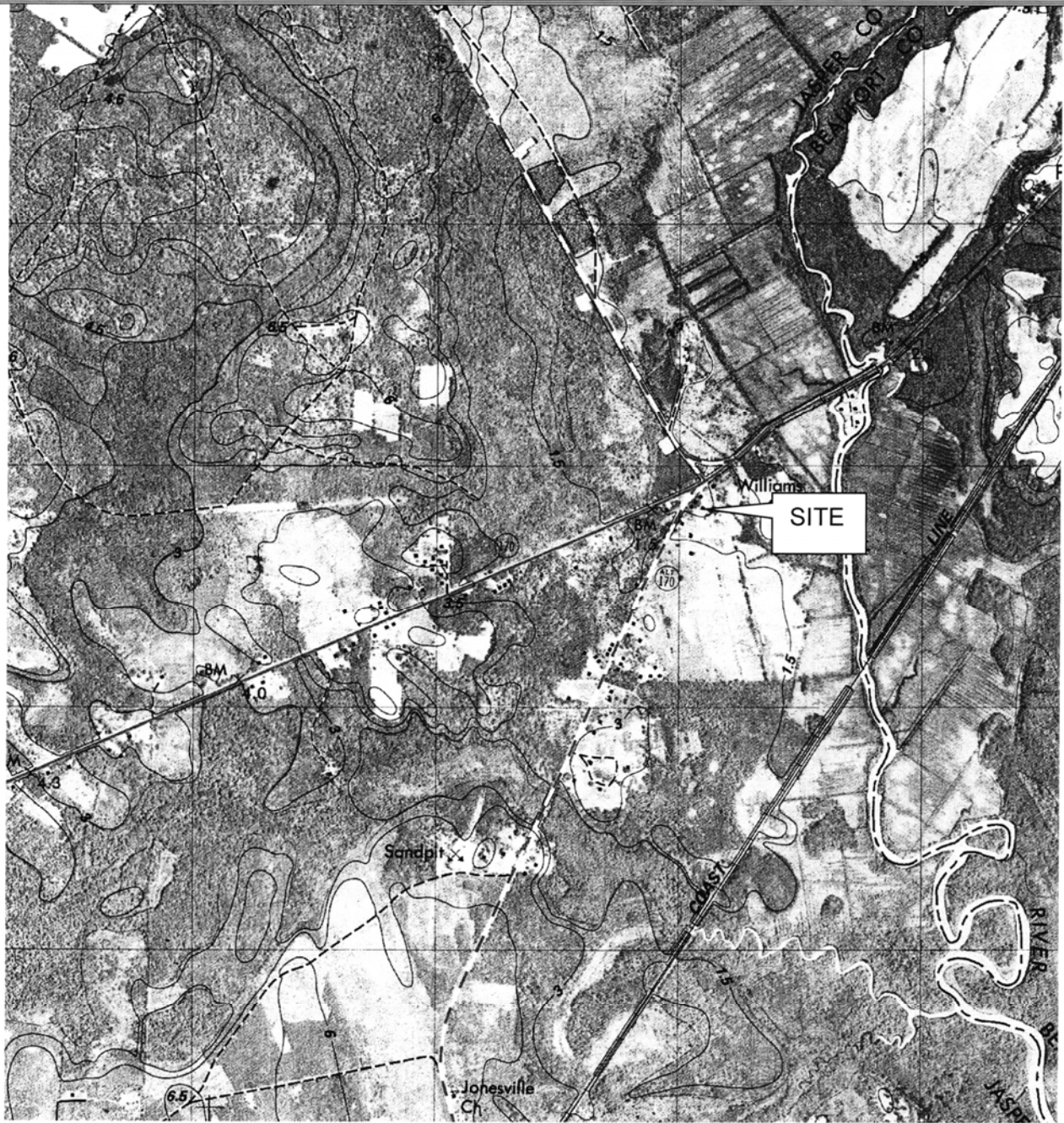
Receptor	Depth	Location	Assessed
Water Line	36 inches	Site W Row	No
Natural Gas Line	36 inches	Site S Row	No
Fiber Optic Line	36 inches	Site S Row	No
Power Line	36 inches	Site	No
DWW1	UNK	216 FT E	Yes
Pond 1	Surface	505 FT SSW	Yes
Pond 2	Surface	784 FT NNW	Yes
Marsh	Surface	Onsite	No

3.0 CONCLUSIONS

The following conclusions are based on the findings of this sampling SOW.

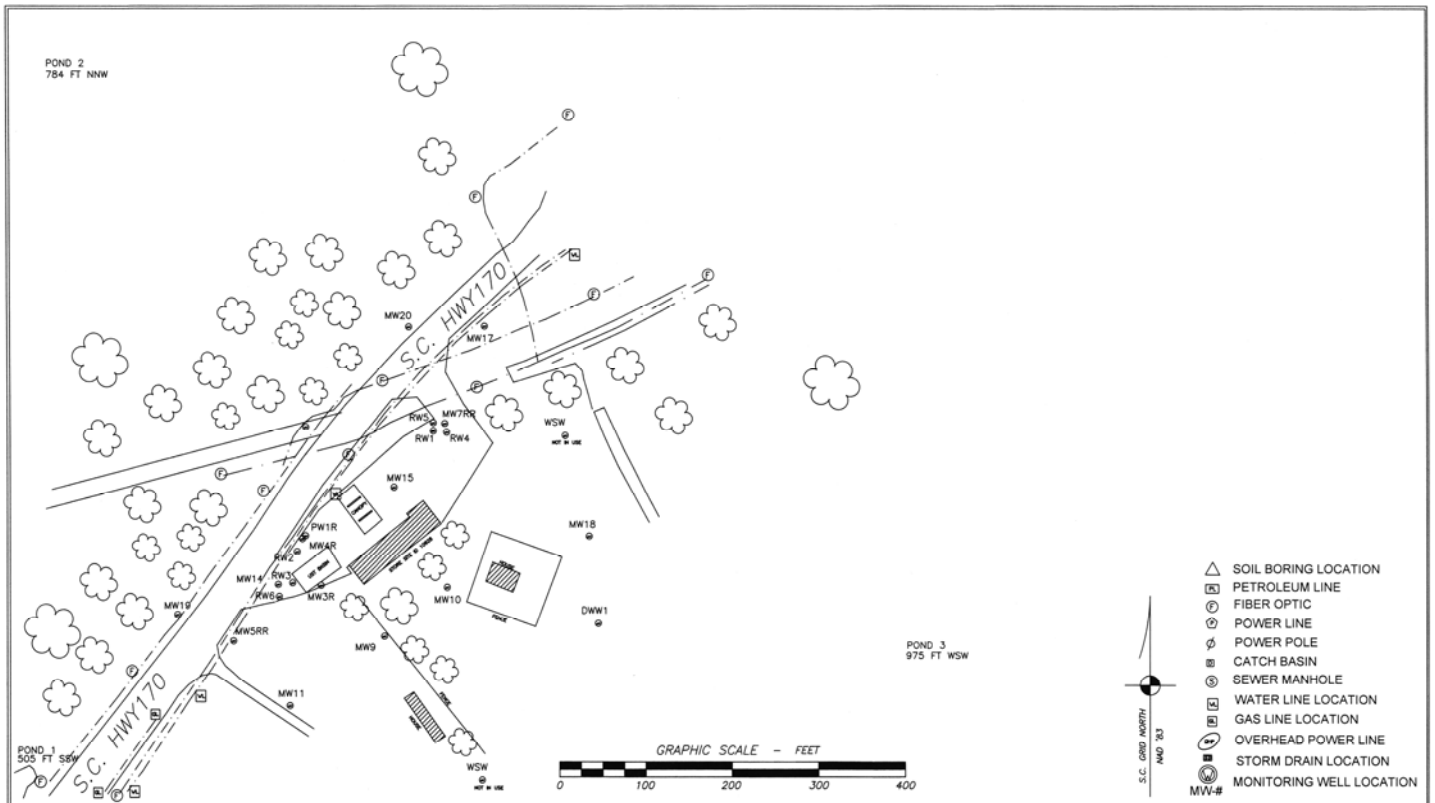
- Monitoring wells MW4R, MW7R, MW14, RW1 and RW4 were above the established RBSL for petroleum based constituents.
- 0.38 FT free product was associated with MW3R.
- 0.67 FT free product was associated with RW2.
- 1.87 FT free product was associated with RW3.
- 0.10 FT free product was associated with RW5.
- 2.98 FT free product was associated with RW6.
- Monitoring wells MW9, MW10, MW11, MW16 and MW17 could not be located and were therefore not sampled for this scope of work.
- Suspected petroleum hydrocarbon soil staining appeared to be present in the marsh / wetland area at the time of the assessment.
- It is recommended that 4 AFVR events be conducted as the next SOW alternating between the dual free product plumes onsite.

APPENDIX A
FIGURES



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

SAMPLING REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP

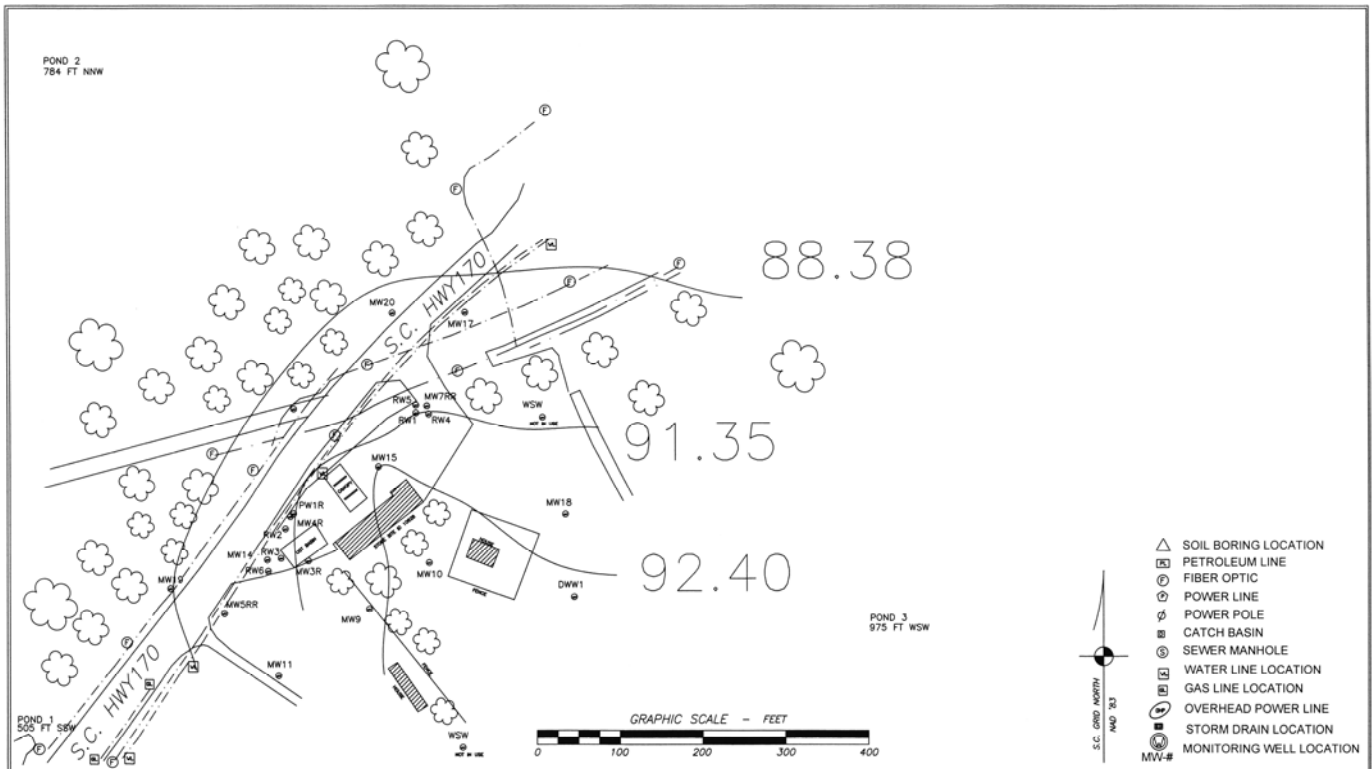


KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2

SITE MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 3
 PIEZOMETRIC MAP

POND 2
784 FT NNW

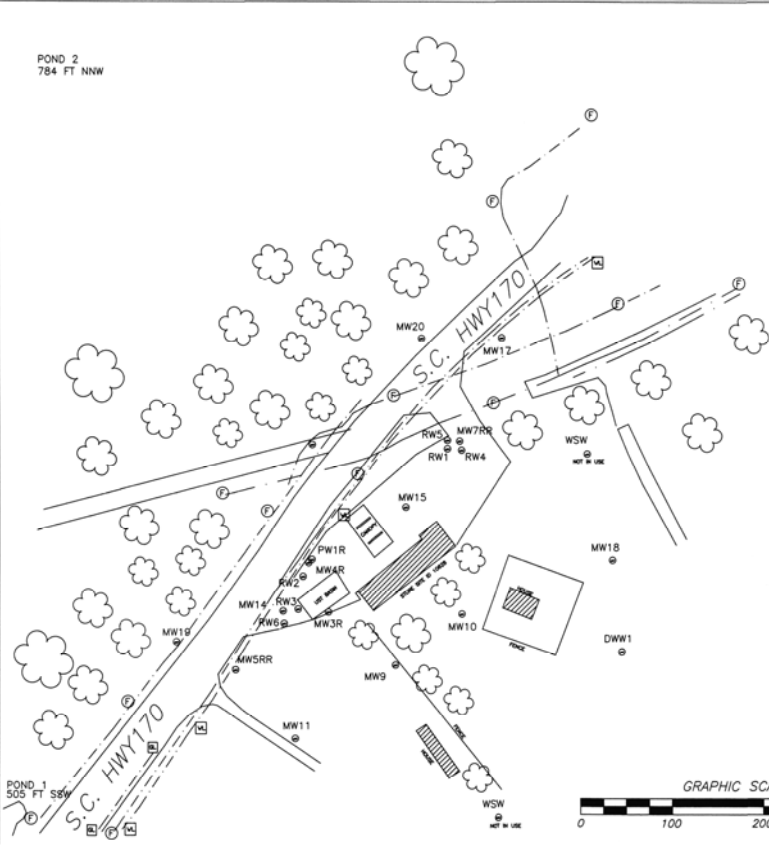
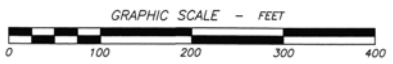


TABLE 2 Groundwater Analytical Data Okatie Mart ID 10628

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
RBSL	-	5 ug/l	1,000 ug/l	700 ug/l	10,000 ug/l	25 ug/l	40 ug/l	0.05 ug/l	15 ug/l	ug/l	ug/l
MW3R	4/12/21	FP	FP	FP	0.38 FT	FP	FP	FP	FP	FP	FP
MW4R	4/12/21	4200	5600	710	3800	100	83	0.020	NA	NA	<50
MWSRR	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW7RR	4/12/21	7400	30000	4100	22000	1400	<500	0.22 P	NA	NA	<500
MW9	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW11	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW14	4/12/21	1100	3000	1300	26000	4400	<200	0.17	NA	NA	<200
MW15	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
MW16	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW17	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW18	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW19	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
MW20	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
DUP	4/12/21	<1	<1	<1	<1	<1	<1	<0.019	NA	NA	<1
DW1 (PW1)	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
RW1	4/12/21	8400	2800	440	5500	1300	<100	<0.020	NA	NA	<100
RW2	4/12/21	FP	FP	FP	0.67 FT	FP	FP	FP	FP	FP	FP
RW3	4/12/21	FP	FP	FP	1.87 FT	FP	FP	FP	FP	FP	FP
RW4	4/12/21	17000	19000	1600	8400	800	<100	0.11	NA	NA	680
RW5	4/12/21	FP	FP	FP	0.10 FT	FP	FP	FP	FP	FP	FP
RW6	4/12/21	FP	FP	FP	2.98 FT	FP	FP	FP	FP	FP	FP
POND1	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND2	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
DW11	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
DUP	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
FB	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
FB2	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
TB	4/12/21	<1	<1	<1	<1	<1	<1	<1	NA	NA	<1

POND 3
975 FT WSW

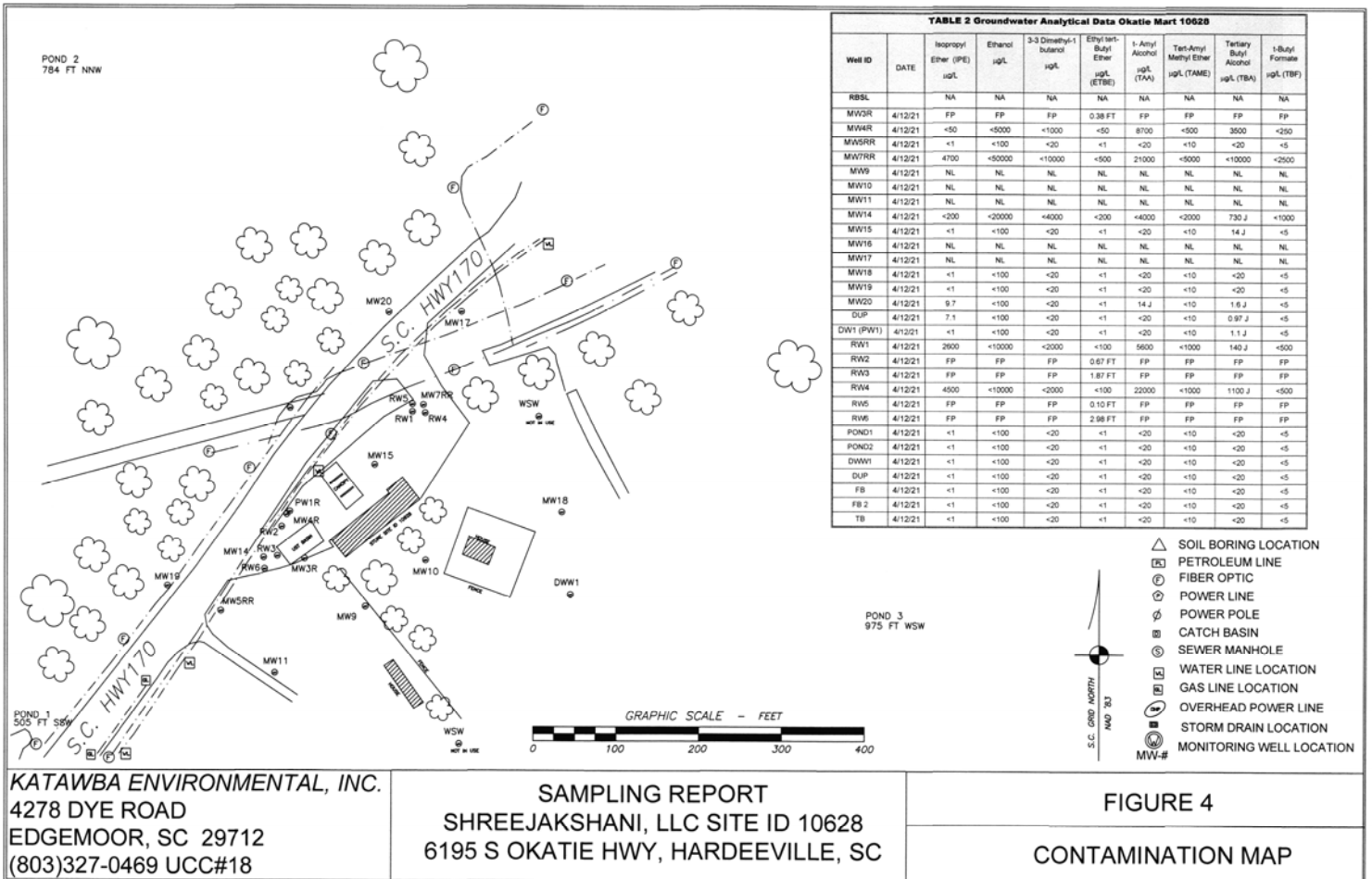


- △ SOIL BORING LOCATION
- ▭ PETROLEUM LINE
- ⊕ FIBER OPTIC
- ⊖ POWER LINE
- ⊙ POWER POLE
- ⊗ CATCH BASIN
- ⊙ SEWER MANHOLE
- ▭ WATER LINE LOCATION
- ▭ GAS LINE LOCATION
- ⊕ OVERHEAD POWER LINE
- ⊖ STORM DRAIN LOCATION
- ⊙ MW-# MONITORING WELL LOCATION

KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR, SC 29712
(803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 4
CONTAMINATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 4
 CONTAMINATION MAP

APPENDIX B
ANALYTICAL DATA



Report of Analysis

Katawba Environmental, Inc.
4278 Dye Rd.
Edgemore, SC 29712
Attention: Alex Amos

Project Name: OKatie Mart

Lot Number: **WD14051**

Date Completed: 04/26/2021

04/27/2021 8:31 AM
Approved and released by:
Project Manager II: **Lucas Odom**



The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Katawba Environmental, Inc. Lot Number: WD14051

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Receipt

Sample -019 we received but was not listed on the COC. Per client request, the sample has been logged in and analyzed based on the sample containers.

EDB by Microextraction

Samples -001, -003, and -011 have been qualified with a "P" as the relative percent difference between the two GC columns exceeds method criteria. Per SCDHEC, the lesser of the two values has been reported.

The MS associated with batch 89100 recovered EDB outside of method criteria due to suspected matrix interferences. Associated samples has been qualified with a "S".

PACE ANALYTICAL SERVICES, LLC

Sample Summary Katawba Environmental, Inc. Lot Number: WD14051

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	10628 MW4	Aqueous	04/12/2021 1129	04/14/2021
002	10628 MW5	Aqueous	04/12/2021 1239	04/14/2021
003	10628 MW7	Aqueous	04/12/2021 1417	04/14/2021
004	10628 MW15	Aqueous	04/12/2021 1343	04/14/2021
005	10628 MW18	Aqueous	04/12/2021 1058	04/14/2021
006	10628 MW19	Aqueous	04/12/2021 1153	04/14/2021
007	10628 MW20	Aqueous	04/12/2021 1312	04/14/2021
008	10628 MW20 DUP	Aqueous	04/12/2021 1314	04/14/2021
009	10628 DW1	Aqueous	04/12/2021 1029	04/14/2021
010	10628 RW1	Aqueous	04/12/2021 1531	04/14/2021
011	10628 RW4	Aqueous	04/12/2021 1557	04/14/2021
012	10628 POND1	Aqueous	04/12/2021 1439	04/14/2021
013	10628 POND2	Aqueous	04/12/2021 1452	04/14/2021
014	10628 DWW1	Aqueous	04/12/2021 1102	04/14/2021
015	10628 DWW1 DUP	Aqueous	04/12/2021 1104	04/14/2021
016	10628 FB	Aqueous	04/12/2021 1600	04/14/2021
017	10628 FB2	Aqueous	04/12/2021 1113	04/14/2021
018	10628 TB	Aqueous	04/12/2021 1612	04/14/2021
019	10628 MW14	Aqueous	04/12/2021	04/14/2021

(19 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary Katawba Environmental, Inc. Lot Number: WD14051

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	10628 MW4	Aqueous	tert-Amyl alcohol (TAA)	8260D	8700		ug/L	6
001	10628 MW4	Aqueous	Benzene	8260D	4200		ug/L	6
001	10628 MW4	Aqueous	Ethylbenzene	8260D	710		ug/L	6
001	10628 MW4	Aqueous	Methyl tertiary butyl ether	8260D	83		ug/L	6
001	10628 MW4	Aqueous	Naphthalene	8260D	100		ug/L	6
001	10628 MW4	Aqueous	tert-butyl alcohol (TBA)	8260D	3500		ug/L	6
001	10628 MW4	Aqueous	Toluene	8260D	5600		ug/L	6
001	10628 MW4	Aqueous	Xylenes (total)	8260D	3800		ug/L	6
001	10628 MW4	Aqueous	1,2-Dibromoethane (EDB)	8011	0.020	PS	ug/L	6
003	10628 MW7	Aqueous	tert-Amyl alcohol (TAA)	8260D	21000		ug/L	8
003	10628 MW7	Aqueous	Benzene	8260D	7400		ug/L	8
003	10628 MW7	Aqueous	Diisopropyl ether (IPE)	8260D	4700		ug/L	8
003	10628 MW7	Aqueous	Ethylbenzene	8260D	4100		ug/L	8
003	10628 MW7	Aqueous	Naphthalene	8260D	1400		ug/L	8
003	10628 MW7	Aqueous	Toluene	8260D	30000		ug/L	8
003	10628 MW7	Aqueous	Xylenes (total)	8260D	22000		ug/L	8
003	10628 MW7	Aqueous	1,2-Dibromoethane (EDB)	8011	0.22	P	ug/L	8
004	10628 MW15	Aqueous	tert-butyl alcohol (TBA)	8260D	14	J	ug/L	9
007	10628 MW20	Aqueous	tert-Amyl alcohol (TAA)	8260D	14	J	ug/L	12
007	10628 MW20	Aqueous	Diisopropyl ether (IPE)	8260D	9.7		ug/L	12
007	10628 MW20	Aqueous	tert-butyl alcohol (TBA)	8260D	1.6	J	ug/L	12
008	10628 MW20 DUP	Aqueous	Diisopropyl ether (IPE)	8260D	7.1		ug/L	13
008	10628 MW20 DUP	Aqueous	tert-butyl alcohol (TBA)	8260D	0.97	J	ug/L	13
009	10628 DW1	Aqueous	tert-butyl alcohol (TBA)	8260D	1.1	J	ug/L	14
010	10628 RW1	Aqueous	tert-Amyl alcohol (TAA)	8260D	5600		ug/L	15
010	10628 RW1	Aqueous	Benzene	8260D	8400		ug/L	15
010	10628 RW1	Aqueous	Diisopropyl ether (IPE)	8260D	2600		ug/L	15
010	10628 RW1	Aqueous	Ethylbenzene	8260D	440		ug/L	15
010	10628 RW1	Aqueous	Naphthalene	8260D	1300		ug/L	15
010	10628 RW1	Aqueous	tert-butyl alcohol (TBA)	8260D	140	J	ug/L	15
010	10628 RW1	Aqueous	Toluene	8260D	2800		ug/L	15
010	10628 RW1	Aqueous	Xylenes (total)	8260D	5500		ug/L	15
011	10628 RW4	Aqueous	tert-Amyl alcohol (TAA)	8260D	22000		ug/L	16
011	10628 RW4	Aqueous	Benzene	8260D	17000		ug/L	16
011	10628 RW4	Aqueous	1,2-Dichloroethane	8260D	680		ug/L	16
011	10628 RW4	Aqueous	Diisopropyl ether (IPE)	8260D	4500		ug/L	16
011	10628 RW4	Aqueous	Ethylbenzene	8260D	1600		ug/L	16
011	10628 RW4	Aqueous	Naphthalene	8260D	800		ug/L	16
011	10628 RW4	Aqueous	tert-butyl alcohol (TBA)	8260D	1100	J	ug/L	16
011	10628 RW4	Aqueous	Toluene	8260D	19000		ug/L	16
011	10628 RW4	Aqueous	Xylenes (total)	8260D	8400		ug/L	16
011	10628 RW4	Aqueous	1,2-Dibromoethane (EDB)	8011	0.11	P	ug/L	16
019	10628 MW14	Aqueous	Benzene	8260D	1100		ug/L	27
019	10628 MW14	Aqueous	Ethylbenzene	8260D	1300		ug/L	27
019	10628 MW14	Aqueous	Naphthalene	8260D	4400		ug/L	27

Detection Summary (Continued)

Lot Number: WD14051

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
019	10628 MW14	Aqueous	tert-butyl alcohol (TBA)	8260D	730	J	ug/L	27
019	10628 MW14	Aqueous	Toluene	8260D	3000		ug/L	27
019	10628 MW14	Aqueous	Xylenes (total)	8260D	26000		ug/L	27
019	10628 MW14	Aqueous	1,2-Dibromoethane (EDB)	8011	0.17		ug/L	27

(49 detections)

Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-001**Description: **10628 MW4**Matrix: **Aqueous**Date Sampled: **04/12/2021 1129**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	50	04/19/2021 0037	CJL2		89430

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	8700		1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		500	21	ug/L	1
Benzene	71-43-2	8260D	4200		50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		1000	400	ug/L	1
Ethanol	64-17-5	8260D	ND		5000	2600	ug/L	1
Ethylbenzene	100-41-4	8260D	710		50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	83		50	20	ug/L	1
Naphthalene	91-20-3	8260D	100		50	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	3500		1000	20	ug/L	1
Toluene	108-88-3	8260D	5600		50	20	ug/L	1
Xylenes (total)	1330-20-7	8260D	3800		50	20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1116	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.020	PS	0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/18/2021 1946	CJL2		89430

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1137	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,1,1,2-Tetrachloroethane		112	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D	500	04/21/2021 0605	CJL2		89670

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	21000		10000	4000	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		5000	210	ug/L	2
Benzene	71-43-2	8260D	7400		500	200	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		2500	1000	ug/L	2
1,2-Dichloroethane	107-06-2	8260D	ND		500	200	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260D	4700		500	200	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		10000	4000	ug/L	2
Ethanol	64-17-5	8260D	ND		50000	26000	ug/L	2
Ethylbenzene	100-41-4	8260D	4100		500	200	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		500	200	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		500	200	ug/L	2
Naphthalene	91-20-3	8260D	1400		500	200	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		10000	200	ug/L	2
Toluene	108-88-3	8260D	30000		500	200	ug/L	2
Xylenes (total)	1330-20-7	8260D	22000		500	200	ug/L	2

Surrogate	Run 2		Acceptance Limits
	Q	% Recovery	
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		106	70-130
Bromofluorobenzene		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	5	04/21/2021 1523	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.22	P	0.098	0.024	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,1,1,2-Tetrachloroethane		123	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/18/2021 2010	CJL2		89430

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	14	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1210	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		103	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-005**Description: **10628 MW18**Matrix: **Aqueous**Date Sampled: **04/12/2021 1058**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	04/18/2021 2034	CJL2		89430		
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene		71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol		64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene		100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene		91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene		108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)		1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		110	70-130
Bromofluorobenzene		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	04/21/2021 1220	JPB	04/15/2021 0920	89100		
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND		0.020	0.0050	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		110	57-137						

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-006**Description: **10628 MW19**Matrix: **Aqueous**Date Sampled: **04/12/2021 1153**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/18/2021 2059	CJL2		89430

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1231	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/19/2021 1424	JDF		89529

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	14	J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	9.7		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	1.6	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1242	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-008**Description: **10628 MW20 DUP**Matrix: **Aqueous**Date Sampled: **04/12/2021 1314**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/19/2021 1448	JDF		89529

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	7.1		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	0.97	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		108	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1253	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-009**Description: **10628 DW1**Matrix: **Aqueous**Date Sampled: **04/12/2021 1029**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	04/19/2021 1512	JDF		89529		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1	
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	1.1	J	20	0.40	ug/L	1	
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		106	70-130						
Toluene-d8		106	70-130						
Bromofluorobenzene		105	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	04/21/2021 1304	JPB	04/15/2021 0920	89100		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		115	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-010**Description: **10628 RW1**Matrix: **Aqueous**Date Sampled: **04/12/2021 1531**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	100	04/19/2021 1737	JDF		89529

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	5600		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		1000	42	ug/L	1
Benzene	71-43-2	8260D	8400		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	2600		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1
Ethylbenzene	100-41-4	8260D	440		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		100	40	ug/L	1
Naphthalene	91-20-3	8260D	1300		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	140	J	2000	40	ug/L	1
Toluene	108-88-3	8260D	2800		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260D	5500		100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1314	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		111	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-011**Description: **10628 RW4**Matrix: **Aqueous**Date Sampled: **04/12/2021 1557**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	100	04/19/2021 1801	JDF		89529		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	22000		2000	800	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		1000	42	ug/L	1	
Benzene	71-43-2	8260D	17000		100	40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	680		100	40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	4500		100	40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1	
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1	
Ethylbenzene	100-41-4	8260D	1600		100	40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		100	40	ug/L	1	
Naphthalene	91-20-3	8260D	800		100	40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	1100	J	2000	40	ug/L	1	
Toluene	108-88-3	8260D	19000		100	40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	8400		100	40	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	04/21/2021 1325	JPB	04/15/2021 0920	89100		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.11	P	0.020	0.0049	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		107	57-137						

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-012**Description: **10628 POND1**Matrix: **Aqueous**Date Sampled: **04/12/2021 1439**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/19/2021 1537	JDF		89529

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		106	70-130
Bromofluorobenzene		105	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1336	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-013**Description: **10628 POND2**Matrix: **Aqueous**Date Sampled: **04/12/2021 1452**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/19/2021 1601	JDF		89529

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1347	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		119	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-014**Description: **10628 DWW1**Matrix: **Aqueous**Date Sampled: **04/12/2021 1102**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	04/24/2021 1655	BWS		90129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichlorobenzene-d4		97	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/15/2021 2332	DJG		89229

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		104	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	04/21/2021 1840	JPB	04/21/2021 0920	89701

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0041	ug/L	1

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WD14051-014**

Description: **10628 DWW1**

Matrix: **Aqueous**

Date Sampled: **04/12/2021 1102**

Date Received: **04/14/2021**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		103	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	04/24/2021 1720	BWS		90129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	70-130
1,2-Dichlorobenzene-d4		97	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/15/2021 2355	DJG		89229

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Toluene-d8		110	70-130
Bromofluorobenzene		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	04/21/2021 1904	JPB	04/21/2021 0920	89701

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Client: **Katawba Environmental, Inc.**

Laboratory ID: **WD14051-015**

Description: **10628 DWW1 DUP**

Matrix: **Aqueous**

Date Sampled: **04/12/2021 1104**

Date Received: **04/14/2021**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		105	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-016**Description: **10628 FB**Matrix: **Aqueous**Date Sampled: **04/12/2021 1600**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	524.2	524.2	1	04/24/2021 1515	BWS		90129		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1	
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1	
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1	
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1	
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1	
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
Bromofluorobenzene		97	70-130						
1,2-Dichlorobenzene-d4		94	70-130						

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	04/15/2021 2307	DJG		89229		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		105	70-130						
Toluene-d8		109	70-130						
Bromofluorobenzene		107	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	504.1	504.1	1	04/21/2021 1928	JPB	04/21/2021 0920	89701		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0040	ug/L	1	

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WD14051-016**

Description: **10628 FB**

Matrix: **Aqueous**

Date Sampled: **04/12/2021 1600**

Date Received: **04/14/2021**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-017**Description: **10628 FB2**Matrix: **Aqueous**Date Sampled: **04/12/2021 1113**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/18/2021 1809	CJL2		89430

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		106	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	04/21/2021 1357	JPB	04/15/2021 0920	89100

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and \geq DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	04/24/2021 1540	BWS		90129

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichlorobenzene-d4		95	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/18/2021 1833	CJL2		89430

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		105	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Client: **Katawba Environmental, Inc.**Laboratory ID: **WD14051-019**Description: **10628 MW14**Matrix: **Aqueous**Date Sampled: **04/12/2021**Date Received: **04/14/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	200	04/19/2021 1825	JDF		89529		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		4000	1600	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		2000	84	ug/L	1	
Benzene	71-43-2	8260D	1100		200	80	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		1000	400	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		200	80	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		200	80	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		4000	1600	ug/L	1	
Ethanol	64-17-5	8260D	ND		20000	10000	ug/L	1	
Ethylbenzene	100-41-4	8260D	1300		200	80	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		200	80	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		200	80	ug/L	1	
Naphthalene	91-20-3	8260D	4400		200	80	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	730	J	4000	80	ug/L	1	
Toluene	108-88-3	8260D	3000		200	80	ug/L	1	
Xylenes (total)	1330-20-7	8260D	26000		200	80	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		105	70-130						
Toluene-d8		107	70-130						
Bromofluorobenzene		104	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	04/21/2021 1408	JPB	04/15/2021 0920	89100		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.17		0.020	0.0049	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		123	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ89229-001

Matrix: Aqueous

Batch: 89229

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	04/15/2021 2207
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	04/15/2021 2207
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	04/15/2021 2207
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	04/15/2021 2207
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	04/15/2021 2207
Ethanol	ND		1	100	52	ug/L	04/15/2021 2207
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	04/15/2021 2207
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	04/15/2021 2207

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		110	70-130
Bromofluorobenzene		106	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ89229-002

Matrix: Aqueous

Batch: 89229

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	960		1	96	70-130	04/15/2021 2057
tert-Amyl methyl ether (TAME)	50	43		1	85	70-130	04/15/2021 2057
tert-Butyl formate (TBF)	250	260		1	104	70-130	04/15/2021 2057
Diisopropyl ether (IPE)	50	45		1	90	70-130	04/15/2021 2057
3,3-Dimethyl-1-butanol	1000	1100		1	107	70-130	04/15/2021 2057
Ethanol	5000	5500		1	109	70-130	04/15/2021 2057
Ethyl-tert-butyl ether (ETBE)	50	45		1	89	70-130	04/15/2021 2057
tert-butyl alcohol (TBA)	1000	910		1	91	70-130	04/15/2021 2057

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		97	70-130
Bromofluorobenzene		90	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ89430-001

Matrix: Aqueous

Batch: 89430

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	04/18/2021 1705
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	04/18/2021 1705
Benzene	ND		1	1.0	0.40	ug/L	04/18/2021 1705
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	04/18/2021 1705
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	04/18/2021 1705
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	04/18/2021 1705
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	04/18/2021 1705
Ethanol	ND		1	100	52	ug/L	04/18/2021 1705
Ethylbenzene	ND		1	1.0	0.40	ug/L	04/18/2021 1705
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	04/18/2021 1705
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	04/18/2021 1705
Naphthalene	ND		1	1.0	0.40	ug/L	04/18/2021 1705
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	04/18/2021 1705
Toluene	ND		1	1.0	0.40	ug/L	04/18/2021 1705
Xylenes (total)	ND		1	1.0	0.40	ug/L	04/18/2021 1705

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		104	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ89430-002

Matrix: Aqueous

Batch: 89430

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	70-130	04/18/2021 1618
tert-Amyl methyl ether (TAME)	50	44		1	89	70-130	04/18/2021 1618
Benzene	50	43		1	86	70-130	04/18/2021 1618
tert-Butyl formate (TBF)	250	280		1	113	70-130	04/18/2021 1618
1,2-Dichloroethane	50	47		1	93	70-130	04/18/2021 1618
Diisopropyl ether (IPE)	50	42		1	83	70-130	04/18/2021 1618
3,3-Dimethyl-1-butanol	1000	1100		1	107	70-130	04/18/2021 1618
Ethanol	5000	5200		1	104	70-130	04/18/2021 1618
Ethylbenzene	50	46		1	92	70-130	04/18/2021 1618
Ethyl-tert-butyl ether (ETBE)	50	44		1	88	70-130	04/18/2021 1618
Methyl tertiary butyl ether (MTBE)	50	42		1	84	70-130	04/18/2021 1618
Naphthalene	50	48		1	95	70-130	04/18/2021 1618
tert-butyl alcohol (TBA)	1000	1000		1	101	70-130	04/18/2021 1618
Toluene	50	47		1	93	70-130	04/18/2021 1618
Xylenes (total)	100	93		1	93	70-130	04/18/2021 1618
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		91	70-130				
Toluene-d8		94	70-130				
Bromofluorobenzene		91	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: WD14051-001MS

Matrix: Aqueous

Batch: 89430

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	8700	50000	59000		50	100	70-130	04/19/2021 0102
tert-Amyl methyl ether (TAME)	ND	2500	2500		50	98	70-130	04/19/2021 0102
Benzene	4200	2500	6100		50	75	70-130	04/19/2021 0102
tert-Butyl formate (TBF)	ND	13000	12000		50	99	70-130	04/19/2021 0102
1,2-Dichloroethane	ND	2500	2500		50	98	70-130	04/19/2021 0102
Diisopropyl ether (IPE)	ND	2500	2000		50	81	70-130	04/19/2021 0102
3,3-Dimethyl-1-butanol	ND	50000	52000		50	103	70-130	04/19/2021 0102
Ethanol	ND	250000	260000		50	102	70-130	04/19/2021 0102
Ethylbenzene	710	2500	3100		50	95	70-130	04/19/2021 0102
Ethyl-tert-butyl ether (ETBE)	ND	2500	2400		50	97	70-130	04/19/2021 0102
Methyl tertiary butyl ether (MTBE)	83	2500	2300		50	87	70-130	04/19/2021 0102
Naphthalene	100	2500	2600		50	98	70-130	04/19/2021 0102
tert-butyl alcohol (TBA)	3500	50000	53000		50	99	70-130	04/19/2021 0102
Toluene	5600	2500	8000		50	95	70-130	04/19/2021 0102
Xylenes (total)	3800	5000	8600		50	95	70-130	04/19/2021 0102
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		92	70-130					
Toluene-d8		97	70-130					
Bromofluorobenzene		94	70-130					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: WD14051-001MD

Matrix: Aqueous

Batch: 89430

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	8700	50000	60000		50	103	2.2	70-130	20	04/19/2021 0126
tert-Amyl methyl ether (TAME)	ND	2500	2300		50	92	6.2	70-130	20	04/19/2021 0126
Benzene	4200	2500	6100		50	76	0.30	70-130	20	04/19/2021 0126
tert-Butyl formate (TBF)	ND	13000	12000		50	96	3.2	70-130	20	04/19/2021 0126
1,2-Dichloroethane	ND	2500	2500		50	99	1.0	70-130	20	04/19/2021 0126
Diisopropyl ether (IPE)	ND	2500	2100		50	83	1.8	70-130	20	04/19/2021 0126
3,3-Dimethyl-1-butanol	ND	50000	53000		50	106	2.9	70-130	20	04/19/2021 0126
Ethanol	ND	250000	260000		50	104	2.2	70-130	20	04/19/2021 0126
Ethylbenzene	710	2500	3000		50	93	1.1	70-130	20	04/19/2021 0126
Ethyl-tert-butyl ether (ETBE)	ND	2500	2300		50	92	4.7	70-130	20	04/19/2021 0126
Methyl tertiary butyl ether (MTBE)	83	2500	2100		50	79	8.7	70-130	20	04/19/2021 0126
Naphthalene	100	2500	2700		50	104	5.2	70-130	20	04/19/2021 0126
tert-butyl alcohol (TBA)	3500	50000	52000		50	96	3.0	70-130	20	04/19/2021 0126
Toluene	5600	2500	8000		50	95	0.026	70-130	20	04/19/2021 0126
Xylenes (total)	3800	5000	8500		50	94	0.72	70-130	20	04/19/2021 0126

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		98	70-130
Bromofluorobenzene		92	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ89529-001

Matrix: Aqueous

Batch: 89529

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	04/19/2021 1022
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	04/19/2021 1022
Benzene	ND		1	1.0	0.40	ug/L	04/19/2021 1022
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	04/19/2021 1022
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	04/19/2021 1022
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	04/19/2021 1022
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	04/19/2021 1022
Ethanol	ND		1	100	52	ug/L	04/19/2021 1022
Ethylbenzene	ND		1	1.0	0.40	ug/L	04/19/2021 1022
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	04/19/2021 1022
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	04/19/2021 1022
Naphthalene	ND		1	1.0	0.40	ug/L	04/19/2021 1022
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	04/19/2021 1022
Toluene	ND		1	1.0	0.40	ug/L	04/19/2021 1022
Xylenes (total)	ND		1	1.0	0.40	ug/L	04/19/2021 1022
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		106	70-130				
Toluene-d8		108	70-130				
Bromofluorobenzene		106	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ89529-002

Matrix: Aqueous

Batch: 89529

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	107	70-130	04/19/2021 0934
tert-Amyl methyl ether (TAME)	50	45		1	90	70-130	04/19/2021 0934
Benzene	50	48		1	96	70-130	04/19/2021 0934
tert-Butyl formate (TBF)	250	320		1	127	70-130	04/19/2021 0934
1,2-Dichloroethane	50	52		1	105	70-130	04/19/2021 0934
Diisopropyl ether (IPE)	50	47		1	94	70-130	04/19/2021 0934
3,3-Dimethyl-1-butanol	1000	1100		1	108	70-130	04/19/2021 0934
Ethanol	5000	5600		1	112	70-130	04/19/2021 0934
Ethylbenzene	50	50		1	99	70-130	04/19/2021 0934
Ethyl-tert-butyl ether (ETBE)	50	47		1	95	70-130	04/19/2021 0934
Methyl tertiary butyl ether (MTBE)	50	42		1	84	70-130	04/19/2021 0934
Naphthalene	50	51		1	102	70-130	04/19/2021 0934
tert-butyl alcohol (TBA)	1000	960		1	96	70-130	04/19/2021 0934
Toluene	50	51		1	102	70-130	04/19/2021 0934
Xylenes (total)	100	100		1	100	70-130	04/19/2021 0934
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		103	70-130				
Bromofluorobenzene		96	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ89670-001

Matrix: Aqueous

Batch: 89670

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	04/20/2021 2215
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	04/20/2021 2215
Benzene	ND		1	1.0	0.40	ug/L	04/20/2021 2215
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	04/20/2021 2215
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	04/20/2021 2215
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	04/20/2021 2215
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	04/20/2021 2215
Ethanol	ND		1	100	52	ug/L	04/20/2021 2215
Ethylbenzene	ND		1	1.0	0.40	ug/L	04/20/2021 2215
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	04/20/2021 2215
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	04/20/2021 2215
Naphthalene	ND		1	1.0	0.40	ug/L	04/20/2021 2215
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	04/20/2021 2215
Toluene	ND		1	1.0	0.40	ug/L	04/20/2021 2215
Xylenes (total)	ND		1	1.0	0.40	ug/L	04/20/2021 2215
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		94	70-130				
Toluene-d8		105	70-130				
Bromofluorobenzene		100	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ89670-002

Matrix: Aqueous

Batch: 89670

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	820		1	82	70-130	04/20/2021 2059
tert-Amyl methyl ether (TAME)	50	47		1	93	70-130	04/20/2021 2059
Benzene	50	45		1	90	70-130	04/20/2021 2059
tert-Butyl formate (TBF)	250	240		1	97	70-130	04/20/2021 2059
1,2-Dichloroethane	50	45		1	90	70-130	04/20/2021 2059
Diisopropyl ether (IPE)	50	49		1	97	70-130	04/20/2021 2059
3,3-Dimethyl-1-butanol	1000	830		1	83	70-130	04/20/2021 2059
Ethanol	5000	4400		1	88	70-130	04/20/2021 2059
Ethylbenzene	50	47		1	95	70-130	04/20/2021 2059
Ethyl-tert-butyl ether (ETBE)	50	48		1	95	70-130	04/20/2021 2059
Methyl tertiary butyl ether (MTBE)	50	49		1	98	70-130	04/20/2021 2059
Naphthalene	50	43		1	86	70-130	04/20/2021 2059
tert-butyl alcohol (TBA)	1000	960		1	96	70-130	04/20/2021 2059
Toluene	50	48		1	96	70-130	04/20/2021 2059
Xylenes (total)	100	92		1	92	70-130	04/20/2021 2059
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		89	70-130				
Toluene-d8		97	70-130				
Bromofluorobenzene		96	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: WD14051-003MS

Matrix: Aqueous

Batch: 89670

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	21000	500000	480000		500	93	70-130	04/21/2021 0627
tert-Amyl methyl ether (TAME)	ND	25000	25000		500	98	70-130	04/21/2021 0627
Benzene	7400	25000	34000		500	107	70-130	04/21/2021 0627
tert-Butyl formate (TBF)	ND	130000	120000		500	97	70-130	04/21/2021 0627
1,2-Dichloroethane	ND	25000	26000		500	104	70-130	04/21/2021 0627
Diisopropyl ether (IPE)	4700	25000	32000		500	111	70-130	04/21/2021 0627
3,3-Dimethyl-1-butanol	ND	500000	480000		500	95	70-130	04/21/2021 0627
Ethanol	ND	2500000	2500000		500	102	70-130	04/21/2021 0627
Ethylbenzene	4100	25000	31000		500	106	70-130	04/21/2021 0627
Ethyl-tert-butyl ether (ETBE)	ND	25000	26000		500	104	70-130	04/21/2021 0627
Methyl tertiary butyl ether (MTBE)	ND	25000	26000		500	102	70-130	04/21/2021 0627
Naphthalene	1400	25000	25000		500	94	70-130	04/21/2021 0627
tert-butyl alcohol (TBA)	ND	500000	500000		500	100	70-130	04/21/2021 0627
Toluene	30000	25000	56000		500	104	70-130	04/21/2021 0627
Xylenes (total)	22000	50000	72000		500	100	70-130	04/21/2021 0627
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		100	70-130					
Toluene-d8		108	70-130					
Bromofluorobenzene		103	70-130					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: WD14051-003MD

Matrix: Aqueous

Batch: 89670

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	21000	500000	460000		500	87	5.9	70-130	20	04/21/2021 0649
tert-Amyl methyl ether (TAME)	ND	25000	23000		500	93	5.1	70-130	20	04/21/2021 0649
Benzene	7400	25000	33000		500	102	4.1	70-130	20	04/21/2021 0649
tert-Butyl formate (TBF)	ND	130000	120000		500	94	3.9	70-130	20	04/21/2021 0649
1,2-Dichloroethane	ND	25000	25000		500	99	4.2	70-130	20	04/21/2021 0649
Diisopropyl ether (IPE)	4700	25000	31000		500	105	4.4	70-130	20	04/21/2021 0649
3,3-Dimethyl-1-butanol	ND	500000	430000		500	86	9.5	70-130	20	04/21/2021 0649
Ethanol	ND	2500000	2300000		500	93	8.9	70-130	20	04/21/2021 0649
Ethylbenzene	4100	25000	30000		500	103	2.4	70-130	20	04/21/2021 0649
Ethyl-tert-butyl ether (ETBE)	ND	25000	25000		500	99	4.9	70-130	20	04/21/2021 0649
Methyl tertiary butyl ether (MTBE)	ND	25000	24000		500	97	4.8	70-130	20	04/21/2021 0649
Naphthalene	1400	25000	23000		500	88	6.2	70-130	20	04/21/2021 0649
tert-butyl alcohol (TBA)	ND	500000	480000		500	97	3.3	70-130	20	04/21/2021 0649
Toluene	30000	25000	54000		500	97	2.9	70-130	20	04/21/2021 0649
Xylenes (total)	22000	50000	70000		500	96	2.6	70-130	20	04/21/2021 0649

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		103	70-130
Bromofluorobenzene		98	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ90129-001

Matrix: Aqueous

Batch: 90129

Prep Method: 524.2

Analytical Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	0.50	0.40	ug/L	04/24/2021 1441
1,2-Dichloroethane	ND		1	0.50	0.40	ug/L	04/24/2021 1441
Ethylbenzene	ND		1	0.50	0.40	ug/L	04/24/2021 1441
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.40	ug/L	04/24/2021 1441
Naphthalene	ND		1	0.50	0.40	ug/L	04/24/2021 1441
Toluene	ND		1	0.50	0.40	ug/L	04/24/2021 1441
Xylenes (total)	ND		1	0.50	0.40	ug/L	04/24/2021 1441
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		94	70-130				
1,2-Dichlorobenzene-d4		93	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ90129-002

Matrix: Aqueous

Batch: 90129

Prep Method: 524.2

Analytical Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	5.0	5.0		1	100	70-130	04/24/2021 1416
1,2-Dichloroethane	5.0	4.9		1	98	70-130	04/24/2021 1416
Ethylbenzene	5.0	4.7		1	95	70-130	04/24/2021 1416
Methyl tertiary butyl ether (MTBE)	5.0	5.1		1	102	70-130	04/24/2021 1416
Naphthalene	5.0	4.7		1	93	70-130	04/24/2021 1416
Toluene	5.0	4.9		1	97	70-130	04/24/2021 1416
Xylenes (total)	10	10		1	102	70-130	04/24/2021 1416
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		97	70-130				
1,2-Dichlorobenzene-d4		100	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: WQ89100-001

Matrix: Aqueous

Batch: 89100

Prep Method: 8011

Analytical Method: 8011

Prep Date: 04/15/2021 0920

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	04/21/2021 1055
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		115	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: WQ89100-002

Matrix: Aqueous

Batch: 89100

Prep Method: 8011

Analytical Method: 8011

Prep Date: 04/15/2021 0920

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	116	60-140	04/21/2021 1105
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		115	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MS

Sample ID: WD14051-001MS

Matrix: Aqueous

Batch: 89100

Prep Method: 8011

Analytical Method: 8011

Prep Date: 04/15/2021 0920

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.020	0.24	0.41	N	1	161	60-140	04/21/2021 1127
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		116	57-137					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - Duplicate

Sample ID: WD14051-002DU

Matrix: Aqueous

Batch: 89100

Prep Method: 8011

Analytical Method: 8011

Prep Date: 04/15/2021 0920

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	04/21/2021 1148
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		115	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: WQ89701-001

Matrix: Aqueous

Batch: 89701

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 04/21/2021 0920

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0040	ug/L	04/21/2021 1803
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		103	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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EDB & DBCP by Microextraction - LCS

Sample ID: WQ89701-002

Matrix: Aqueous

Batch: 89701

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 04/21/2021 0920

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.24		1	97	70-130	04/21/2021 1815
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		103	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MS

Sample ID: WD14051-014MS

Matrix: Aqueous

Batch: 89701

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 04/21/2021 0920

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.25		1	102	70-130	04/21/2021 1852
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		104	57-137					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - Duplicate

Sample ID: WD14051-015DU

Matrix: Aqueous

Batch: 89701

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 04/21/2021 0920

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	04/21/2021 1916
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		105	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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**Chain of Custody
and
Miscellaneous Documents**



PACE ANALYTICAL SERVICES, LLC
 108 Vantage Point Drive - West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 112477

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 108 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client Katawba Env		Report to Contact Alex Amos		Telephone No. / E-mail		Quote No.	
Address 4278 Dyc Rd		Sampler's Signature <i>Billy Morris</i>		Analysis (Attach list if more space is needed)			
City Edgemoor	State SC	Zip Code 29712	Printed Name Billy Morris		Page 1 of 2		
Project Name Okatie Mart		Project No. Okatie Mart		Barcode WD14051			
Sample ID / Description 10628 MW4		Collection Date 4-12-21	Collection Time 1129	Matrix EDB			
10628 MWS			1239				
10628 MW7			1417				
10628 MWS			1548				
10628 MW18			1058				
10628 MW19			1153				
10628 MW20			1312				
10628 MW20 Dup			1314				
10628 DW			1029				
10628 RW1		4/22/21	1531				
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush (Specify) 7 Day TAT		Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown		QC Requirements (Specify)	
1. Relinquished by Billy Morris		Date 4-14-21	Time 1352	1. Received by		Date	Time
2. Relinquished by		Date	Time	2. Received by		Date	Time
3. Relinquished by		Date	Time	3. Received by		Date	Time
4. Relinquished by		Date	Time	4. Laboratory received by <i>[Signature]</i>		Date 7/14/21	Time 1352
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAD USE ONLY Received on (Circle) Yes No for Pick		Recept Temp 4.1 °C	Temp Blank <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

PACE ANALYTICAL SERVICES, LLC

Document Number: MEC0306-01



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Number **112476**

Pace Analytical Services, LLC (formerly Shanly Environmental Services, Inc.)
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Client Katawba Env		Report to Contact Alex Amos		Telephone No. / E-mail		Custs No.	
Address 4278 Dye Rd		Sampler's Signature x Billy Morris		Analysis (Attach list if more space is needed)		Page 2 of 2	
City Edgemoor		State SC		Zip Code 29712		Printed Name Billy Morris	
Project Name OKatie Mart		Project No. OKatie Mart		Matrix		No of Containers by Preservative Type	
Sample ID / Description (Continued for each sample only be combined on one line)		Collection Date		Collection Time (Military)		Remarks / Cooler I.D.	
10628 RW4		4/12/21		1452			
10628 Pond 1				1452			
10628 Pond 2				1452			
10628 DW1				1102			
10628 DW1 Dup				1104			
10628 FB				1100			
10628 F02				1113			
10628 TB		4/12/21		1612			



WD14051

LID

Remarks / Cooler I.D.

Turn Around Time Required (Prior lab approval required for expedited LAL)		Sample Disposal		Possible Hazard Identification				QC Requirements (Specify)	
<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush (Specify) 7 Day TAT		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab		<input type="checkbox"/> No Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown					
1. Relinquished by Billy Morris		Date 4/14/21		Time 1352		1. Received by		Date	
2. Relinquished by		Date		Time		2. Received by		Date	
3. Relinquished by		Date		Time		3. Received by		Date	
4. Relinquished by		Date		Time		4. Laboratory received by		Date 4/14/21	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY		<input type="checkbox"/> No Ice Pack <input type="checkbox"/> Ice Pack		Receive Temp 4.1 °C Temp Blank <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy Document Number: MC00208-01

PACE ANALYTICAL SERVICES, LLC

PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)
 Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020
 Page 1 of 1

Sample Receipt Checklist (SRC)

Client: KOJAWOJA

Cooler Inspected by/date: JRG2 4/14/21 Lot #: WDS14051

Means of receipt: Pace Client UPS FedEx Other

Yes No 1. Were custody seals present on the cooler?
 Yes No NA 2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA
 Original temperature upon receipt / Derived (Corrected) temperature upon receipt: 4.1/4.1 °C / NA °C / NA °C / NA °C %Solid Snap-Cup ID: NA

Method: Temperature Blank Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C
 Method of coolant: Wet Ice Ice Packs Dry Ice None

Yes No NA 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?
 PM was Notified by: phone / email / face-to-face (circle one)

Yes No NA 4. Is the commercial courier's packing slip attached to this form?

Yes No 5. Were proper custody procedures (relinquished/received) followed?

Yes No 6. Were sample IDs listed on the COC?

Yes No 7. Were sample IDs listed on all sample containers?

Yes No 8. Was collection date & time listed on the COC?

Yes No 9. Was collection date & time listed on all sample containers?

Yes No 10. Did all container label information (ID, date, time) agree with the COC?

Yes No 11. Were tests to be performed listed on the COC?

Yes No 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?

Yes No 13. Was adequate sample volume available?

Yes No 14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?

Yes No NA 15. Were any samples containers missing/excess (circle one) samples Not listed on COC?

Yes No NA 16. For VOA and RSK-175 samples, were bubbles present > "pca-size" (1/4" or 6mm in diameter) in any of the VOA vials?

Yes No NA 17. Were all DRO/metals/nutrient samples received at a pH of < 2?

Yes No NA 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?

Yes No NA 19. Were all applicable NH₃/TKN/cyanide/picnol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?

Yes No NA 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?

Yes No 21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA
 Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles > 6 mm in diameter.

Sample(s) NA were received with TRC > 0.5 mg/L (If #19 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na₂S₂O₃) with Shealy ID: NA

SR barcode labels applied by: JRG2 Date: 4/14/21

Comments: EXCESS: MIN-14 (3 VOC'S, 2 EDB)
ON SECOND MAIN FIRST 3 SAMPLES + FB2 HAVE 5
VOC'S (3 VOC'S, 2 EDB)
DWNI, DWNI DUP + FB HAS 8 VOC'S 3 VOC DRY 3 VOC'S SH2
2 EDB
TRIP BLANK: 2 VOC'S (XY) 2 VOC'S (SH)

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-4R

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 2.31 ft.

Length of Water Column (LWC=TWD-DGW) 12.69 ft.

1 Csg. Volume (LWC*C) = 12.69 X 0.163 = 2.06 gals.
 3 Csg. Volumes = 3 X 2.06 = 6.20 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.5 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	2	4	6.5				
Time (military)	1108	1114	1122	1129				
pH (s.u.)	8.05	8.13	8.16	8.16				
Specific Cond. (umhos/cm)	187	215	214	212				
Water Temp (°C)	21.5	19.8	19.3	19.5				
Turbidity (*)	19.5	20.3	20.8	20.9				
Dissolved Oxygen	0.79	0.86	0.89	0.87				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-5

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 3.38 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1239							
pH (s.u.)	7.47							
Specific Cond. (umhos/cm)	575							
Water Temp (°C)	20.1							
Turbidity (*)	35.6							
Dissolved Oxygen	2.53							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-7R

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 7.33 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1417							
pH (s.u.)	7.63							
Specific Cond. (umhos/cm)	401							
Water Temp (°C)	24.0							
Turbidity (*)	112							
Dissolved Oxygen	4.03							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-14

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 13.05 ft.
 Depth to GW (DGW) 3.07 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1325							
pH (s.u.)	7.65							
Specific Cond. (umhos/cm)	987							
Water Temp (°C)	21.5							
Turbidity (*)	56.8							
Dissolved Oxygen	2.46							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-15

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 3.72 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1343							
pH (s.u.)	7.64							
Specific Cond. (umhos/cm)	392							
Water Temp (°C)	21.3							
Turbidity (*)	95.1							
Dissolved Oxygen	3.72							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-18

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 0.18 ft.

Length of Water Column (LWC=TWD-DGW) 11.82 ft.

1 Csg. Volume (LWC*C) = 11.82 X 0.163 = 1.92 gals.
 3 Csg. Volumes = 3 X 1.92 = 5.77 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	2	4	6				
Time (military)	1036	1043	1051	1058				
pH (s.u.)	7.48	7.58	7.62	7.61				
Specific Cond. (umhos/cm)	187	189	203	200				
Water Temp (°C)	21.5	19.6	19.2	19.3				
Turbidity (*)	26.5	29.2	31.6	31.4				
Dissolved Oxygen	0.89	0.93	0.96	0.94				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-19

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 4.63 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1153							
pH (s.u.)	7.48							
Specific Cond. (umhos/cm)	405							
Water Temp (°C)	19.5							
Turbidity (*)	64.6							
Dissolved Oxygen	2.88							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-20

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 14 ft.
 Depth to GW (DGW) 10.11 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1312							
pH (s.u.)	7.37							
Specific Cond. (umhos/cm)	350							
Water Temp (°C)	19.9							
Turbidity (*)	36.8							
Dissolved Oxygen	1.09							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # DW-1

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 35 ft.
 Depth to GW (DGW) 2.67 ft.

Length of Water Column (LWC=TWD-DGW) 32.33 ft.

1 Csg. Volume (LWC*C) = 32.33 X 0.163 = 5.26 gals.

3 Csg. Volumes = 3 X 5.26 = 15.80 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 16 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	5.5	11	16				
Time (military)	952	1005	1018	1029				
pH (s.u.)	10.2	10.2	9.71	9.76				
Specific Cond. (umhos/cm)	279	276	278	281				
Water Temp (°C)	21.6	19.5	19.2	19.4				
Turbidity (*)	19.6	18.9	19.1	18.3				
Dissolved Oxygen	1.39	1.41	0.98	0.96				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # RW-1

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 4.80 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1531							
pH (s.u.)	7.19							
Specific Cond. (umhos/cm)	381							
Water Temp (°C)	23.7							
Turbidity (*)	107							
Dissolved Oxygen	3.97							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 4/12/21
 Field Personnel Billy Morris / Alex Amos
 General Weather Condition Sunny
 Ambient Air Temperature 81
 Facility Name Okatie Mart Site ID# 10628

Quality Assurance:

pH Meter Hanna Conductivity Meter: YSI PRO 2030
 serial no 08369830 serial no. 11G100871
 pH=4.0 4.0 Standard 10=10
 pH=7.0 7.0 Standard 100=100
 pH=10.0 10.0 Standard _____

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # RW-4

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 5.73 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C) = X 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1557							
pH (s.u.)	8.27							
Specific Cond. (umhos/cm)	187							
Water Temp (°C)	21.5							
Turbidity (*)	19.8							
Dissolved Oxygen	0.79							

APPENDIX C
DISPOSAL MANIFESTS

UST SITE
 Petroleum
 South Carolina

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of	
3. Generator's Name and Mailing Address <i>KATAWHA ENVIRONMENTAL 4278 DYE ROAD EDGEWOOD, SC 29712</i>							
4. Generator's Phone ()				6. US EPA ID Number		A. State Transporter's ID	
5. Transporter 1 Company Name				8. US EPA ID Number		B. Transporter 1 Phone	
7. Transporter 2 Company Name				10. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address <i>Hor Mt. 221 Darden Dr CHARLOTTE, NC</i>						D. Transporter 2 Phone	
						E. State Facility's ID	
						F. Facility's Phone	
11. WASTE DESCRIPTION <i>PUNGLE WATER UST SITE</i>				12. Containers		13. Total Quantity	
a. <i>OKATE MOUNT, OKATE HY, HANCOCKVILLE, SC SITE ID 10628</i>				No.	Type		14. Unit Wt./Vol.
				1	Drum	12	60Ls
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <i>Phil Morris</i>				Signature <i>Phil Morris</i>		Date Month Day Year <i>5 1 01</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
						Date Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
						Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name <i>Mike Hands</i>				Signature <i>Mike Hands</i>		Date Month Day Year <i>5 1 01</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

APPENDIX D
QAPP CHECKLIST

QAPP Contractor Checklist Okatie Mart Site ID 10628

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

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



**Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging**

Site Information

Date: 8/2/2021	Site ID #: 10628	Site Name: Shreejakshani DBA Okatie Mart
County: Jasper	Project Manager: Zachary Griffith	Field Personnel: Zachary Griffith, Corie White, Sedona Edgar

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-14	12	2-12	0.9'	5.7'	4.8'				No	Yes
RW-3	12	2-12	2.5'	7.1'	4.6'				No	Yes
RW-6	15	2-15	3.7"	7'*	3.3'				No	Yes
MW-7RR	12	2-12	—	4'8"					No	Yes
RW-1	12	2-12	—	4.5	new well cap		needed		No	yes
RW-5	15	2-15	—	4'9"	Strong odor				No	yes
MW-3R			1.7	3.0	1.3'				No	yes



Notes: RW-6 - obstructed @ 7' bgs FP throughout!

Signature: *Zachary Griffith*



AUG 04 2021

DONNIE MALPHRUS
MALPHRUS ENTERPRISES
2789 NORTH OKATIE HWY
RIDGELAND SC 29936-8235



Re: Shreejakshani, LLC D/B/A Okatie Mart (Former Pantry 911)
6195 South Okatie Hwy., Hardeeville, SC
UST Permit #10628; CA #63419
Release #1 reported April 28, 1995
Jasper County

Dear Mr. Malphrus:

A release at this facility was reported on April 28, 1995 and confirmed on March 20, 1996. Malphrus Enterprises was the owner of the underground storage tank (UST) system at the time the release was reported and is responsible for site rehabilitation, pursuant to the State Underground Petroleum Environmental Response Bank (SUPERB) Act (S.C. Code Ann. § 44-2-80). In June 2010, you submitted an Owner/Operator Contractor Selection form selecting Midlands Environmental Consultants, Inc. (MECI) to conduct site rehabilitation activities for the referenced release. In December 2020, the UST Management Division (Division) received an Owner/Operator Contractor Selection form selecting Katawba Environmental, Inc. (Katawba); however this form was signed by the current tank owner, Shirishi Shah, who cannot select a contractor for the referenced release.

On February 1, 2021, the Division sent a Site-Specific Work Plan (SSWP) Request letter for groundwater sampling to Malphrus Enterprises but in error the wrong contractor was copied. The contractor copied on the letter was Katawba instead of MECI. On March 5, 2021, the Division received an SSWP from Katawba. The SSWP was approved and, on March 24, 2021, a Notice to Proceed letter was sent to Malphrus Enterprises with Katawba copied. A monitoring report was submitted by Katawba on June 7, 2021. I have enclosed a copy of the report for your records. Katawba should not have conducted the sampling event as they were not the contractor you had selected. However, as this was due to the Divisions' error, payment will be processed and paid from the SUPERB Account to Katawba.

In the future, all scopes of work will be directed to MECI, the selected contractor for Malphrus Enterprises.

On all correspondence concerning this site, please reference UST Permit #10628. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0595, by fax at (803) 898-0673, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Briney". The signature is written in black ink and is positioned above the typed name.

Stephanie Briney, Manager
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Monitoring Report received June 7, 2021

cc: Midlands Environmental Consultants, Inc., P.O. Box 854, Lexington, SC 29071 (w/enc)
Katawba Environmental Inc., 4278 Dye Rd., Edgemoor, SC 29712 (w/out enc)
Shirishi Shah, 6194 South Okatie Hwy., Hardeeville, SC 29927 (w/out enc)
Technical file (w/out enc)



AUG 13 2021



SHIRISHI SHAH
6194 S OKATIE HIGHWAY
HARDEEVILLE SC 29927

Re: **Site-Specific Work Plan Request for Additional Assessment**
Shreejakshani LLC DBA Okatie Mart, 6194 S Okatie Highway, Hardeeville, SC
UST Permit #10628
Release reported April 28, 1995
Monitoring Report Received June 7, 2021
Jasper County

Dear Mr. Shah:

The Underground Storage Tank Management (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

To determine what risk the referenced release may pose to human health and the environment, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations R.61-92, implementation of additional assessment is necessary. The assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at scdhec.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

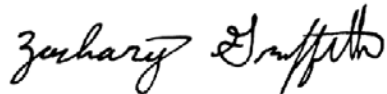
- To prevent further migration of free phase petroleum product (FP) and dissolved phase concentrations towards the referenced area on the attached site map where petroleum staining and distressed vegetation has been observed; abatement measures should be employed as part of this scope of work.
- The horizontal and/or vertical extent of the source area and petroleum plume is not defined. Assessment strategies along with soil screening should be conducted around the UST tank system, and south of RW-3 and RW-6 to define the source area and petroleum plume.
- Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1,000 foot radius of the site or 500 feet from the leading edge of the plume.
- Additionally, an updated receptor survey should be included as part of this assessment.

Your contractor must complete the SSWP and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

UST Division records indicate that a site rehabilitation contractor has been selected for this release, however a new contractor selection form is needed. The enclosed form should be completed and returned to my attention within fifteen (15) days of the date of this letter. A list of certified contractors is enclosed for your information.

On all correspondence concerning this site, please reference the above listed UST Permit number. Should you have any questions, please contact me by phone at (803) 898-0606, by fax at (803)-898-0673, or by email at griffiza@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Zachary Griffith". The signature is written in a cursive, flowing style.

Zachary Griffith, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Owner/Operator Lead Information Form
Certified Contractors List
Site Map

cc: Katawba Environmental Inc., 4278 Dye Road, Edgemoor, SC 29712 (w/ site map)
Technical file (w/ Owner/Operator Lead Info form and site map)



Owner/Operator Contractor Selection Form Underground Storage Tank (UST) Management Division

1. CONTRACTOR OF CHOICE

As the current or former UST Owner/Operator and the designated party responsible for the confirmed release reported on the date and permit number provided.	Release Report Date: 4/28/1995	Permit Number: 10628
---	-----------------------------------	-------------------------

I would like to use the contractor listed below to conduct all site rehabilitation work for the referenced release reported above:

Name of Contractor:		
Address:		
City:	State:	Zip:
Telephone Number:	Certification Number:	

NOTE: Site rehabilitation activities must be performed by a S.C. Certified Site Rehabilitation Contractor per Section 44-2-120(A) of the SUPERB Act and Section IV(A) of the S.C. DHEC SUPERB Site Rehabilitation and Fund Access Regulation R.61-98.

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above?	<input type="checkbox"/> Yes <input type="checkbox"/> No	O/O Initial:
---	--	--------------

FINANCIAL RELATIONSHIP: A connection or association through a material interest of sources of income which exceed five percent of annual gross income from a business entity.

FAMILIAL RELATIONSHIP: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great-grandchild, step-grandparent, step-great-grandparent, step-grandchild, step-great-grandchild or fiancée.

3. PAYMENT

A. The first \$25,000.00 in eligible site rehabilitation costs for releases reported subsequent to July 1, 1993 will be applied against the applicable SUPERB deductible per Section 44-2-40(D) of the SUPERB Act, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.

B. For eligible costs exceeding the \$25,000.00 deductible, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (Check one.)

<input type="checkbox"/> For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor.	O/O Initial:
--	--------------

- OR -

<input type="checkbox"/> For eligible costs exceeding the deductible, I request that payment be made directly to the contractor.	O/O Initial:
--	--------------

C. If the release qualifies under amnesty (reported prior to July 1, 1993) per Section 44-2-40(B) of the SUPERB Act, you can pay the contractor and be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (Check one.)

<input type="checkbox"/> For eligible costs, I request that payment be made to me after I have paid the contractor.	O/O Initial:
---	--------------

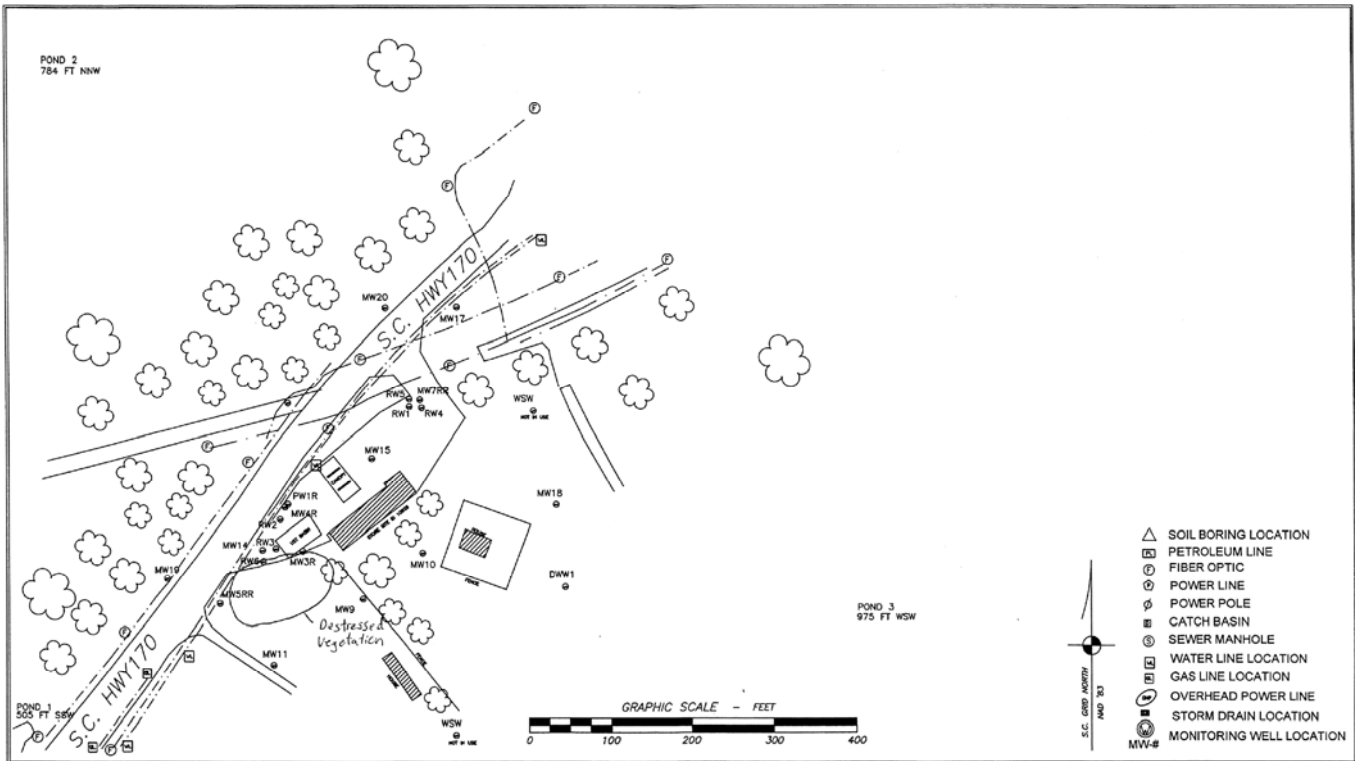
- OR -

<input type="checkbox"/> For eligible costs, I request that payment be made directly to the contractor.	O/O Initial:
---	--------------

NOTE: As required by the SUPERB Act, all costs must receive prior financial approval from DHEC regardless of payment option.

4. UST OWNER/OPERATOR OR PARTY RESPONSIBLE FOR ABOVE REFERENCED RELEASE

Signature:	Date Signed:
Printed Name:	Telephone Number: ()
Affiliation (if applicable):	Email Address:



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR, SC 29712
(803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2

SITE MAP



Katawba Environmental, Inc.

August 24, 2021

Mr. Zachary Griffith
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

RECEIVED
AUG 27 2021
UST DIVISION



RE: **SSWP**
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA

Dear Mr. Griffith:

Katawba Environmental, Inc. (Katawba) has prepared this SSWP for the above-referenced facility for your review. This plan was created in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated August 13, 2021. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant



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

To: Zach Griffith (SCDHEC Project Manager)
 From: Alex Amos, PG (Contractor Project Manager)
 Contractor: Katawba Environmental, Inc. UST Contractor Certification Number: 18

Facility Name: Shreejakshani LLC DBA Okatie Mart UST Permit #: 10628
 Facility Address: 2789 N Okatie Highway, Hardeeville, SC
 Responsible Party: Shreejakshani LLC Phone: 843 784 6194
 RP Address: 2789 N Okatie Highway, Hardeeville, SC
 Property Owner (if different): Same
 Property Owner Address: Same
 Current Use of Property: Convenience store that retails petroleum products. Site ID 10628

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:

- | | | | |
|--|--|--------------------------------------|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (8260B) | <input type="checkbox"/> Lead | <input type="checkbox"/> BOD | <input type="checkbox"/> Methane |
| <input checked="" type="checkbox"/> Oxygenates (8260B) | <input type="checkbox"/> 8 RCRA Metals | <input type="checkbox"/> Nitrate | <input type="checkbox"/> Ethanol |
| <input checked="" type="checkbox"/> EDB (8011) | <input type="checkbox"/> TPH | <input type="checkbox"/> Sulfate | <input type="checkbox"/> Dissolved Iron |
| <input checked="" type="checkbox"/> PAH (8270D) | <input type="checkbox"/> pH | <input type="checkbox"/> Other _____ | |

Drinking Water Supply Wells:

- BTEXNMDCA (524.2) Mercury (200.8 245.1 or 245.2) EDB (504.1)
 Oxygenates & Ethanol (8260B) RCRA Metals (200.8)

Soil:

- | | | | | |
|--|--|--|--|--|
| <input checked="" type="checkbox"/> BTEXNM | <input type="checkbox"/> Lead | <input type="checkbox"/> RCRA Metals | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input checked="" type="checkbox"/> Grain Size |
| <input checked="" type="checkbox"/> PAH | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC | |

Air:

- BTEXN

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

_____ Soil	<u>1</u> Water Supply Wells	_____ Air	<u>2</u> Field Blank
<u>29</u> Monitoring Wells	<u>3</u> Surface Water	<u>2</u> Duplicate	<u>1</u> 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: 14 Estimated Footage: 12-15 ft feet per point
 # of deep points proposed: 2 Estimated Footage: 65 ft 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: 11 / 2 Estimated Footage: 15 / 30 feet per point
 # of deep wells: 2 Estimated Footage: 65 feet per point
 # of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

UST Permit #: 10628 Facility Name: Shreejakshani LLC

Implementation Schedule (Number of calendar days from approval)
 Field Work Start-Up: 10 Days from approval Field Work Completion: 30 Days from approval
 Report Submittal: 60 Days from approval # 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: 8 Tons Purge Water: 200 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: _____

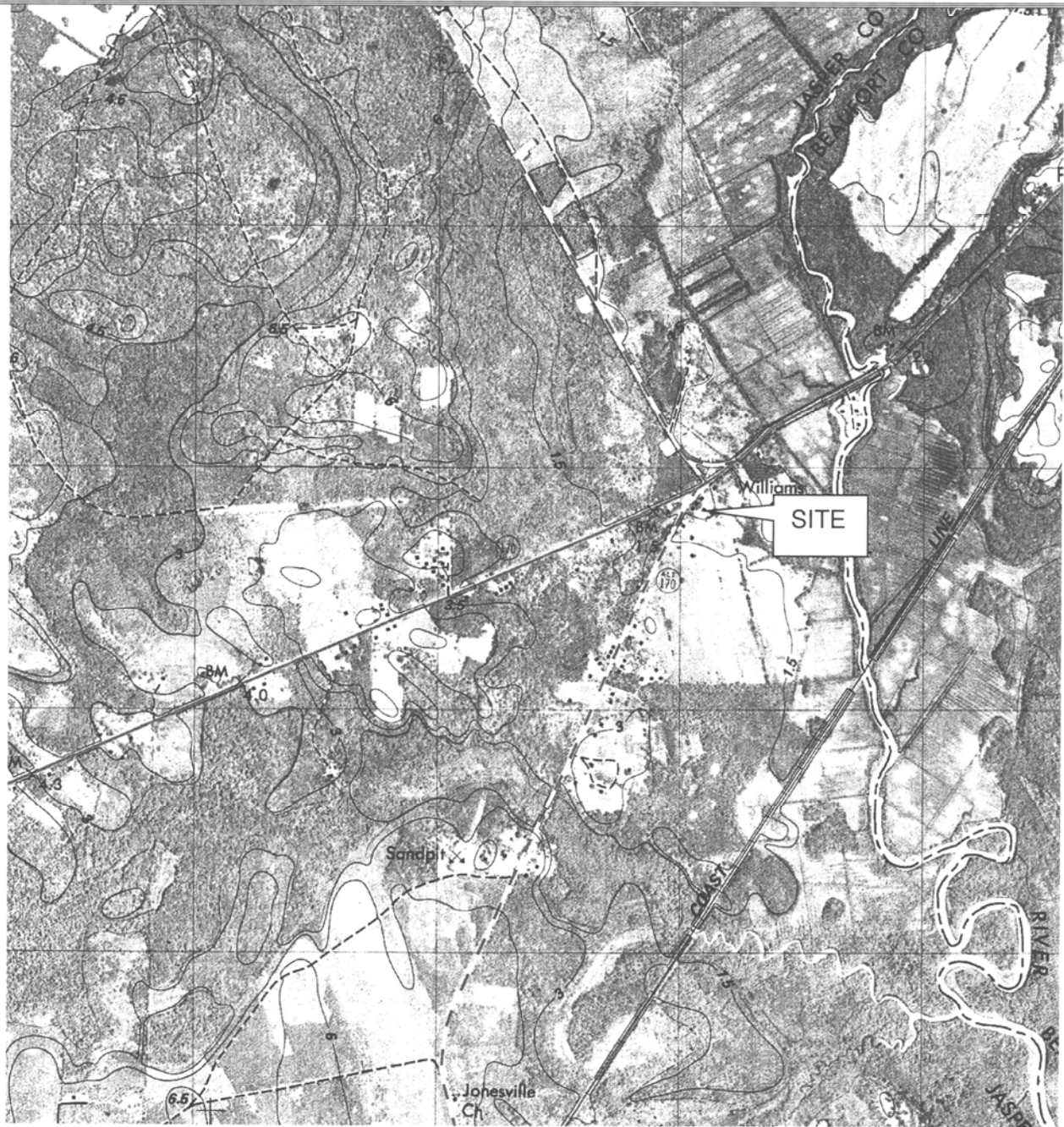
Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
 Name of Well Driller: _____
 SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

Attachments

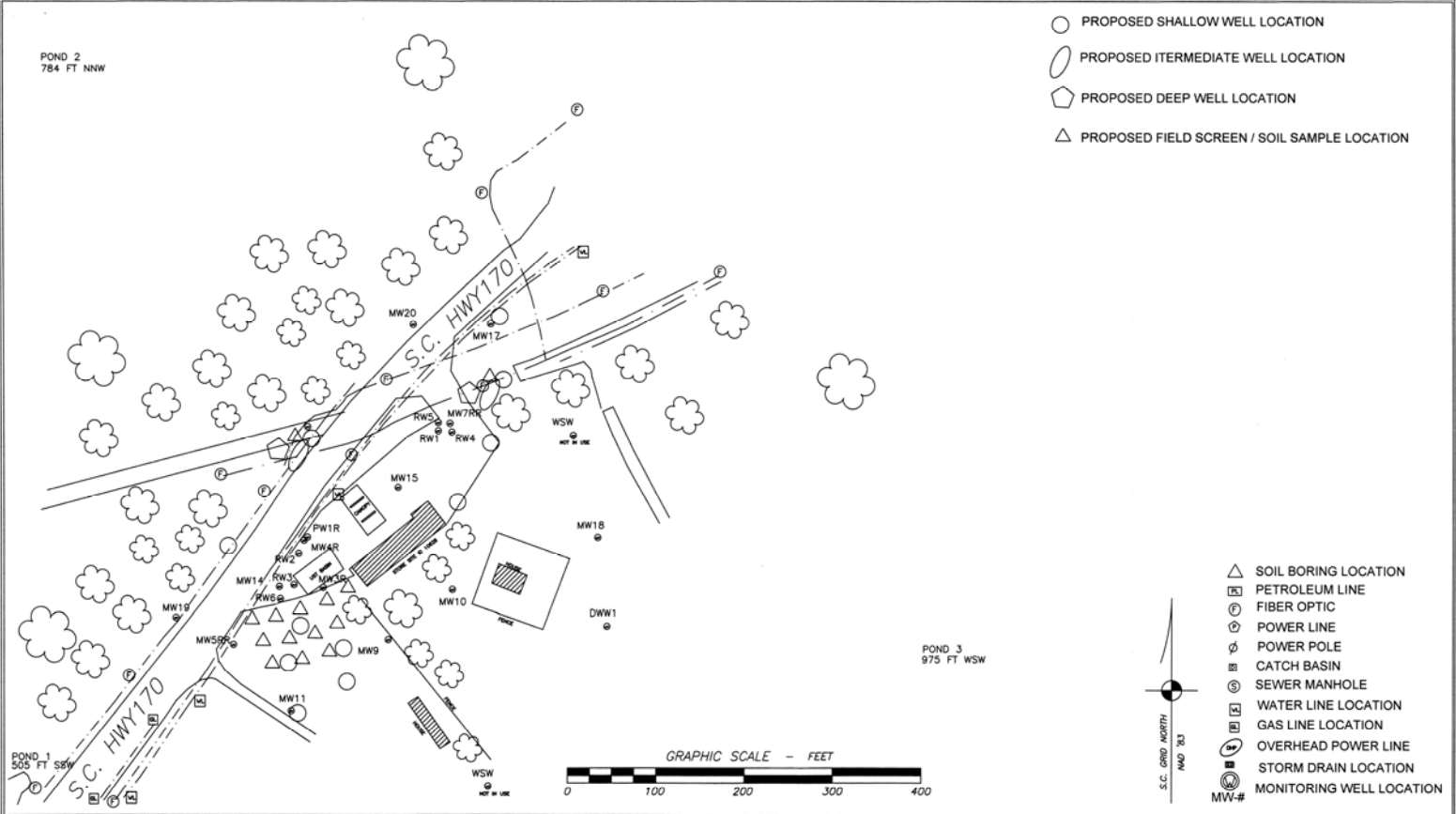
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

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



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

SAMPLING REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2
SITE MAP



Healthy People. Healthy Communities.

**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

January 1, 2020

Facility Name: Okatie Mart

UST Permit #: 10628

Cost Agreement #:

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan	1	each	\$160.05	\$160.05
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
B. Receptor Survey *				
	1	each	\$587.92	\$587.92
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey Subsurface Geophysical Survey		each	\$1,109.68	\$0.00
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mob/Demob				
1. Equipment	1	each	\$1,088.34	\$1,088.34
2. Personnel	6	each	\$451.34	\$2,708.04
3. Adverse Terrain Vehicle		each	\$533.50	\$0.00
E.. Soil Borings (hand auger)*				
	120	foot	\$5.34	\$640.80
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
1. Standard	190	per foot	\$16.01	\$3,041.90
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model				
		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less	310	per foot	\$3.31	\$1,026.10
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)	12	per foot	\$11.31	\$135.72
2. Water Table (drill rig) 2" Diameter	225	per foot	\$40.55	\$9,123.75
3. Telescoping	130	per foot	\$53.35	\$6,935.50
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
9. Rotasonic (2" diameter)		per foot	\$46.95	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00

J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge	14	per well	\$64.02	\$896.28
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate		sample	\$23.47	\$0.00
4. Groundwater No Purge or Duplicate or Grab	20	sample	\$29.88	\$597.60
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank	2	sample	\$26.25	\$52.50
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00
K. Laboratory Analyses-Groundwater				
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	36	per sample	\$130.17	\$4,686.12
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's	15	per sample	\$64.66	\$969.90
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011	35	per sample	\$48.23	\$1,688.05
8. EDB by EPA Method 8011 Rush		per sample	\$72.77	\$0.00
9. 8 RCRA Metals		per sample	\$67.65	\$0.00
10. TPH (9070)		per sample	\$43.75	\$0.00
11. PH		per sample	\$5.55	\$0.00
12. BOD		per sample	\$21.34	\$0.00
13. Ethanol		per sample	\$15.79	\$0.00
K. Analyses-Drinking Water				
14. BTEXNM+1,2 DCA (524.2)	4	per sample	\$132.36	\$529.44
15. 7-OXYGENATES & ETHANOL (8260B)	3	per sample	\$97.90	\$293.70
16. EDB (504.1)	3	per sample	\$84.83	\$254.49
17. RCRA METALS (200.8)		per sample	\$106.70	\$0.00
K. Analyses-Soil				
18. BTEX + Naphth.	14	per sample	\$68.29	\$956.06
19. PAH's	13	per sample	\$68.33	\$888.29
20. 8 RCRA Metals		per sample	\$60.18	\$0.00
21. TPH-DRO (3550C/8015C)		per sample	\$42.68	\$0.00
22. TPH- GRO (5035B/8015C)		per sample	\$38.37	\$0.00
23. Grain size/hydrometer	2	per sample	\$110.97	\$221.94
24. Total Organic Carbon		per sample	\$32.65	\$0.00
K. Analyses-Air				
25. BTEX + Naphthalene		per sample	\$230.47	\$0.00
K. Analyses-Free Phase Product				
26. Hydrocarbon Fuel Identification		per sample	\$380.92	\$0.00
L. Aquifer Characterization*				
1. Pumping Test		per hour	\$24.54	\$0.00
2. Slug Test		per test	\$203.80	\$0.00
3. Fractured Rock		per test	\$106.70	\$0.00

M. Free Product Recovery Rate Test*		each	\$40.55	\$0.00
N. Fate/Transport Modeling				
1. Mathematical Model		each	\$106.70	\$0.00
2. Computer Model		each	\$106.70	\$0.00
O. Risk Evaluation				
1. Tier I Risk Evaluation		each	\$320.10	\$0.00
2. Tier II Risk Evaluation		each	\$106.70	\$0.00
P. Subsequent Survey*	1	each	\$260.00	\$260.00
Q. Disposal (gallons or tons)*				
1. Wastewater	100	gallon	\$0.60	\$60.00
2. Free Product		gallon	\$0.53	\$0.00
3. Soil Treatment/Disposal	8	ton	\$64.02	\$512.16
4. Drilling fluids		gallon	\$0.45	\$0.00
R. Miscellaneous (attach receipts)				
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
T. Tier I Assessment (Use DHEC 3665 form)				
1. Southeast Region		standard	\$11,026.00	\$0.00
2. All Other Counties		standard	\$12,093.00	\$0.00
U. IGWA (Use DHEC 3666 form)				
1. Southeast Region		standard	\$3,803.00	\$0.00
2. All Other Counties		standard	\$4,123.00	\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid		\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)				
1. 8-hour Event*		per event	\$1,467.13	\$0.00
2. 24-hour Event*		per event	\$4,081.28	\$0.00
3. 48-hour Event*		per event	\$6,706.10	\$0.00
4. 96-hour Event*		per event	\$13,409.52	\$0.00
5. Off-gas Treatment 8 hour		per event	\$130.71	\$0.00
6. Off-gas Treatment 24 hour		per event	\$257.68	\$0.00
7. Off-gas Treatment 48 hour		per event	\$348.91	\$0.00
8. Off-gas Treatment 96 hour		per event	\$832.26	\$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$430.00	\$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$500.00	\$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,000.00	\$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,000.00	\$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.50	\$0.00
14. AFVR Site Reconnaissance		each	\$216.87	\$0.00
15. Additional Hook-ups		each	\$27.48	\$0.00
16. AFVR Effluent Disposal		gallon	\$0.47	\$0.00
17. AFVR Mobilization/Demobilization		each	\$417.73	\$0.00
X. Granulated Activated Carbon (GAC) filter system installation & service:				
1. New GAC System Installation*		each	\$2,027.30	\$0.00
2. Refurbished GAC Sys. Install*		each	\$960.30	\$0.00
3. Filter replacement/removal*		each	\$373.45	\$0.00

4. GAC System removal, cleaning, & refurbishment*		each	\$293.43	\$0.00
5. GAC System housing*		each	\$266.75	\$0.00
Y. Well Repair				
1. Additional Copies of the Report Delivered		each	\$53.35	\$0.00
2. Repair 2x2 MW pad*		each	\$53.35	\$0.00
3. Repair 4x4 MW pad*		each	\$93.90	\$0.00
4. Replace well vault*		each	\$125.91	\$0.00
5. Replace well cover bolts		each	\$2.77	\$0.00
6. Replace locking well cap & lock		each	\$16.00	\$0.00
7. Replace/Repair stick-up*		each	\$142.98	\$0.00
8. Convert Flush-mount to Stick-up*		each	\$160.05	\$0.00
9. Convert Stick-up to Flush-mount*		each	\$138.71	\$0.00
10. Replace missing/illegible well ID plate		each	\$12.80	\$0.00
S. Report Prep & Project Management	12%	percent	\$38,314.65	\$4,597.76
TOTAL				\$42,912.41

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



Katawba Environmental, Inc.

September 8, 2021

Mr. Arthur Brown
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708



RECEIVED
SEP 10 2021
UST DIVISION

**RE: SSWP
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA**

Dear Mr. Brown:

Katawba Environmental, Inc. (Katawba) has prepared this SSWP for the above-referenced facility for your review. This plan was created in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated August 13, 2021. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant



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

RECEIVED
SEP 10 2021
UST DIVISION

To: Arthur Brown (SCDHEC Project Manager)
 From: Alex Amos, PG (Contractor Project Manager)
 Contractor: Katawba Environmental, Inc. UST Contractor Certification Number: 18

Facility Name: Shreejakshani LLC DBA Okatie Mart UST Permit #: 10628
 Facility Address: 2789 N Okatie Highway, Hardeeville, SC
 Responsible Party: Shreejakshani LLC Phone: 843 784 6194
 RP Address: 2789 N Okatie Highway, Hardeeville, SC
 Property Owner (if different): Same
 Property Owner Address: Same
 Current Use of Property: Convenience store that retails petroleum products. Site ID 10628

Scope of Work (Please check all that apply)

- IGWA Tier II Groundwater Sampling GAC
 Tier I Monitoring Well Installation Other AFVR

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 _____

Drinking Water Supply Wells:

- BTEXNMDCA (524.2) Mercury (200.8 245.1 or 245.2) EDB (504.1)
 Oxygenates & Ethanol (8260B) 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	<u>1</u> Water Supply Wells	_____ Air	<u>2</u> Field Blank
<u>33</u> Monitoring Wells	<u>3</u> Surface Water	<u>2</u> Duplicate	<u>1</u> 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: 14 Estimated Footage: 12-15 ft feet per point
 # of deep points proposed: 2 Estimated Footage: 65 ft feet per point

Field Screening Methodology: Calibrated OVA scan of soil every 1 FT from surface to water table. 8 soil samples submitted for analysis.

Permanent Monitoring Wells

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

of shallow wells: 11 / 2 Estimated Footage: 15 / 30 feet per point
 # of deep wells: 2 Estimated Footage: 65 feet per point
 # of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted: Deep and intermediate well screen depths based on field screening lithology.

Replacement of MW10, MW11, MW17. Install shallow wells 21-28, Intermediate wells 29 and 30, Deep wells DW2 and DW3.

UST Permit #: 10628 Facility Name: Shreejakshani LLC

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 10 Days from approval Field Work Completion: 30 Days from approval

Report Submittal: 60 Days from approval # of Copies Provided to Property Owners: 1

Aquifer Characterization

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

Slug tests generate less waste.

Investigation Derived Waste Disposal

Soil: 8 Tons Purge Water: 200 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: _____

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

Name of Well Driller: _____

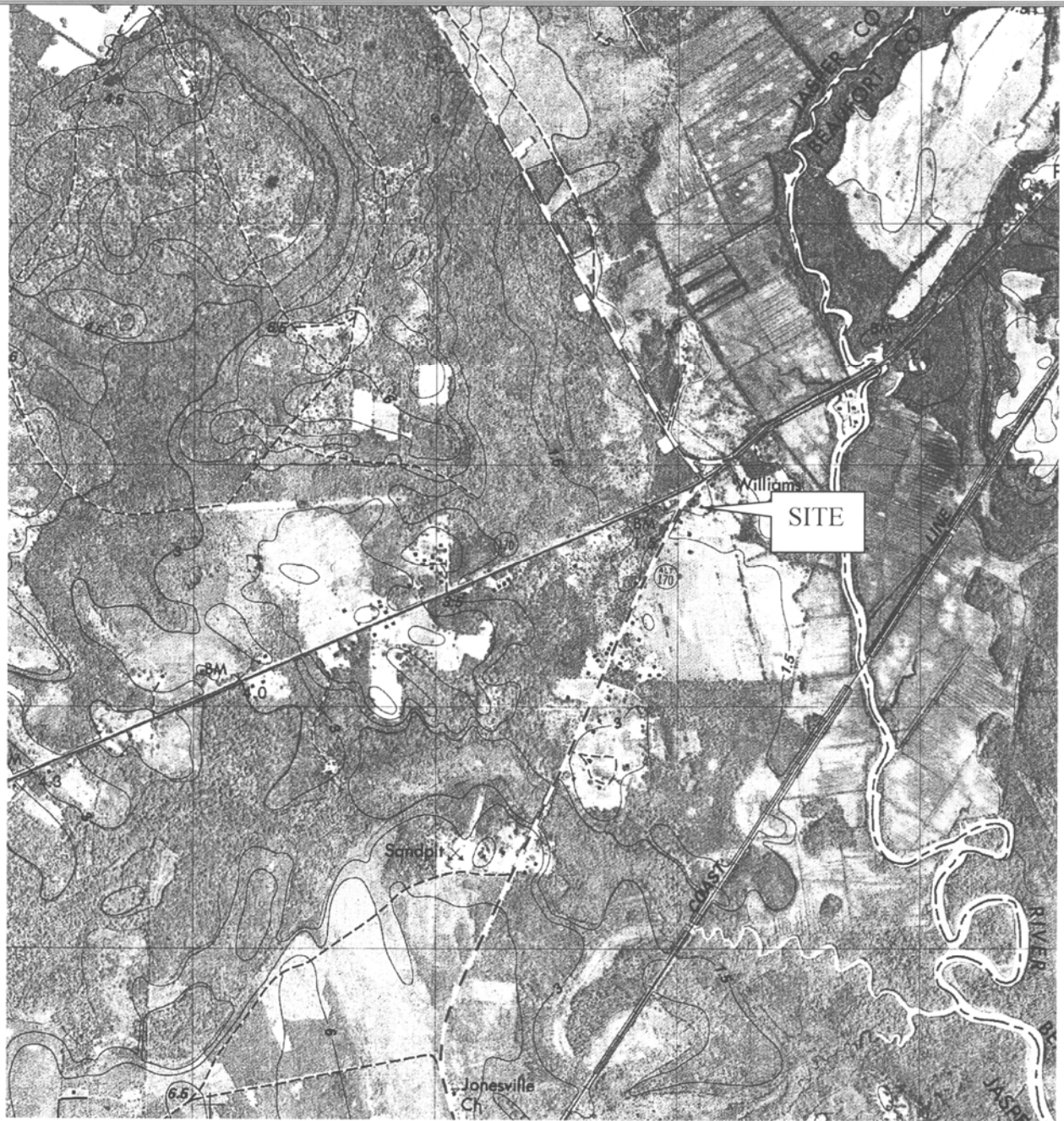
SCLLR Certification Number: _____

NA Other variations from ACQAP. Please describe below.

Attachments

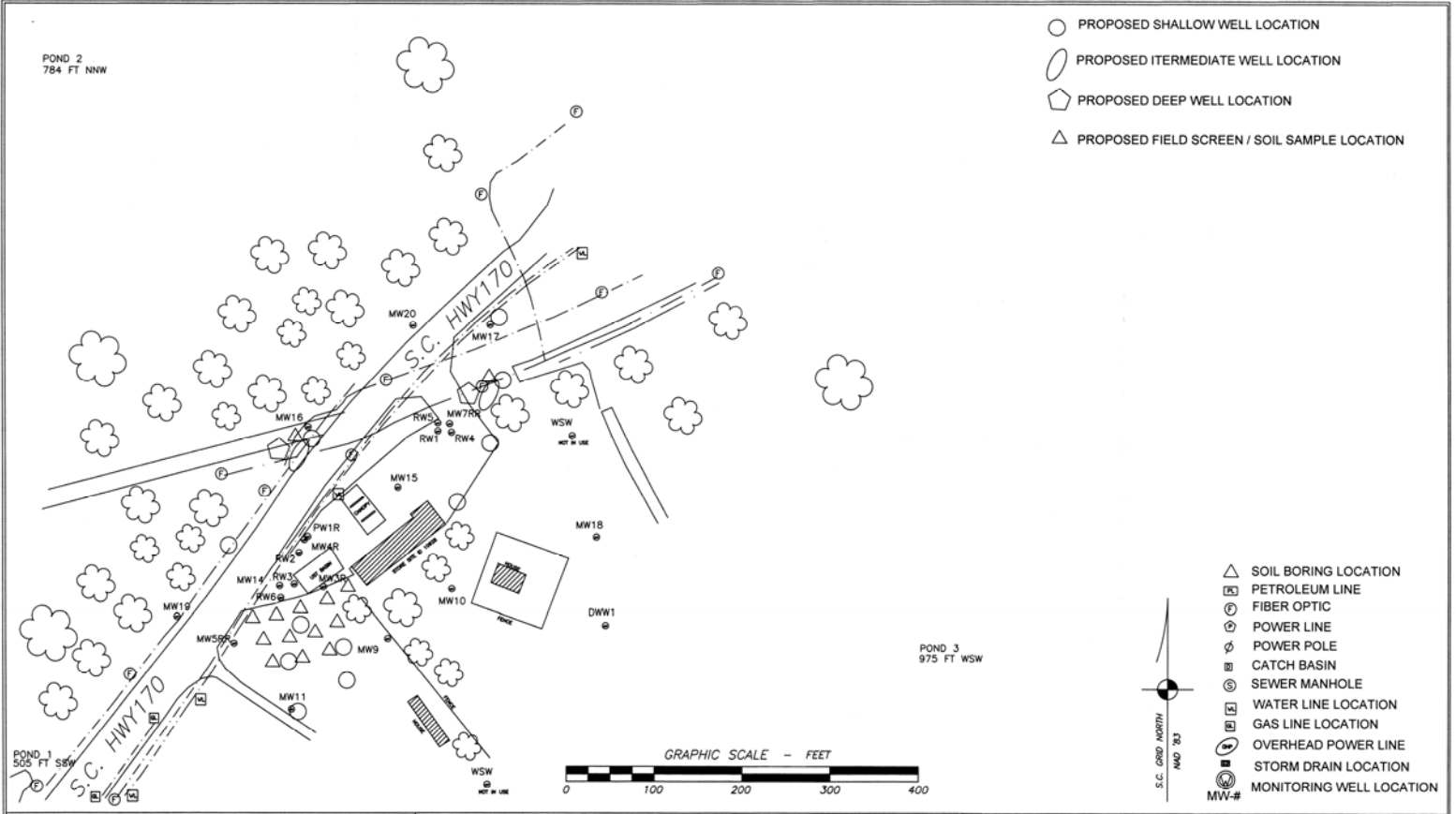
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

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



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

SAMPLING REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGE Moor, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2
SITE MAP



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: Okatie Mart				
UST Permit #: 10628	Cost Agreement #:			
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan	1	each	\$160.05	\$160.05
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
B. Receptor Survey *				
	1	each	\$587.92	\$587.92
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey Subsurface Geophysical Survey		each	\$1,109.68	\$0.00
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mob/Demob				
1. Equipment	1	each	\$1,088.34	\$1,088.34
2. Personnel	6	each	\$451.34	\$2,708.04
3. Adverse Terrain Vehicle		each	\$533.50	\$0.00
E. Soil Borings (hand auger)*				
	120	foot	\$5.34	\$640.80
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
1. Standard	190	per foot	\$16.01	\$3,041.90
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model				
		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less	310	per foot	\$3.31	\$1,026.10
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)	12	per foot	\$11.31	\$135.72
2. Water Table (drill rig) 2" Diameter	225	per foot	\$40.55	\$9,123.75
3. Telescoping	130	per foot	\$53.35	\$6,935.50
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
9. Rotasonic (2" diameter)		per foot	\$46.95	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00

J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge	16	per well	\$64.02	\$1,024.32
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate		sample	\$23.47	\$0.00
4. Groundwater No Purge or Duplicate or Grab	20	sample	\$29.88	\$597.60
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank	2	sample	\$26.25	\$52.50
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00
K. Laboratory Analyses-Groundwater				
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	36	per sample	\$130.17	\$4,686.12
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's	15	per sample	\$64.66	\$969.90
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011	35	per sample	\$48.23	\$1,688.05
8. EDB by EPA Method 8011 Rush		per sample	\$72.77	\$0.00
9. 8 RCRA Metals		per sample	\$67.65	\$0.00
10. TPH (9070)		per sample	\$43.75	\$0.00
11. PH		per sample	\$5.55	\$0.00
12. BOD		per sample	\$21.34	\$0.00
13. Ethanol		per sample	\$15.79	\$0.00
K. Analyses-Drinking Water				
14. BTEXNM+1,2 DCA (524.2)	4	per sample	\$132.36	\$529.44
15. 7-OXYGENATES & ETHANOL (8260B)	3	per sample	\$97.90	\$293.70
16. EDB (504.1)	3	per sample	\$84.83	\$254.49
17. RCRA METALS (200.8)		per sample	\$106.70	\$0.00
K. Analyses-Soil				
18. BTEX + Naphth.	14	per sample	\$68.29	\$956.06
19. PAH's	13	per sample	\$68.33	\$888.29
20. 8 RCRA Metals		per sample	\$60.18	\$0.00
21. TPH-DRO (3550C/8015C)		per sample	\$42.68	\$0.00
22. TPH- GRO (5035B/8015C)		per sample	\$38.37	\$0.00
23. Grain size/hydrometer	2	per sample	\$110.97	\$221.94
24. Total Organic Carbon	1	per sample	\$32.65	\$32.65
K. Analyses-Air				
25. BTEX + Naphthalene		per sample	\$230.47	\$0.00
K. Analyses-Free Phase Product				
26. Hydrocarbon Fuel Identification		per sample	\$380.92	\$0.00
L. Aquifer Characterization*				
1. Pumping Test		per hour	\$24.54	\$0.00
2. Slug Test	3	per test	\$203.80	\$611.40
3. Fractured Rock		per test	\$106.70	\$0.00

M. Free Product Recovery Rate Test*		each	\$40.55	\$0.00
N. Fate/Transport Modeling				
1. Mathematical Model		each	\$106.70	\$0.00
2. Computer Model		each	\$106.70	\$0.00
O. Risk Evaluation				
1. Tier I Risk Evaluation		each	\$320.10	\$0.00
2. Tier II Risk Evaluation		each	\$106.70	\$0.00
P. Subsequent Survey*	1	each	\$260.00	\$260.00
Q. Disposal (gallons or tons)*				
1. Wastewater	100	gallon	\$0.60	\$60.00
2. Free Product		gallon	\$0.53	\$0.00
3. Soil Treatment/Disposal	8	ton	\$64.02	\$512.16
4. Drilling fluids		gallon	\$0.45	\$0.00
R. Miscellaneous (attach receipts)				
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
T. Tier I Assessment (Use DHEC 3665 form)				
1. Southeast Region		standard	\$11,026.00	\$0.00
2. All Other Counties		standard	\$12,093.00	\$0.00
U. IGWA (Use DHEC 3666 form)				
1. Southeast Region		standard	\$3,803.00	\$0.00
2. All Other Counties		standard	\$4,123.00	\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFM Bid		\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)				
1. 8-hour Event*		per event	\$1,467.13	\$0.00
2. 24-hour Event*		per event	\$4,081.28	\$0.00
3. 48-hour Event*		per event	\$6,706.10	\$0.00
4. 96-hour Event*	3	per event	\$13,409.52	\$40,228.56
5. Off-gas Treatment 8 hour		per event	\$130.71	\$0.00
6. Off-gas Treatment 24 hour		per event	\$257.68	\$0.00
7. Off-gas Treatment 48 hour		per event	\$348.91	\$0.00
8. Off-gas Treatment 96 hour	3	per event	\$832.26	\$2,496.78
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$430.00	\$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$500.00	\$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,000.00	\$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,000.00	\$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.50	\$0.00
14. AFVR Site Reconnaissance	1	each	\$216.87	\$216.87
15. Additional Hook-ups		each	\$27.48	\$0.00
16. AFVR Effluent Disposal	30000	gallon	\$0.47	\$14,100.00
17. AFVR Mobilization/Demobilization	1	each	\$417.73	\$417.73
X. Granulated Activated Carbon (GAC) filter system installation & service:				
1. New GAC System Installation*		each	\$2,027.30	\$0.00
2. Refurbished GAC Sys. Install*		each	\$960.30	\$0.00
3. Filter replacement/removal*		each	\$373.45	\$0.00

4. GAC System removal, cleaning, & refurbishment*		each	\$293.43	\$0.00
5. GAC System housing*		each	\$266.75	\$0.00
Y. Well Repair				
1. Additional Copies of the Report Delivered		each	\$53.35	\$0.00
2. Repair 2x2 MW pad*		each	\$53.35	\$0.00
3. Repair 4x4 MW pad*		each	\$93.90	\$0.00
4. Replace well vault*		each	\$125.91	\$0.00
5. Replace well cover bolts		each	\$2.77	\$0.00
6. Replace locking well cap & lock		each	\$16.00	\$0.00
7. Replace/Repair stick-up*		each	\$142.98	\$0.00
8. Convert Flush-mount to Stick-up*		each	\$160.05	\$0.00
9. Convert Stick-up to Flush-mount*		each	\$138.71	\$0.00
10. Replace missing/illegible well ID plate		each	\$12.80	\$0.00
S. Report Prep & Project Management	12%	percent	\$96,546.68	\$11,585.60
TOTAL				\$108,132.28

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



SEP 20 2021



SHIRISHI SHAH
6194 S OKATIE HWY
HARDEEVILLE SC 29927

Re: **Additional Assessment Notice to Proceed**
Shreejakshani, LLC DBA Okatie Mart, 6194 South Okatie Highway, Hardeeville, SC
UST Permit #10628; CA #64377; UMW-28625
Release #1 reported April 28, 1995
Site Specific Work Plan received September 10, 2021
Jasper County

Dear Mr. Shah:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. The above referenced cost agreement number has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- Line item F.1 and I.3 decreased to 0: Field screening for and installation of proposed intermediate, deep, and select shallow wells will not be approved as part of this scope of work. Please see the attached site map for additional details.
- Line item H.2 decreased to 120: See above.
- Line item I.2 decreased to 60: See above.
- Line item J.1 decreased to 5: See above.
- Line item J.3 increased to 2: Including water supply well and duplicate sample.
- Line items K.2 and K.7 decreased to 27 and 26, respectively: See above.
- Line item K.5 decreased to 0.
- Line item K.15 increased to 4.
- Line items W.4, W.8, and W.16 decreased to 2, 2, and 20,000, respectively.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Assessment report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can 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. 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.

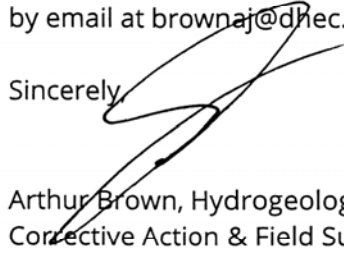
Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the UST Division for the cost to be paid. The UST Division 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 UST Division 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.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. 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 ninety (90) days. A 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 is below Risk-Based Screening Levels (RBSLs), 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 RBSLs.

On all correspondence regarding this site, please reference the UST Permit number above. Should you have any questions, please contact me by phone at (803) 898-0500, by fax at (803) 898-0673, or by email at brownaj@dhec.sc.gov.

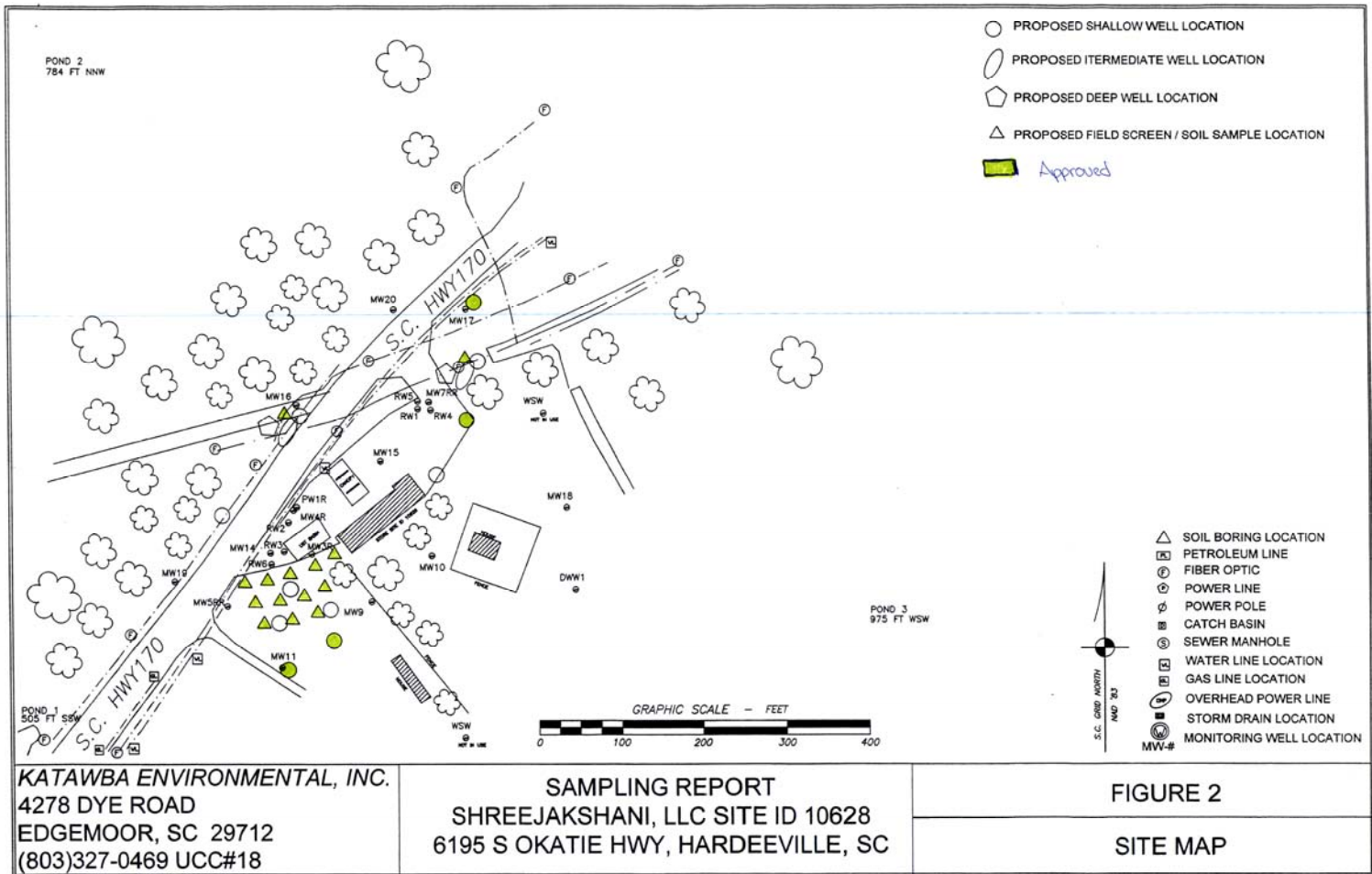
Sincerely



Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement
Monitoring Well Approval Form
Site Map

cc: Katawba Environmental, Inc., 4278 Dye Road, Edgemoor, SC 29712 (w/ enc)
Technical file (w/ enc)



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR, SC 29712
(803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2
SITE MAP



Monitoring Well Approval

Approval is granted to: Katawba Environmental, Inc.

On behalf of: Shirishi Shah

Facility: Shreejakshani, LLC DBA Okatie Mart, 6194 South Okatie Highway, Hardeeville, SC

UST Permit: #10628

County: Jasper

This approval is for the installation of thirteen temporary soil borings and four shallow monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

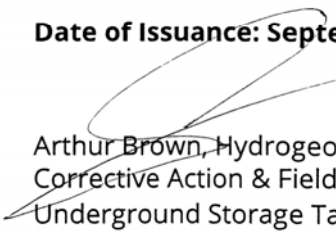
Please note that R.61-71 requires the following:

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 the UST Division shall be completed and submitted to the UST Division within 30 days after well completion or abandonment unless another schedule has been approved by the UST Division. 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 the UST Division within 30 days of receipt of laboratory results unless another schedule has been approved by the UST Division as required by R.61-71.H.1.d.
5. If any of the information provided to the UST Division changes, notification to Arthur Brown, the project manager (phone: (803) 898-0500 or email: brownaj@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. UST Division 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 the site during well installation.

Date of Issuance: September 13, 2021

Approval #: UMW-28625


Arthur Brown, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 64377

Facility: 10628 SHREEJAKSHANI LLC DBA OKATIE MART

BROWNAJ

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	\$160.050	160.05
B RECEPTOR SURVEY					
		B RECEPTOR SURVEY	1.0000	\$587.920	587.92
D MOB/DEMOB					
		1 EQUIPMENT	1.0000	\$1,088.340	1,088.34
		2 PERSONNEL	6.0000	\$451.340	2,708.04
E SOIL BORINGS HAND AUGER					
		E SOIL BORINGS (HAND AUGER)	120.0000	\$5.340	640.80
H ABANDONMENT					
		1 ABANDONMENT 2" DIA OR LESS	120.0000	\$3.310	397.20
I WELL INSTALLATION					
		1 WATER TABLE (HAND AUGER)	12.0000	\$11.310	135.72
		2 WATER TABLE DRILL RIG 2" DIA	60.0000	\$40.550	2,433.00
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	5.0000	\$64.020	320.10
		3 WATER SUPPLY SAMPLE/ DUPLICATE	2.0000	\$23.470	46.94
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	20.0000	\$29.880	597.60
		8 FIELD BLANK	2.0000	\$26.250	52.50
K ANALYSES					
DW DRINKING WATER		14 BTEXNM+1,2 DCA (524.2) WSW	4.0000	\$132.360	529.44
		15 OXYGENATES & ETHANOL 8260B WSW	4.0000	\$97.900	391.60
		16 EDB (504.1) WSW	3.0000	\$84.830	254.49
GW GROUNDWATER		1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	27.0000	\$130.170	3,514.59
		7 EDB BY EPA 8011	26.0000	\$48.230	1,253.98
SOIL SOIL		18 BTEX+NAPHTHALENE	14.0000	\$68.290	956.06
		23 GRAIN SIZE HYDROMETER	2.0000	\$110.970	221.94
		24 TOTAL ORGANIC CARBON	1.0000	\$32.650	32.65
L AQUIFER CHARACTERIZATION					
		2 SLUG TEST	3.0000	\$203.800	611.40
P SUBSEQUENT SURVEY					
		P SUBSEQUENT SURVEY	1.0000	\$260.000	260.00
Q DISPOSAL					
		1 WASTEWATER	100.0000	\$0.600	60.00
		3 SOIL TREATMENT DISPOSAL	8.0000	\$64.020	512.16
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$56,284.680	6,754.16
W AFVR					
		14 AFVR SITE RECONNAISSANCE	1.0000	\$216.870	216.87
		16 AFVR EFFLUENT DISPOSAL	20,000.0000	\$0.470	9,400.00
		17 AFVR MOB - DEMOB	1.0000	\$417.730	417.73
		4 96 HOUR EVENT	2.0000	\$13,409.520	26,819.04
		8 OFF GAS TREATMENT 96 HOUR	2.0000	\$832.260	1,664.52
Total Amount					63,038.84



Katawba Environmental, Inc.

November 14, 2021

Mr. Arthur Brown
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

RECEIVED

NOV 19 2021

UST DIVISION



**RE: AFVR REPORT
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628 CA #64377
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA**

Dear Mr. Brown:

Katawba Environmental, Inc. (Katawba) has prepared this AFVR Report for the above-referenced facility for your review. This event was conducted in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated September 20, 2021.

It is recommended that multiple AFVR events be conducted at the site as the next appropriate scope of work. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant

AFVR Report
Shreejakshani
DBA Okatie Mart
6195 S. Okatie Hwy.
Hardeeville, SC
UST Permit #10628



A handwritten signature in black ink, appearing to read "Alex W. Amos".

Alex W. Amos, CEO, PG
Senior Consultant

1.0 INTRODUCTION

Mr. Shirishi Shah of Okatie Mart (Site ID 10628) has retained Katawba Environmental, Inc. (Katawba) to conduct this AFVR event at the subject site. The site is located at 6194 South Okatie Highway, Hardeeville, South Carolina. A United States Geological Survey map is provided in Appendix A as Figure 1. A comprehensive map of the site is provided as Figure 2. The site currently operates as a convenience store that retails petroleum products.

This AFVR event was implemented in response to SCDHEC correspondence dated September 20, 2021. The scope of work was to perform two 96 hour events on RW-3 and RW-6 / RW-1, RW-4 and RW-5. At the time of the initial site reconnaissance RW-3 contained 4.89 feet of free product and RW-6 contained 1.30 feet of free product. Mr. Alex W. Amos PG, of Katawba, prepared this AFVR Report. The following details the findings during this scope of work:

- The first 96 hour AFVR event was conducted on October 21 to October 25, 2021. Free product was present in wells RW-3 at 4.89 feet and RW-6 at 1.30 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 187 gallons of free product was removed as liquid. 348.24 pounds of carbon was recovered as emissions with 403 pounds of gasoline vapor recovered as emissions. 66.36 gallons of gasoline vapor were recovered as emissions. Approximately 5218 gallons of fuel/water mixture were removed from RW-3 and RW-6.
- The second 96 hour AFVR event was conducted on October 25 to October 29, 2021. Free product was present in wells RW-1, RW-4 and RW-5 at 0.00 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 5 gallons of free product was removed as liquid. 117.98 pounds of carbon was recovered as emissions with 136.54 pounds of gasoline vapor recovered as emissions. 22.48 gallons of gasoline vapor were recovered as emissions. Approximately 7105 gallons of fuel/water mixture were removed from RW-1, RW-4 and RW-5.

2.0 FIRST AFVR EVENT

On October 21, 2021 an AFVR event was conducted by Katawba Environmental, Inc. on wells RW-3 and RW-6. Mr. Billy Morris and Dan Arbegast of Katawba were present during the event. Site conditions were sunny with a temperature of 67 degrees. Prior to the event and after the event groundwater elevations in RW-3 and RW-6 were measured. Free product was present in RW-3 at 4.89 feet and RW-6 at 1.30 feet before the event. After the event free product was present in RW-3 and RW-6 at 0.0 feet. Approximately 187 gallons of product accumulated in the tanker after the AFVR was completed. 348.24 pounds of carbon were recovered as emissions with 403 pounds of gasoline vapor recovered as emissions. 66.36 gallons of gas were recovered as emissions. Approximately 5218 gallons of fuel/water mixture were removed from the AFVR wells and disposed of at TK Tank Services, 425 Boulevard Road, Sumter, SC 29150. Off gas treatments were completed by use of granular carbon filtration of stack effluent during the event.

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-3	RW-6	MW-3R	MW-5RR	MW-14	
8:00D1	0.0 / WL 5.20	0 / WL 2.00	0 / WL 3.51	0 / WL 2.63	0 / WL 0.83	
8:30	17	17	0	0	0	
9:00	17	17	0	0	0	
9:30	17	17	0	0	0	
10:00	17	17	0	0	0	
10:30	17	17	0	0	0	
11:00	17	17	0	0	0	
11:30	17	17	0	0	1	
12:00	17	17	0	0	2	
12:30	17	17	0	0	9	
13:00	17	17	0	0	10	
13:30	17	17	0	0	16	
14:00	17	17	0	0	17	
14:30	17	17	0	0	17	
15:00	17	17	0	0	17	
15:30	17	17	3	0.5	17	
16:00	17	17	3	0.5	17	
16:30	17	17	3	9	17	
17:00	17	17	3	9	17	
18:00	17	17	3	8	17	
19:00	17	17	3	7	17	
20:00	17	17	3	7	17	
21:00	17	17	3	7	17	
22:00	17	17	3	6	17	
23:00	17	17	3	6	17	
24:00	17	17	3	6	17	
8:00 D2	17	17	2	3	1.5	
9:00	17	17	2	4	2	
10:00	17	17	2	5	5	
11:00	17	17	2	6	7	

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-3	RW-6	MW-3R	MW-5RR	MW-14	
12:00 D2	17	17	2	10	7	
13:00	17	17	1	12	7	
14:00	17	17	1	12	7	
15:00	17	17	1	12	7	
16:00	17	17	1	12	5	
17:00	17	17	1	12	5	
18:00	17	17	1	10	5	
19:00	17	17	1	10	6	
20:00	17	17	1	10	7	
21:00	17	17	1	9	7	
22:00	17	17	1	9	7	
23:00	17	17	1	4	7	
24:00	17	17	1	4	7	
8:00 D3	17	17	2	6	8	
9:00	17	17	2	7	9	
10:00	17	17	4	7	9	
11:00	17	17	4	7	10	
12:00	17	17	4	7	12	
13:00	17	17	4	6	11	
14:00	17	17	4	7	11	
15:00	17	17	4	7	11	
16:00	17	17	4	7	11	
17:00	17	17	4	6	11	

Time	RW-3	RW-6	MW-3R	MW-5RR	MW-14	
18:00	17	17	4	2	11	
19:00	17	17	4	2	10	
20:00	17	17	4	2	11	
21:00	17	17	4	3	10	
22:00	17	17	3	2	15	
23:00	17	17	3	3	10	
24:00	17	17	3	3	11	
8:00 D4	17	17	2	5	12	
9:00	17	17	2	5	13	
10:00	17	17	2	11	15	
11:00	17	17	2	13	17	
12:00	17	17	2	13	15	
13:00	17	17	2	13	16	
14:00	17	17	2	15	15	
15:00	17	17	2	15	14	
16:00	17	17	2	14	14	
17:00	17	17	2	10	14	
18:00	17	17	2	10	13	
19:00	17	17	2	10	14	
20:00	17	17	2	10	15	
21:00	17	17	2	10	14	
22:00	17	17	2	10	13	
23:00	17	17	2	10	13	
24:00	17	17	2	10	13	
8:00 D5	0.0 / WL 11.47	0 / WL 8.84	2 / WL 3.47	10 / WL 1.43	14 / WL 4.40	

TABLE 2 DEPTH OF FREE PRODUCT						
Well/Date	RW-3	RW-6		MW-3R	MW-5RR	MW-14
Start 10/21/21	4.89	1.30		1.31	0.00	0.00
Finish 10/25/21	0.00	0.00		1.06	0.00	0.00

OFFGAS / STINGER DEPTH					
Time	OVA	OFF GAS OVA	STINGER DEPTH RW-3	STINGER DEPTH RW-6	
8:00 D1	5000	0	1	1	
8:30	5000	0	1.5	1.5	
9:00	5000	0	2	2	
9:30	5000	0	2.5	2.5	
10:00	5000	0	3	3	
10:30	5000	0	4	4	
11:00	5000	0	5	5	
11:30	5000	0	6	6	
12:00	5000	0	7	7	
12:30	5000	0	8	8	
1:00	5000	0	9	9	
1:30	5000	0	10	10	
2:00	5000	0	10	10	
2:30	5000	0	10	10	
3:00	5000	1	10	10	
3:30	5000	14	10	10	
4:00	5000	54	10	10	
4:30	5000	121	10	10	
5:00	5000	133	10	10	
6:00	5000	137	10	10	
7:00	5000	151	10	10	
8:00	5000	157	10	10	
9:00	5000	162	10	10	
10:00	5000	168	10	10	
11:00	5000	814	10	10	
12:00	5000	876	10	10	
8:00 D2	5000	Carb Change	10	10	
9:00	5000	0	10	10	
10:00	5000	0	10	10	
11:00	5000	0	10	10	
12:00	5000	0	10	10	
1:00	5000	0	10	10	
2:00	5000	0	10	10	
3:00	5000	0	10	10	
4:00	5000	23	10	10	
5:00	5000	26	10	10	
6:00	5000	129	10	10	

Time	OVA	OFF GAS OVA	STINGER DEPTH RW-3	STINGER DEPTH RW-6	
7:00	5000	99	10	10	
8:00	5000	136	10	10	
9:00	5000	142	10	10	
10:00	5000	127	10	10	
11:00	5000	162	10	10	
12:00	5000	179	10	10	
8:00 D3	5000	125	10	10	
9:00	5000	205	10	10	
10:00	5000	238	10	10	
11:00	5000	284	10	10	
12:00	5000	348	10	10	
1:00	5000	687	10	10	
2:00	5000	679	10	10	
3:00	5000	747	10	10	
4:00	5000	748	10	10	
5:00	5000	535	10	10	
6:00	5000	291	10	10	
7:00	5000	239	10	10	
8:00	5000	243	10	10	
9:00	5000	226	10	10	
10:00	5000	204	10	10	
11:00	5000	316	10	10	
12:00	5000	429	10	10	
8:00 D4	5000	Carb add	10	10	
9:00	5000	103	10	10	
10:00	5000	146	10	10	
11:00	5000	172	10	10	
12:00	5000	485	10	10	
1:00	5000	616	10	10	
2:00	5000	935	10	10	
3:00	5000	944	10	10	
4:00	5000	845	10	10	
5:00	5000	325	10	10	
6:00	5000	254	10	10	
7:00	5000	178	10	10	
8:00	5000	163	10	10	
9:00	5000	198	10	10	
10:00	5000	151	10	10	
11:00	5000	153	10	10	
12:00	5000	148	10	10	

2.1 SECOND AFVR EVENT

On October 25, 2021 an AFVR event was conducted by Katawba Environmental, Inc. on wells RW-1, RW-4 and RW-5. Mr. Billy Morris and Dan Arbegast of Katawba were present during the event. Site conditions were sunny with a temperature of 58 degrees. Prior to the event and after the event groundwater elevations in RW-1, RW-4 and RW-5 were measured. Free product was present in RW-1, RW-4 and RW-5 at 0.00 feet before the event. After the event free product was present in RW-1, RW-4 and RW-5 at 0.0 feet. Approximately 5 gallons of product accumulated in the tanker after the AFVR was completed. 117.98 pounds of carbon were recovered as emissions with 136.54 pounds of gasoline vapor recovered as emissions. 22.48 gallons of gas were recovered as emissions. Approximately 7105 gallons of fuel/water mixture were removed from the AFVR wells and disposed of at TK Tank Services, 425 Boulevard Road, Sumter, SC 29150. Off gas treatments were completed by use of granular carbon filtration of stack effluent during the event.

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
8:00D1	0.0 / WL 5.15	0 / WL 6.03	0 / WL 5.60	0 / WL 4.34	0 / WL 6.53	0 / WL 8.97
8:30	17	17	17	0	0	0
9:00	17	17	17	0	0	0
9:30	17	17	17	0	0	0
10:00	17	17	17	0	0	0
10:30	17	17	17	0	0	0
11:00	17	17	17	0	0	0
11:30	17	17	17	0	0	0
12:00	17	17	17	1	0	0
12:30	17	17	17	2	0	0
13:00	17	17	17	3	0	0
13:30	17	17	17	4.5	0	0
14:00	17	17	17	9	0	0
14:30	17	17	17	9	0	0
15:00	17	17	17	12	0	0
15:30	17	17	17	12	0	0
16:00	17	17	17	15	0	1
16:30	17	17	17	15	0	1
17:00	17	17	17	15	0	1
18:00	17	17	17	15	0	1
19:00	17	17	17	15	0	1
20:00	17	17	17	15	0	1
21:00	17	17	17	15	0	1
22:00	17	17	17	15	0	1
23:00	17	17	17	15	0	1
24:00	17	17	17	15	0	1
8:00 D2	17	17	17	15	0	1
9:00	17	17	17	15	0	1
10:00	17	17	17	15	0	1
11:00	17	17	17	15	0	1

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
12:00 D2	17	17	17	10	0	1
13:00	17	17	17	11	0	1
14:00	17	17	17	12	0	1
15:00	17	17	17	10	0	1
16:00	17	17	17	14	0	1
17:00	17	17	17	15	0	1
18:00	17	17	17	15	0	1
19:00	17	17	17	15	0	1
20:00	17	17	17	15	0	1
21:00	17	17	17	15	0	1
22:00	17	17	17	15	0	1
23:00	17	17	17	15	0	1
24:00	17	17	17	15	0	1
8:00 D3	17	17	17	12	0	0
9:00	17	17	17	11	0	0
10:00	17	17	17	8	0	0
11:00	17	17	17	10	0	0
12:00	17	17	17	10	1.5	1
13:00	19	19	19	15	1.5	1
14:00	20	20	20	15	1.5	1.5
15:00	20	20	20	15	2	1.5
16:00	20	20	20	15	2	1.5
17:00	18	18	18	15	2	1

Time	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
18:00	17	17	17	15	2	1
19:00	17	17	17	15	1	1
20:00	17	17	17	15	1	1
21:00	17	17	17	15	1	1
22:00	17	17	17	15	1	1.5
23:00	17	17	17	15	1	1.5
24:00	17	17	17	15	1	2
8:00 D4	18	18	18	15	2	1.5
9:00	18	18	18	15	2	1.5
10:00	18	18	18	13	2	1
11:00	19	19	19	13	2	1
12:00	18	18	18	14	2	1
13:00	19	19	19	15	1.5	1
14:00	19	19	19	16	1.5	1
15:00	19	19	19	14	1.5	1
16:00	18	18	18	14	1	1
17:00	18	18	18	13	1	1
18:00	18	18	18	13	1	1
19:00	18	18	18	14	1	1
20:00	18	18	18	15	1	1
21:00	18	18	18	15	1	1
22:00	18	18	18	15	1	1
23:00	18	18	18	15	1	1
24:00	18	18	18	15	1	1
8:00 D5	18 / WL 8.53	18 / WL 5.63	18 / WL 5.83	15 / WL 5.18	1 / WL 7.00	1 / WL 8.84

TABLE 2 DEPTH OF FREE PRODUCT						
Well/Date	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
Start 10/25/21	0.00	0.00	0.00	0.01	0.00	0.00
Finish 10/29/21	0.00	0.00	0.00	0.00	0.00	0.00

OFFGAS / STINGER DEPTH					
Time	OVA	OFF GAS OVA	STINGER DEPTH RW-1	STINGER DEPTH RW-4	STINGER DEPTH RW-5
8:00 D1	94	0	5	5	5
8:30	116	0	5.5	5.5	5.5
9:00	116	0	6	6	6
9:30	142	0	6.5	6.5	6.5
10:00	137	0	7	7	7
10:30	244	0	7.5	7.5	7.5
11:00	309	0	8	8	8
11:30	396	0	8.5	8.5	8.5
12:00	185	0	9	9	9
12:30	114	0	9.5	9.5	9.5
1:00	121	0	10	10	10
1:30	142	0	10	10	10
2:00	208	0	10	10	10
2:30	179	0	10	10	10
3:00	185	0	10	10	10
3:30	982	0	10	10	10
4:00	1074	0	10	10	10
4:30	944	0	10	10	10
5:00	932	0	10	10	10
6:00	2059	0	10	10	10
7:00	4727	0	10	10	10
8:00	5000	0	10	10	10
9:00	2530	0	10	10	10
10:00	2174	0	10	10	10
11:00	1376	0	10	10	10
12:00	1107	0	10	10	10
8:00 D2	495	0	10	10	10
9:00	621	1	10	10	10
10:00	497	1	10	10	10
11:00	1027	0	10	10	10
12:00	1229	0	10	10	10
1:00	1974	0	10	10	10
2:00	1756	0	10	10	10
3:00	1760	0	10	10	10
4:00	1623	0	10	10	10
5:00	1699	0	10	10	10
6:00	1520	0	10	10	10

Time	OVA	OFF GAS OVA	STINGER DEPTH RW-1	STINGER DEPTH RW-4	STINGER DEPTH RW-5
7:00	1521	0	10	10	10
8:00	1538	0	10	10	10
9:00	1617	0	10	10	10
10:00	1594	0	10	10	10
11:00	1583	0	10	10	10
12:00	1542	0	10	10	10
8:00 D3	1058	0	10	10	10
9:00	1025	0	10	10	10
10:00	2368	1	10	10	10
11:00	5000	1	10	10	10
12:00	5000	4	10	10	10
1:00	5000	6	10	10	10
2:00	2570	8	10	10	10
3:00	2857	21	10	10	10
4:00	2179	23	10	10	10
5:00	2430	27	10	10	10
6:00	2597	29	10	10	10
7:00	2890	35	10	10	10
8:00	2373	38	10	10	10
9:00	2381	30	10	10	10
10:00	2376	59	10	10	10
11:00	2389	68	10	10	10
12:00	2384	73	10	10	10
8:00 D4	1056	Carb Change	10	10	10
9:00	1123	0	10	10	10
10:00	1149	0	10	10	10
11:00	1366	0	10	10	10
12:00	1328	0	10	10	10
1:00	1313	0	10	10	10
2:00	1419	0	10	10	10
3:00	1495	0	10	10	10
4:00	1574	0	10	10	10
5:00	1497	0	10	10	10
6:00	1416	0	10	10	10
7:00	1425	0	10	10	10
8:00	1398	0	10	10	10
9:00	1486	0	10	10	10
10:00	1421	0	10	10	10
11:00	1425	0	10	10	10
12:00	1437	0	10	10	10

3.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this AFVR event was to evacuate petroleum impacted groundwater from the area of highest concentration and dispose of the material at a regulated facility. The following conclusions are based upon data obtained during this AFVR event:

- The first 96 hour AFVR event was conducted on October 21 to October 25, 2021. Free product was present in wells RW-3 at 4.89 feet and RW-6 at 1.30 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 187 gallons of free product was removed as liquid. 348.24 pounds of carbon was recovered as emissions with 403 pounds of gasoline vapor recovered as emissions. 66.36 gallons of gasoline vapor were recovered as emissions. Approximately 5218 gallons of fuel/water mixture were removed from RW-3 and RW-6.
- The second 96 hour AFVR event was conducted on October 25 to October 29, 2021. Free product was present in wells RW-1, RW-4 and RW-5 at 0.00 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 5 gallons of free product was removed as liquid. 117.98 pounds of carbon was recovered as emissions with 136.54 pounds of gasoline vapor recovered as emissions. 22.48 gallons of gasoline vapor were recovered as emissions. Approximately 7105 gallons of fuel/water mixture were removed from RW-1, RW-4 and RW-5.

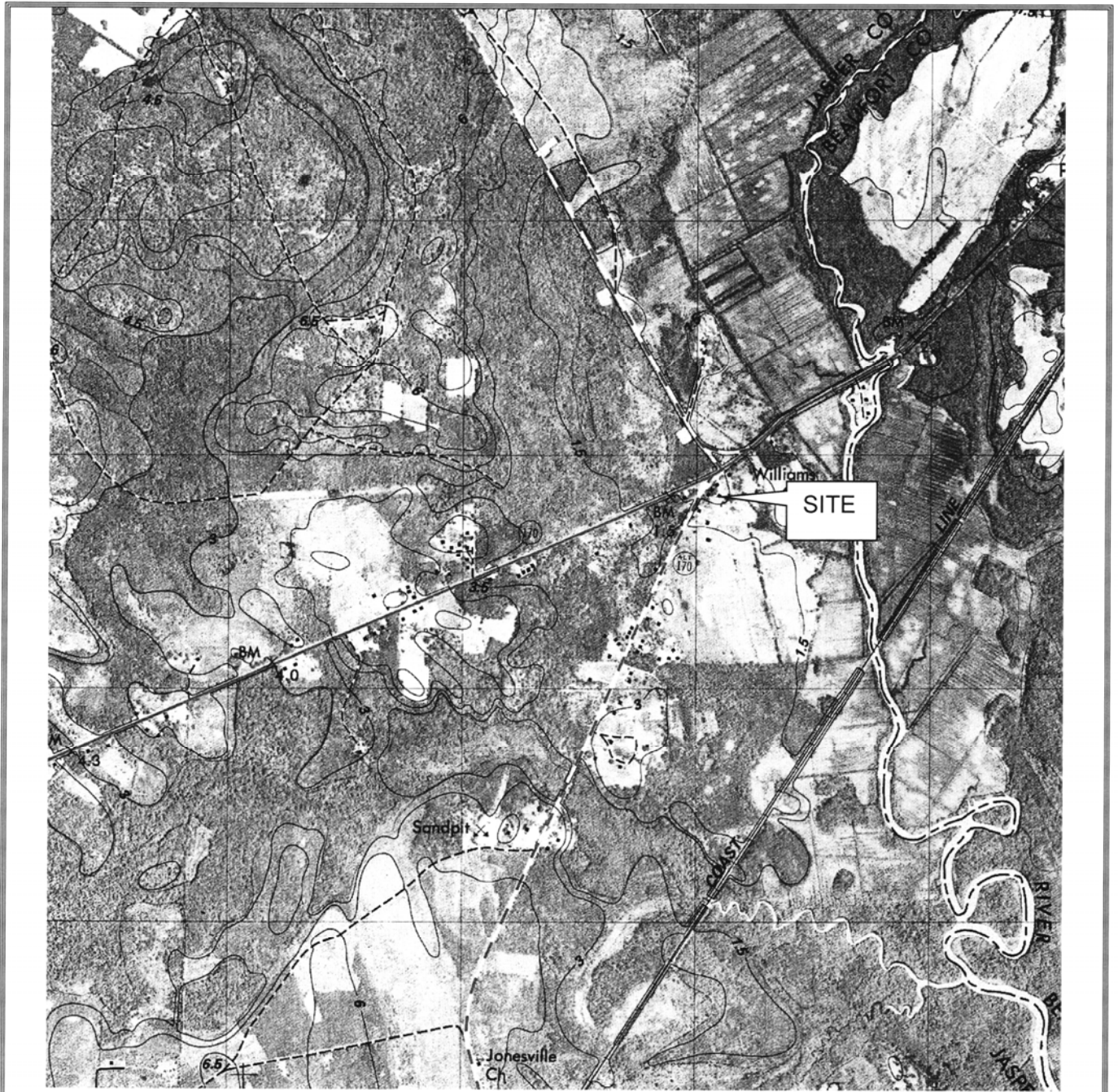
AFVR PROJECT SUMMARY TABLE					
AFVR	Carbon recovered	Gas vapor recovered	Gas gallon recovered emissions	Total gallons of liquid removed	Free product gallons
Date 10/25/21	348.24	403	66.36	5218	187
Date 10/29/21	117.98	136.54	22.48	7105	5
Total	466.22	539.54	88.84	12323	192

It is recommended that additional AFVR events be conducted at the site to reduce petroleum hydrocarbon concentrations in the aquifer.

4.0 REFERENCES

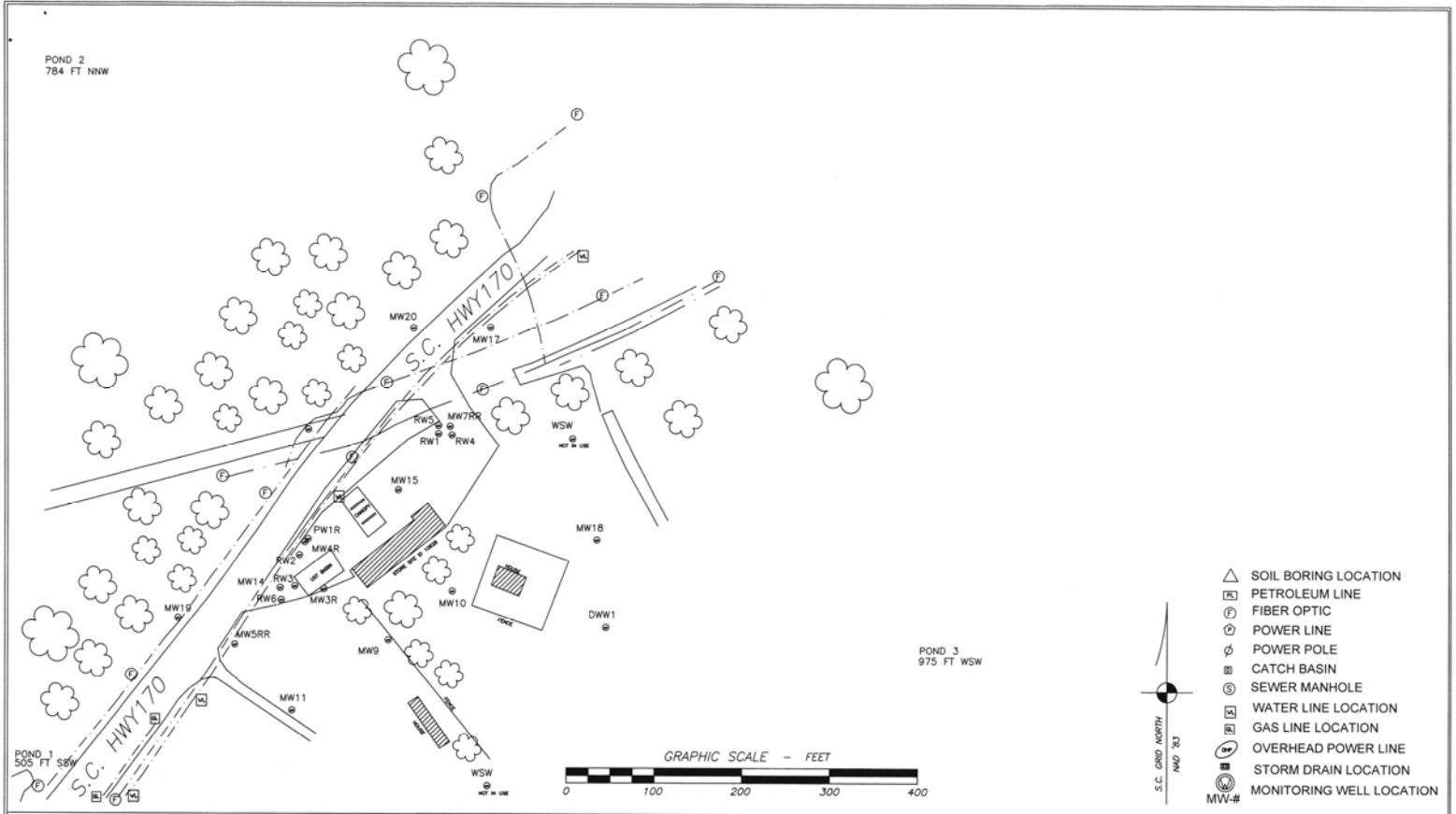
Brown, Arthur. SCDHEC Letter to Amos September 20, 2021

APPENDIX A
FIGURES



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

AFVR REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEWOOD, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2

SITE MAP

APPENDIX B
AFVR DATA

AFVR Field Emissions Data

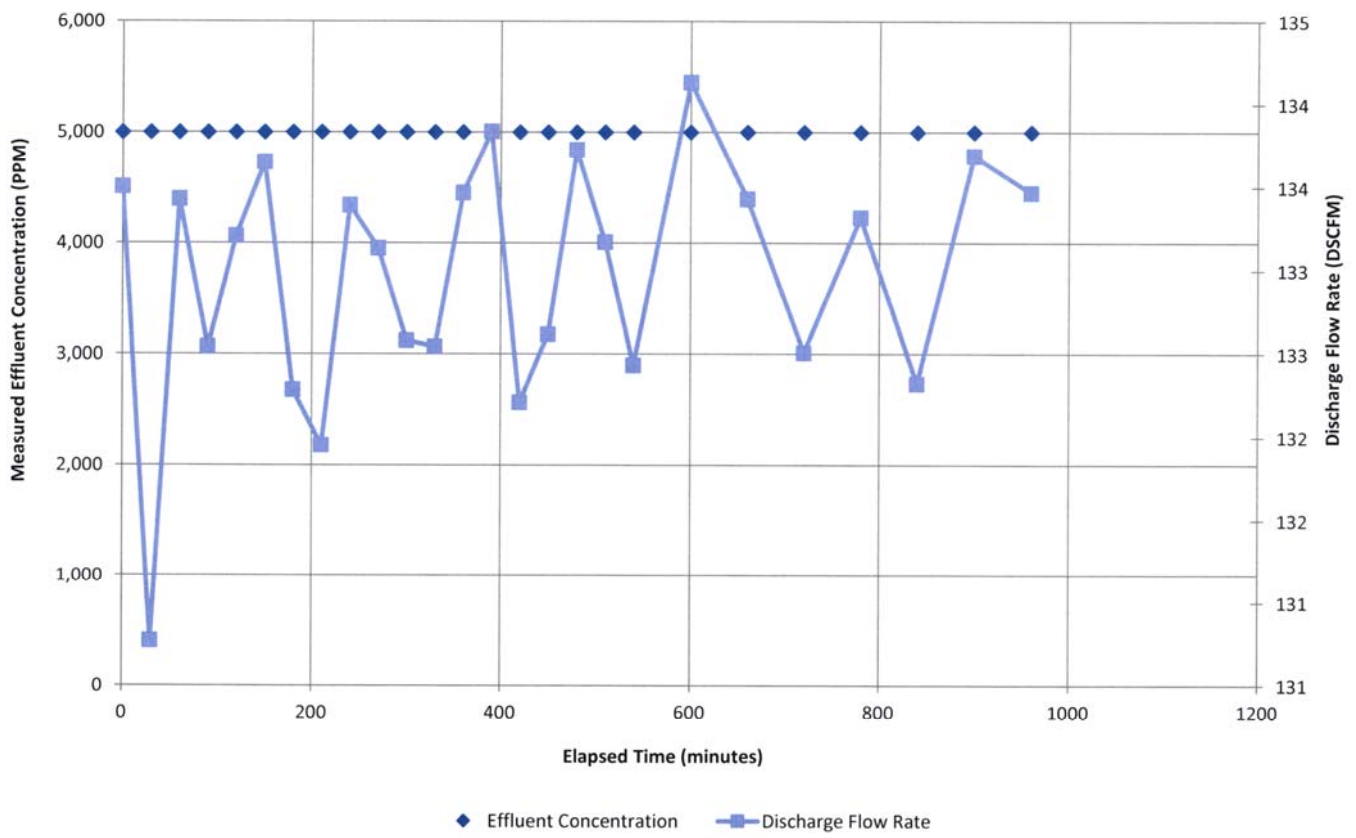
Date: 10/21/2021		Average Depth to Ground Water		3													
Site Name: Okatie Mart		Vacuum Contractor		Soil Type													
SCDHEC Site ID #: 10628		Vacuum Truck Specification (CFM @ mm Hg)		Clay													
Well ID #: RWD / RW6		Elapsd Flow (min) (DSCFM)		Kalawba 250822													
Date	Time	Vacuum (in Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsd Flow (min)	PPM (DSCFM)	PPMc	Ccm (mg/dsm3)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)	
10/21/2021	8:00	17	3,614	3	180.0	99.0	5,000	4	0	133.50	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	8:30	17	3,540	3	180.0	99.0	5,000	4	30	130.77	5480.7	21922.7	10938.6	6.83E-04	5.36	6.20	1.02
10/21/2021	9:00	17	3,612	3	180.0	99.0	5,000	4	60	133.43	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	9:30	17	3,588	3	180.0	99.0	5,000	4	90	132.54	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.03
10/21/2021	10:00	17	3,606	3	180.0	99.0	5,000	4	120	133.21	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/21/2021	10:30	17	3,618	3	180.0	99.0	5,000	4	150	133.65	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/21/2021	11:00	17	3,581	3	180.0	99.0	5,000	4	180	132.29	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/21/2021	11:30	17	3,572	3	180.0	99.0	5,000	4	210	131.95	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/21/2021	12:00	17	3,611	3	181.0	99.0	5,000	4	240	133.39	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	12:30	17	3,604	3	180.0	99.0	5,000	4	270	133.14	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/21/2021	13:00	17	3,589	3	180.0	83.0	5,000	4	300	132.58	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/21/2021	13:30	17	3,588	3	181.0	60.0	5,000	4	330	132.54	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.03
10/21/2021	14:00	17	3,613	3	180.0	61.0	5,000	4	360	133.47	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	14:30	17	3,623	3	180.0	62.0	5,000	4	390	133.84	5480.7	21922.7	10938.6	6.83E-04	5.48	6.35	1.05
10/21/2021	15:00	17	3,579	3	180.0	61.0	5,000	4	420	132.21	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/21/2021	15:30	17	3,590	3	180.0	64.0	5,000	4	450	132.62	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/21/2021	16:00	17	3,620	3	180.0	62.0	5,000	4	480	133.73	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/21/2021	16:30	17	3,605	3	180.0	59.0	5,000	4	510	133.17	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/21/2021	17:00	17	3,585	3	180.0	58.0	5,000	4	540	132.43	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/21/2021	18:00	17	3,631	3	180.0	58.0	5,000	4	600	134.13	5480.7	21922.7	10938.6	6.83E-04	5.50	6.36	1.05
10/21/2021	19:00	17	3,612	3	180.0	58.0	5,000	4	660	133.43	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	20:00	17	3,587	3	180.0	58.0	5,000	4	720	132.51	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/21/2021	21:00	17	3,609	3	180.0	56.0	5,000	4	780	133.32	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/21/2021	22:00	17	3,582	3	180.0	57.0	5,000	4	840	132.32	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/21/2021	23:00	17	3,619	3	180.0	56.0	5,000	4	900	133.69	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/21/2021	0:00	17	3,613	3	180.0	56.0	5,000	4	960	133.47	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
Average		17	3,600	3	180	57	5,000	4		132.97	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 87.18
Total Pounds of Gasoline Vapor Recovered as Emissions: 100.89
Total Gallons of Gasoline Recovered as Emissions: 16.61
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) * (1-Bws) * velocity * (Pipe ID sq ft) / (528 ft * (Temp + 460)) (Listed As Flow Above)
Bws = (B_{wsu} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + B_{wsu} / 18 lb-mole H₂O]
PPMd = (PPMw) / (1-Bws) PPMc = (PPM) * K
Cc = Ccm * (62.4) * E * 9 * 10⁻⁶ / (mg-ft³) PMRg = (PMRc) * (Mg/Mc)
Bgs = below top of casing
Bws = (B_{wsu} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + B_{wsu} / 18 lb-mole H₂O]
Qstd = (60 sec/min) * (1-Bws) * (V) * (A) * (Temp deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMw = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dm³/10³ mg-mole, mass to volume conversion factor at STP
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstd = flow at DSCFM
Ccm = PPMc * (M/Mc)
PMRc = Cc * (Qstd) * (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

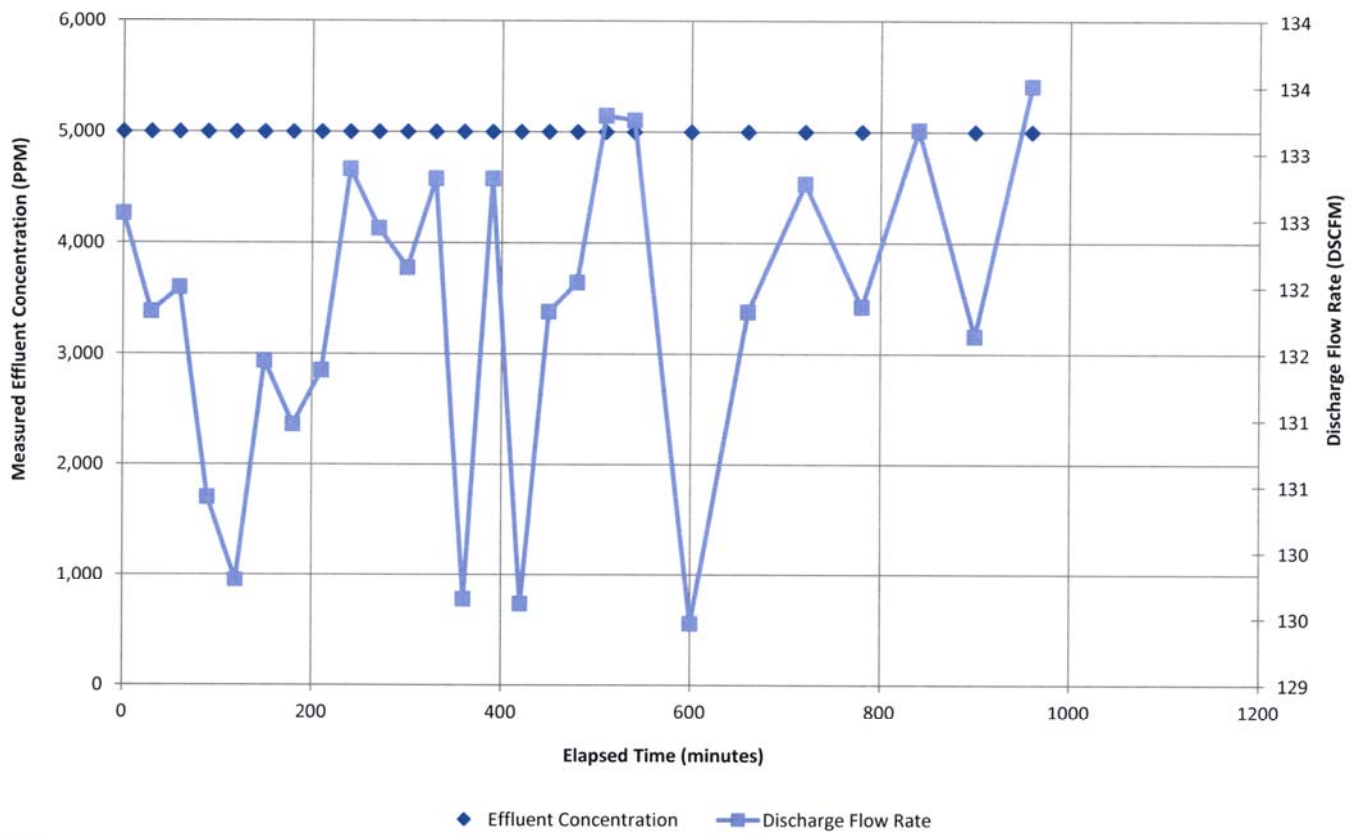
Date: 10/22/2021		Average Depth to Ground Water		3													
Site Name: Okatie Mart		Soil Type		Clay													
SCDHEC Site ID #: 10628		Vacuum Contractor		Katawba													
Well ID #: RW3 / RW6		Vacuum Truck Specification (CFM @ mm Hg)		250@25													
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	DSCFM	PPMd	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/22/2021	8:00	17	3,604	3	178.0	99.0	5,000	4	0	132.55	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/22/2021	8:30	17	3,584	3	178.0	99.0	5,000	4	30	131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	9:00	17	3,589	3	178.0	99.0	5,000	4	60	132.00	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/22/2021	9:30	17	3,546	3	178.0	99.0	5,000	4	90	130.42	5480.7	21922.7	10938.6	6.83E-04	5.34	6.18	1.02
10/22/2021	10:00	17	3,529	3	178.0	99.0	5,000	4	120	129.90	5480.7	21922.7	10938.6	6.83E-04	5.32	6.15	1.01
10/22/2021	10:30	17	3,574	3	178.0	99.0	5,000	4	150	131.45	5480.7	21922.7	10938.6	6.83E-04	5.39	6.23	1.03
10/22/2021	11:00	17	3,561	3	180.0	99.0	5,000	4	180	130.97	5480.7	21922.7	10938.6	6.83E-04	5.37	6.21	1.02
10/22/2021	11:30	17	3,572	3	185.0	99.0	5,000	4	210	131.38	5480.7	21922.7	10938.6	6.83E-04	5.38	6.23	1.03
10/22/2021	12:00	17	3,613	3	188.0	99.0	5,000	4	240	132.88	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	12:30	17	3,601	3	188.0	99.0	5,000	4	270	132.44	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/22/2021	13:00	17	3,593	3	188.0	99.0	5,000	4	300	132.15	5480.7	21922.7	10938.6	6.83E-04	5.41	6.27	1.03
10/22/2021	13:30	17	3,611	3	188.0	99.0	5,000	4	330	132.81	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	14:00	17	3,625	3	188.0	99.0	5,000	4	360	129.65	5480.7	21922.7	10938.6	6.83E-04	5.31	6.15	1.01
10/22/2021	14:30	17	3,611	3	190.0	99.0	5,000	4	390	132.81	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	15:00	17	3,524	3	190.0	99.0	5,000	4	420	129.61	5480.7	21922.7	10938.6	6.83E-04	5.31	6.15	1.01
10/22/2021	15:30	17	3,584	3	190.0	99.0	5,000	4	450	131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	16:00	17	3,590	3	190.0	99.0	5,000	4	480	132.04	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/22/2021	16:30	17	3,624	3	190.0	99.0	5,000	4	510	133.29	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/22/2021	17:00	17	3,623	3	190.0	99.0	5,000	4	540	133.25	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/22/2021	18:00	17	3,520	3	184.0	99.0	5,000	4	600	129.46	5480.7	21922.7	10938.6	6.83E-04	5.30	6.14	1.01
10/22/2021	19:00	17	3,584	3	180.0	99.0	5,000	4	660	131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	20:00	17	3,610	3	178.0	99.0	5,000	4	720	132.77	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	21:00	17	3,585	3	175.0	99.0	5,000	4	780	131.85	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	22:00	17	3,621	3	175.0	99.0	5,000	4	840	133.18	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/22/2021	23:00	17	3,579	3	175.0	99.0	5,000	4	900	131.63	5480.7	21922.7	10938.6	6.83E-04	5.39	6.24	1.03
10/22/2021	0:00	17	3,630	3	175.0	99.0	5,000	4	960	133.51	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
Average		17	3,584	3	183	57	5,000	4		131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 86.42
Total Pounds of Gasoline Vapor Recovered as Emissions: 100.01
Total Gallons of Gasoline Recovered as Emissions: 16.47
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) (1-Bas) (velocity) (Pipe ID x π R) (528 ft/R) (Temp + 460) (Listed As Flow Above)
Bas = (B_{vac} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + B_{vac} / 18 lb-mole H₂O]
PPMd = (PPM) / (1-Bas) PPMc = (PPM) (K)
Cc = Ccm (62.43 E -9 lb-m³/mg-ft³) PMRg = (PMR) (Mg/Mcg)
Bgs = below top of casing
Bas = (B_{vac} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + B_{vac} / 18 lb-mole H₂O]
Qstd = (60 sec/min) (1-Bas) (V) (AKTemp deg Rankin)
Bgs = below top of casing
Bas = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (Temp V's relative hum)
PPMw = PPM measured (wet Conc)
x = # of carbons in calibration gas (isobutylene)
PPMv = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dsm³/10³ mg-mole, mass to volume conversion factor at STP
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOCs as carbon
PMRg = lb/hr, pollutant mass removal rate of VOCs as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstd = Flow at DSCFM
Ccm = PPMc (Mc/K_v)
PMRc = Cc (Qstd) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

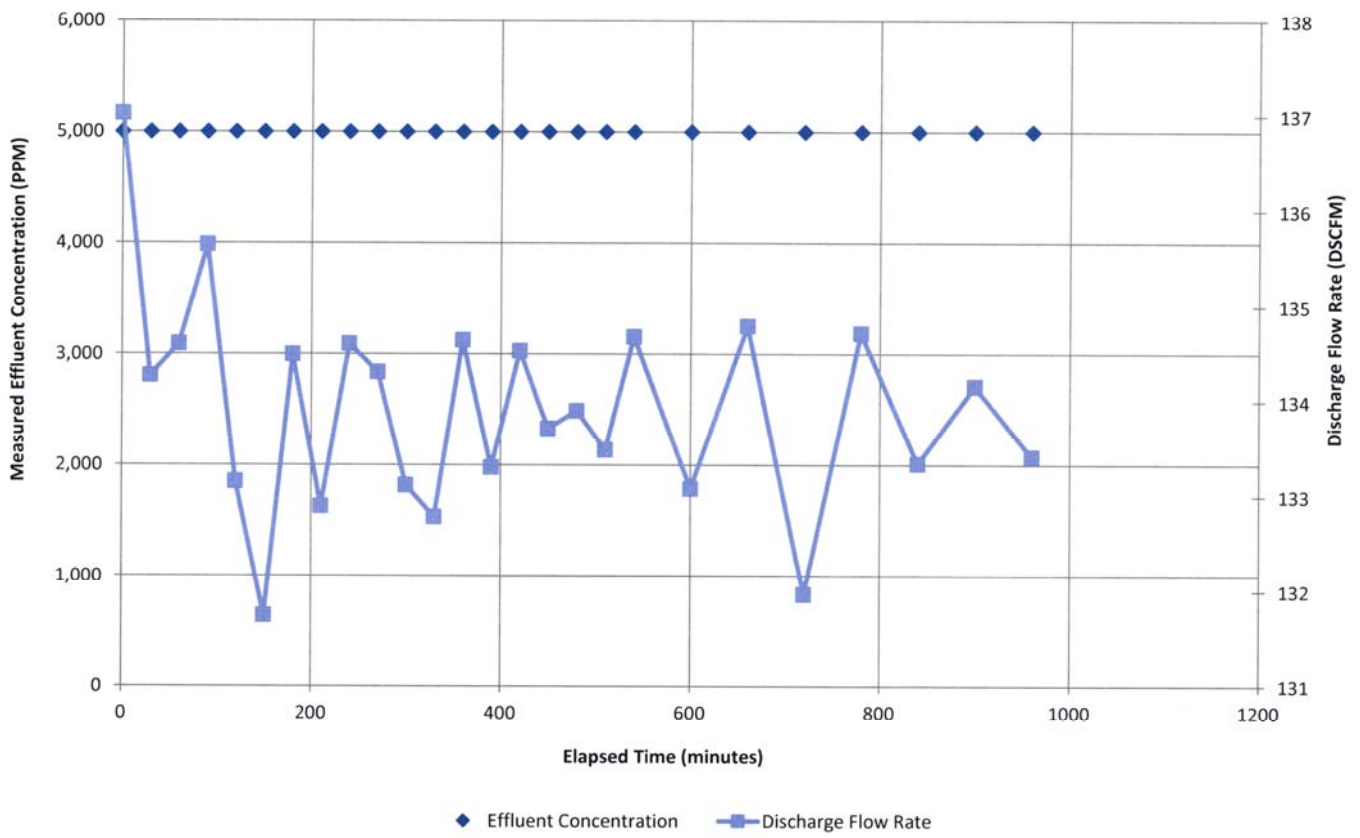
Date: 10/23/2021		Average Depth to Ground Water		3													
Site Name: Okatie Mart		Soil Type		Clay													
SCDHEC Site ID #: 10628		Vacuum Contractor		Katawba													
Well ID #: RWS / RW6		Vacuum Truck Specification (CFM @ mm Hg)		250@25													
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	DSCFM	PPMd	PPMc	Ccm (mg/dsm3)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/23/2021	8:00	17	3.687	3	170.0	99.0	5,000	4	0	137.02	5480.7	21922.7	10938.6	6.83E-04	5.61	6.50	1.07
10/23/2021	8:30	17	3.613	3	170.0	99.0	5,000	4	30	134.27	5480.7	21922.7	10938.6	6.83E-04	5.50	6.37	1.05
10/23/2021	9:00	17	3.622	3	170.0	99.0	5,000	4	60	134.61	5480.7	21922.7	10938.6	6.83E-04	5.52	6.38	1.05
10/23/2021	9:30	17	3.650	3	170.0	99.0	5,000	4	90	135.65	5480.7	21922.7	10938.6	6.83E-04	5.56	6.43	1.06
10/23/2021	10:00	17	3.583	3	170.0	99.0	5,000	4	120	133.16	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/23/2021	10:30	17	3.545	3	170.0	99.0	5,000	4	150	131.75	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/23/2021	11:00	17	3.619	3	175.0	99.0	5,000	4	180	134.50	5480.7	21922.7	10938.6	6.83E-04	5.51	6.38	1.05
10/23/2021	11:30	17	3.576	3	175.0	95.0	5,000	4	210	132.90	5480.7	21922.7	10938.6	6.83E-04	5.45	6.30	1.04
10/23/2021	12:00	17	3.622	3	175.0	90.0	5,000	4	240	134.61	5480.7	21922.7	10938.6	6.83E-04	5.52	6.38	1.05
10/23/2021	12:30	17	3.614	3	178.0	86.0	5,000	4	270	134.31	5480.7	21922.7	10938.6	6.83E-04	5.50	6.37	1.05
10/23/2021	13:00	17	3.582	3	178.0	84.0	5,000	4	300	133.12	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/23/2021	13:30	17	3.573	3	180.0	80.0	5,000	4	330	132.79	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/23/2021	14:00	17	3.623	3	180.0	76.0	5,000	4	360	134.65	5480.7	21922.7	10938.6	6.83E-04	5.52	6.38	1.05
10/23/2021	14:30	17	3.587	3	180.0	73.0	5,000	4	390	133.31	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/23/2021	15:00	17	3.620	3	182.0	59.0	5,000	4	420	134.53	5480.7	21922.7	10938.6	6.83E-04	5.51	6.38	1.05
10/23/2021	15:30	17	3.598	3	188.0	54.0	5,000	4	450	133.72	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/23/2021	16:00	17	3.603	3	188.0	56.0	5,000	4	480	133.90	5480.7	21922.7	10938.6	6.83E-04	5.49	6.35	1.05
10/23/2021	16:30	17	3.592	3	185.0	57.0	5,000	4	510	133.49	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/23/2021	17:00	17	3.624	3	180.0	56.0	5,000	4	540	134.68	5480.7	21922.7	10938.6	6.83E-04	5.52	6.39	1.05
10/23/2021	17:30	17	3.581	3	180.0	58.0	5,000	4	600	133.09	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/23/2021	18:00	17	3.627	3	178.0	57.0	5,000	4	660	134.79	5480.7	21922.7	10938.6	6.83E-04	5.52	6.39	1.05
10/23/2021	18:30	17	3.551	3	175.0	57.0	5,000	4	720	131.97	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/23/2021	19:00	17	3.625	3	175.0	61.0	5,000	4	780	134.72	5480.7	21922.7	10938.6	6.83E-04	5.52	6.39	1.05
10/23/2021	22:00	17	3.588	3	170.0	62.0	5,000	4	840	133.35	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/23/2021	23:00	17	3.610	3	170.0	61.0	5,000	4	900	134.16	5480.7	21922.7	10938.6	6.83E-04	5.50	6.36	1.05
10/23/2021	0:00	17	3.590	3	170.0	62.0	5,000	4	960	133.42	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
Average		17	3.604	3	176	57	5,000	4		133.94	5480.7	21922.7	10938.6	6.83E-04	5.49	6.35	1.05

Bws: 0.087702226
Bsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 87.81
Total Pounds of Gasoline Vapor Recovered as Emissions: 101.62
Total Gallons of Gasoline Recovered as Emissions: 16.73
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qair = (60 sec/min) (1-Bws) (velocity) (Pipe ID sq ft) (528 ft / (Temp + 460)) (Listed As Flow Above)
Bws = (B_{base} / 18 lb-mole H₂O) / (1128.84 lb-mole dry air) + B_{base} / 18 lb-mole H₂O
PPMd = (PPM) / (1-Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-ft³) PMRc = (PPM) (Mg/Mcp)
Bgs = below top of casing
Bsw = (B_{base} / 18 lb-mole H₂O) / (1128.84 lb-mole dry air) + B_{base} / 18 lb-mole H₂O
Qair = (60 sec/min) (1-Bws) (V) (K) (Temp deg Rankin)
Bgs = below top of casing
Bsw = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp Vs relative hum)
PPM = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kc = 34.07 dm³/ft³ mg-mole, mass to volume conversion factor at STP
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOCs as carbon
PMRg = lb/hr, pollutant mass removal rate of VOCs as gasoline
Mcp = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPM = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qair = Flow at DSCFM
Ccm = PPMc (Mg/K)
PMRc = Cc (Qair) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

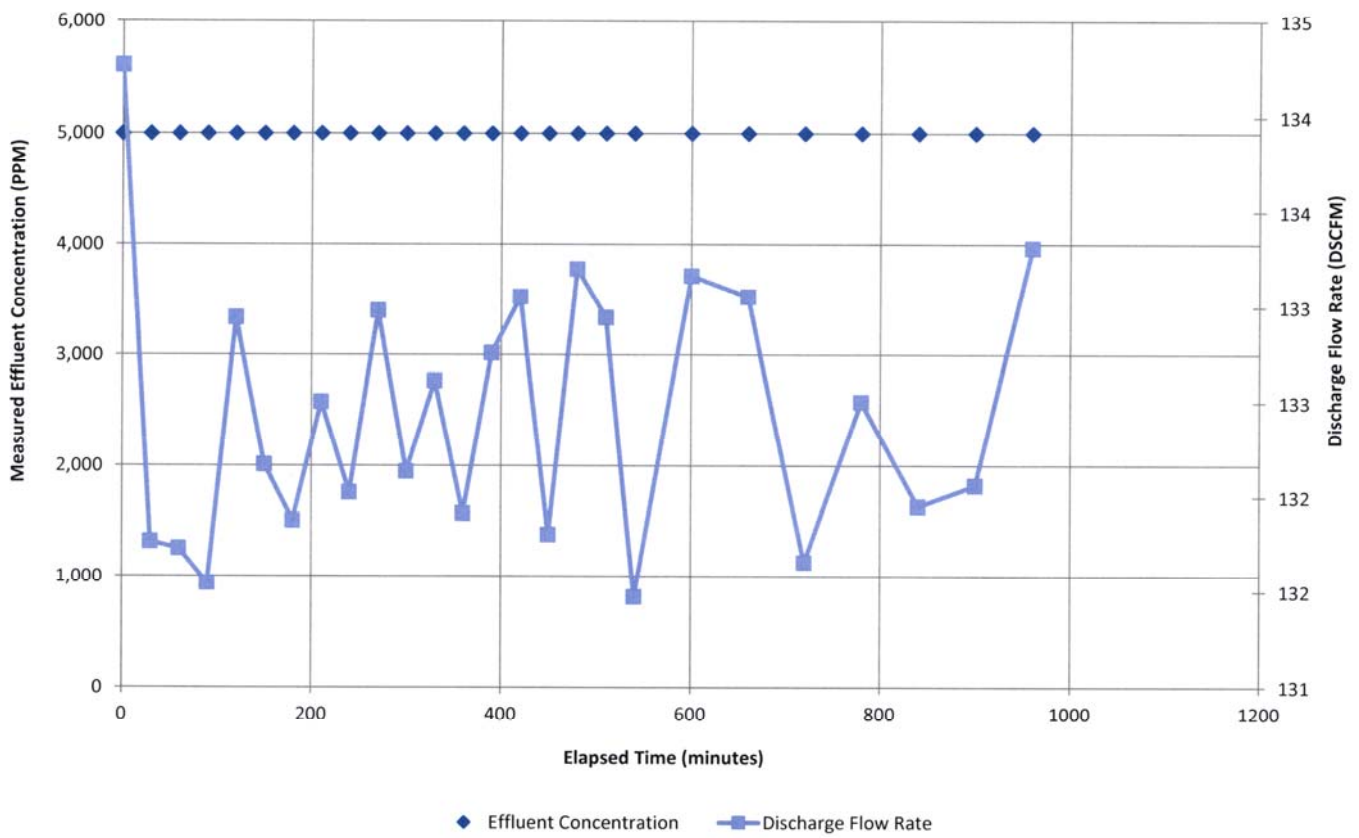
Date: 10/24/2021		Average Depth to Ground Water		3		Soil Type		Clay									
Site Name: Okatie Mart		Vacuum Contractor		250822		Kalamita		250822									
SCDHEC Site ID #: 16028		Vacuum Truck Specification (CFM @ mm Hg)		PPM		Ccm		PMRc									
Well ID #: RW3 / RW6		Vacuum (in Hg)		K		Ccm		PMRg									
Date	Time	Vacuum (in Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel Humid (%)	PPMmeasured (ppm)	Elapsed Flow (min)	PPM	PPMc	Ccm (mg/dscfm)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)		
10/24/2021	8:00	17	3,650	3	178.0	64.0	5,000	4	0	134.27	5480.7	21922.7	10938.6	6.83E-04	5.50	6.37	1.05
10/24/2021	8:30	17	3,582	3	178.0	64.0	5,000	4	30	131.77	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/24/2021	9:00	17	3,581	3	180.0	64.0	5,000	4	60	131.73	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/24/2021	9:30	17	3,576	3	180.0	62.0	5,000	4	90	131.55	5480.7	21922.7	10938.6	6.83E-04	5.39	6.24	1.03
10/24/2021	10:00	17	3,614	3	180.0	63.0	5,000	4	120	132.95	5480.7	21922.7	10938.6	6.83E-04	5.45	6.30	1.04
10/24/2021	10:30	17	3,593	3	180.0	61.0	5,000	4	150	132.17	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/24/2021	11:00	17	3,585	3	182.0	62.0	5,000	4	180	131.88	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/24/2021	11:30	17	3,602	3	182.0	57.0	5,000	4	210	132.50	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/24/2021	12:00	17	3,589	3	182.0	54.0	5,000	4	240	132.03	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/24/2021	12:30	17	3,615	3	182.0	49.0	5,000	4	270	132.98	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/24/2021	13:00	17	3,592	3	190.0	49.0	5,000	4	300	132.14	5480.7	21922.7	10938.6	6.83E-04	5.41	6.27	1.03
10/24/2021	13:30	17	3,605	3	190.0	50.0	5,000	4	330	132.61	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/24/2021	14:00	17	3,586	3	190.0	49.0	5,000	4	360	131.92	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/24/2021	14:30	17	3,609	3	190.0	49.0	5,000	4	390	132.76	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/24/2021	15:00	17	3,617	3	190.0	50.0	5,000	4	420	133.06	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/24/2021	15:30	17	3,583	3	190.0	49.0	5,000	4	450	131.81	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/24/2021	16:00	17	3,621	3	190.0	49.0	5,000	4	480	133.20	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/24/2021	16:30	17	3,614	3	190.0	49.0	5,000	4	510	132.95	5480.7	21922.7	10938.6	6.83E-04	5.45	6.30	1.04
10/24/2021	17:00	17	3,574	3	188.0	48.0	5,000	4	540	131.47	5480.7	21922.7	10938.6	6.83E-04	5.39	6.23	1.03
10/24/2021	18:00	17	3,620	3	182.0	49.0	5,000	4	600	133.17	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/24/2021	19:00	17	3,617	3	180.0	48.0	5,000	4	660	133.06	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/24/2021	20:00	17	3,579	3	176.0	50.0	5,000	4	720	131.66	5480.7	21922.7	10938.6	6.83E-04	5.39	6.24	1.03
10/24/2021	21:00	17	3,602	3	176.0	51.0	5,000	4	780	132.50	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/24/2021	22:00	17	3,587	3	176.0	49.0	5,000	4	840	131.95	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/24/2021	23:00	17	3,590	3	176.0	48.0	5,000	4	900	132.06	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/24/2021	0:00	17	3,624	3	176.0	49.0	5,000	4	960	133.31	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
Average		17	3,600	3	183	57	5,000	4		132.44	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 86.83
Total Pounds of Gasoline Vapor Recovered as Emissions: 100.48
Total Gallons of Gasoline Recovered as Emissions: 16.55
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) (1-Bws) (velocity) (Pipe ID sq ft) (528 ft/mi) / (Temp + 460) (Listed As Flow Above)
Bws = (Bwsu / 18 lb-mole H2O) / [(1/28.84 lb-mole dry air) + Bwsu / 18 lb-mole H2O]
PPMd = (PPMv) / (1-Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-m³) PMRg = (PMRc) (Mg/McQ)
Bgs = below top of casing
Bws = (Bwsu / 18 lb-mole H2O) / [(1/28.84 lb-mole dry air) + Bwsu / 18 lb-mole H2O]
Qstd = (60 sec/min) (1-Bws) (V) (A) (Temp deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMv = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMv = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dscfm, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kv = 24.07 dscfm/10³ mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
McQ = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt of gasoline
Qstd = flow at DSCFM
Ccm = PPMc (Mc/McQ)
PMRc = Cc (Qstd) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

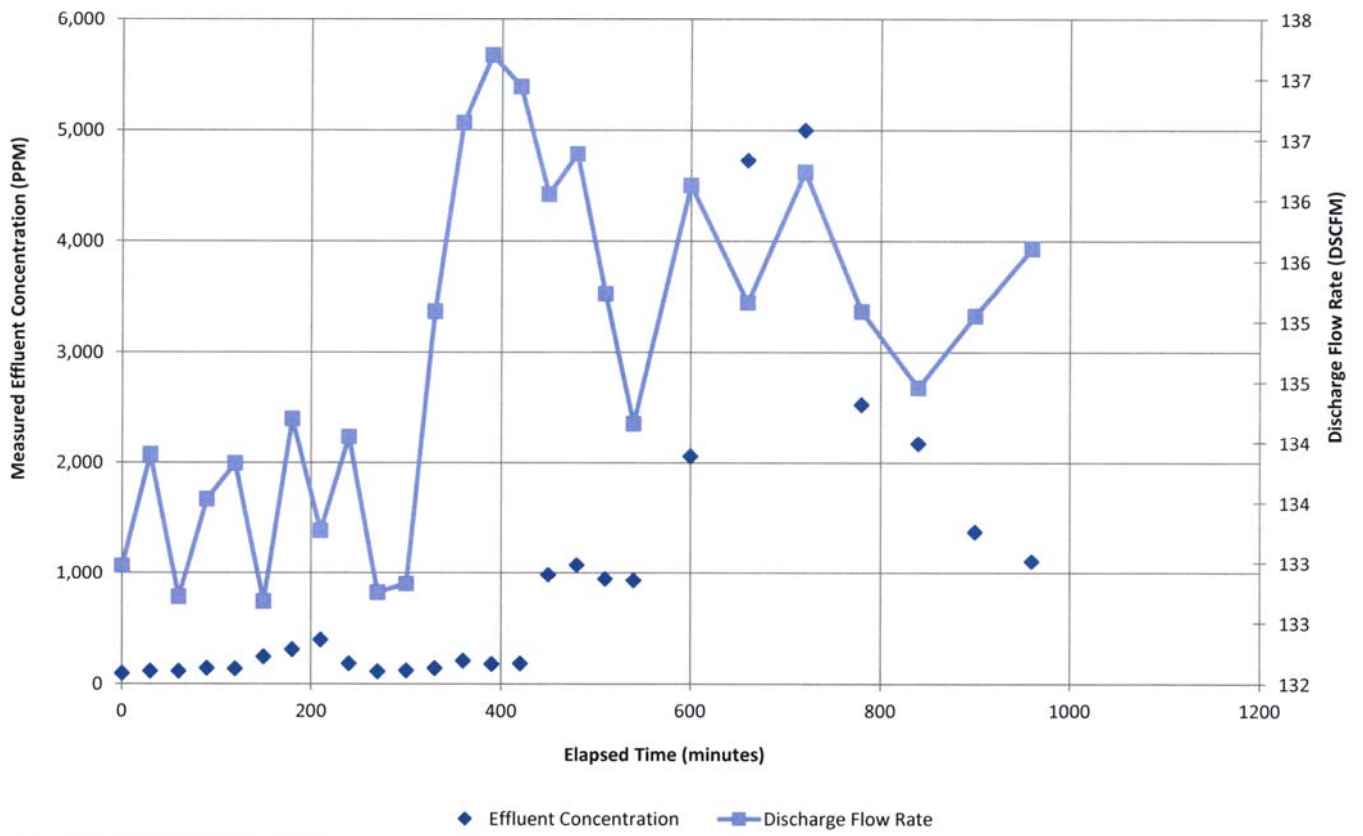
Date: 10/25/2021		Average Depth to Ground Water										3					
Site Name: Okatie Mart		Vacuum Contractor										Clay					
SCDHEC Site ID #: 10628		Soil Type										Katawba					
Well ID #		Vacuum Truck Specification (CFM @ mm Hg)										250825					
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel. Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	DSCFM	PPMd	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/25/2021	8:00	17	3,588	3	170.0	99.0	94	4	0	132.98	103.0	412.1	205.6	1.28E-05	0.10	0.12	0.02
10/25/2021	8:30	17	3,613	3	170.0	99.0	116	4	30	133.90	127.2	508.6	253.8	1.58E-05	0.13	0.15	0.02
10/25/2021	9:00	17	3,581	3	170.0	99.0	116	4	60	132.72	127.2	508.6	253.8	1.58E-05	0.13	0.15	0.02
10/25/2021	9:30	17	3,603	3	170.0	99.0	142	4	90	133.53	155.7	622.6	310.7	1.94E-05	0.16	0.18	0.03
10/25/2021	10:00	17	3,611	3	180.0	99.0	137	4	120	133.83	150.2	600.7	299.7	1.87E-05	0.15	0.17	0.03
10/25/2021	10:30	17	3,580	3	180.0	99.0	244	4	150	132.68	267.5	1069.8	533.8	3.33E-05	0.27	0.31	0.05
10/25/2021	11:00	17	3,621	3	180.0	99.0	309	4	180	134.20	338.7	1354.8	676.0	4.22E-05	0.34	0.39	0.06
10/25/2021	11:30	17	3,596	3	180.0	99.0	396	4	210	133.27	434.1	1736.3	866.3	5.41E-05	0.43	0.50	0.08
10/25/2021	12:00	17	3,617	3	180.0	99.0	185	4	240	134.05	202.8	811.1	404.7	2.53E-05	0.20	0.24	0.04
10/25/2021	12:30	17	3,582	3	180.0	98.0	114	4	270	132.75	125.0	499.8	249.4	1.56E-05	0.12	0.14	0.02
10/25/2021	13:00	17	3,564	3	180.0	98.0	121	4	300	132.83	132.6	530.5	264.7	1.65E-05	0.13	0.15	0.03
10/25/2021	13:30	17	3,645	3	185.0	96.0	142	4	330	135.09	155.7	622.6	310.7	1.94E-05	0.16	0.18	0.03
10/25/2021	14:00	17	3,687	3	185.0	95.0	208	4	360	136.64	228.0	912.0	455.0	2.84E-05	0.23	0.27	0.04
10/25/2021	14:30	17	3,702	3	185.0	94.0	179	4	390	137.20	196.2	784.8	391.6	2.44E-05	0.20	0.23	0.04
10/25/2021	15:00	17	3,695	3	185.0	72.0	185	4	420	136.94	202.8	811.1	404.7	2.53E-05	0.21	0.24	0.04
10/25/2021	15:30	17	3,671	3	185.0	78.0	982	4	450	136.05	1076.4	4305.6	2148.3	1.34E-04	1.09	1.27	0.21
10/25/2021	16:00	17	3,680	3	185.0	76.0	1,074	4	480	136.39	1177.2	4709.0	2349.6	1.47E-04	1.20	1.39	0.23
10/25/2021	16:30	17	3,649	3	185.0	71.0	944	4	510	135.24	1034.7	4139.0	2065.2	1.29E-04	1.05	1.21	0.20
10/25/2021	17:00	17	3,620	3	180.0	68.0	932	4	540	134.16	1021.6	4086.4	2038.9	1.27E-04	1.02	1.19	0.20
10/25/2021	18:00	17	3,673	3	180.0	64.0	2,059	4	600	136.13	2256.9	9027.8	4504.5	2.81E-04	2.30	2.66	0.44
10/25/2021	19:00	17	3,647	3	178.0	84.0	4,727	4	660	135.16	5181.4	20725.7	10341.3	6.46E-04	5.24	6.06	1.00
10/25/2021	20:00	17	3,676	3	175.0	85.0	5,000	4	720	136.24	5480.7	21922.7	10938.6	6.83E-04	5.58	6.46	1.06
10/25/2021	21:00	17	3,645	3	170.0	89.0	2,530	4	780	135.09	2773.2	11092.9	5534.9	3.46E-04	2.80	3.24	0.53
10/25/2021	22:00	17	3,628	3	170.0	76.0	2,174	4	840	134.46	2383.0	9532.0	4756.1	2.97E-04	2.40	2.77	0.46
10/25/2021	23:00	17	3,644	3	170.0	74.0	1,376	4	900	135.05	1508.3	6033.1	3010.3	1.88E-04	1.52	1.76	0.29
10/25/2021	0:00	17	3,659	3	170.0	73.0	1,107	4	960	135.61	1213.4	4853.7	2421.8	1.51E-04	1.23	1.42	0.23
Average		17	3,635	3	178	57	984	4		134.70	1079.0	4315.9	2153.5	1.34E-04	1.09	1.26	0.21

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 17.47
Total Pounds of Gasoline Vapor Recovered as Emissions: 20.22
Total Gallons of Gasoline Recovered as Emissions: 3.33
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qair = (60 sec/min) (1 - Bws) (velocity) (Pipe ID to R) (528 ft) (Temp. + 460) (Listed As Flow Above)
Bws = (B_{bas} / 18 lb-mole H₂O) / [(128.84 lb-mole dry air) + B_{bas} / 18 lb-mole H₂O]
PPMd = (PPM_a) / (1 - Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-ft³) PMRg = (PMRc) (Mg/Mcg)
Bgs = below top of casing
Bws = (B_{bas} / 18 lb-mole H₂O) / [(128.84 lb-mole dry air) + B_{bas} / 18 lb-mole H₂O]
Qair = (60 sec/min) (1 - Bws) (V) (AKTemp deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMc = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dm³/ft³, mass to volume conversion factor at STP
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOCs as carbon
PMRg = lb/hr, pollutant mass removal rate of VOCs as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = 'dry' concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qair = flow at DSCFM
Ccm = PPMc (Mc/K)
PMRc = Cc (Qair) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

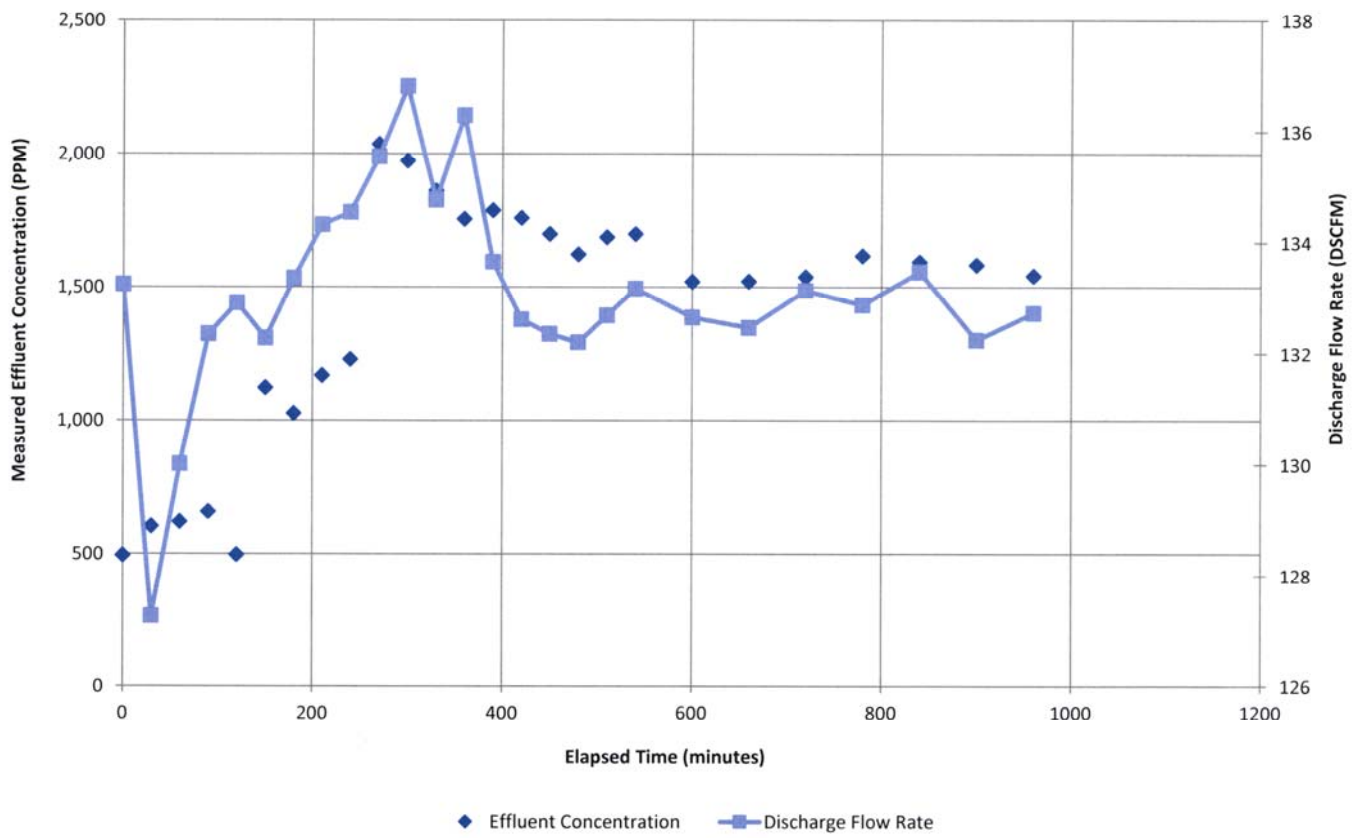
Date: 10/26/2021		Average Depth to Ground Water										3					
Site Name: Okatie Mart		Soil Type										Clay					
SCDHEC Site ID #: 10628		Vacuum Contractor										Kalawba					
Well ID #: RW1 / RW4 / RW5		Vacuum Truck Specification (CFM @ mm Hg)										250822					
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel.Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	DSCFM	PPMd	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/26/2021	8:00	17	3,588	3	170.0	56.0	495	4	0	133.25	542.6	2170.3	1082.9	6.76E-05	0.54	0.63	0.10
10/26/2021	8:30	17	3,427	3	170.0	49.0	604	4	30	127.27	662.1	2648.3	1321.4	8.25E-05	0.63	0.73	0.12
10/26/2021	9:00	17	3,301	3	170.0	43.0	621	4	60	130.02	680.7	2722.8	1358.6	8.48E-05	0.66	0.77	0.13
10/26/2021	9:30	17	3,564	3	170.0	43.0	658	4	90	132.36	721.3	2885.0	1439.5	8.99E-05	0.71	0.83	0.14
10/26/2021	10:00	17	3,579	3	171.0	42.0	497	4	120	132.91	544.8	2179.1	1087.3	6.79E-05	0.54	0.63	0.10
10/26/2021	10:30	17	3,562	3	176.0	45.0	1,123	4	150	132.28	1231.0	4923.8	2456.8	1.53E-04	1.22	1.41	0.23
10/26/2021	11:00	17	3,591	3	178.0	45.0	1,027	4	180	133.36	1125.7	4502.9	2246.8	1.40E-04	1.12	1.30	0.21
10/26/2021	11:30	17	3,617	3	181.0	46.0	1,168	4	210	134.33	1280.3	5121.1	2552.2	1.60E-04	1.29	1.49	0.25
10/26/2021	12:00	17	3,623	3	181.0	45.0	1,229	4	240	134.55	1347.1	5388.6	2688.7	1.68E-04	1.36	1.57	0.26
10/26/2021	12:30	17	3,650	3	183.0	41.0	2,036	4	270	135.55	2231.7	8926.9	4454.2	2.78E-04	2.26	2.62	0.43
10/26/2021	13:00	17	3,694	3	183.0	41.0	1,974	4	300	136.81	2163.8	8655.1	4318.5	2.70E-04	2.21	2.56	0.42
10/26/2021	13:30	17	3,629	3	184.0	42.0	1,862	4	330	134.77	2041.0	8164.0	4073.5	2.54E-04	2.06	2.38	0.39
10/26/2021	14:00	17	3,670	3	186.0	41.0	1,766	4	360	136.29	1924.8	7699.2	3841.6	2.40E-04	1.96	2.27	0.37
10/26/2021	14:30	17	3,599	3	185.0	47.0	1,789	4	390	133.66	1961.0	7843.9	3913.8	2.44E-04	1.96	2.27	0.37
10/26/2021	15:00	17	3,571	3	184.0	48.0	1,760	4	420	132.62	1929.2	7716.8	3850.4	2.40E-04	1.91	2.21	0.36
10/26/2021	15:30	17	3,564	3	184.0	41.0	1,699	4	450	132.36	1862.3	7449.3	3716.9	2.32E-04	1.84	2.13	0.35
10/26/2021	16:00	17	3,560	3	183.0	36.0	1,623	4	480	132.21	1779.0	7116.1	3550.7	2.22E-04	1.76	2.03	0.34
10/26/2021	16:30	17	3,573	3	182.0	37.0	1,687	4	510	132.69	1849.2	7396.7	3690.7	2.30E-04	1.83	2.12	0.35
10/26/2021	17:00	17	3,586	3	181.0	35.0	1,699	4	540	133.17	1862.3	7449.3	3716.9	2.32E-04	1.85	2.15	0.35
10/26/2021	18:00	17	3,572	3	173.0	32.0	1,520	4	600	132.65	1666.1	6664.5	3325.3	2.08E-04	1.65	1.91	0.31
10/26/2021	19:00	17	3,567	3	170.0	32.0	1,521	4	660	132.47	1667.2	6668.9	3327.5	2.08E-04	1.65	1.91	0.31
10/26/2021	20:00	17	3,585	3	170.0	35.0	1,538	4	720	133.14	1685.9	6743.4	3364.7	2.10E-04	1.68	1.94	0.32
10/26/2021	21:00	17	3,578	3	170.0	35.0	1,617	4	780	132.88	1772.4	7089.8	3537.5	2.21E-04	1.76	2.04	0.34
10/26/2021	22:00	17	3,594	3	170.0	36.0	1,594	4	840	133.47	1747.2	6988.9	3487.2	2.18E-04	1.74	2.02	0.33
10/26/2021	23:00	17	3,561	3	170.0	35.0	1,583	4	900	132.25	1735.2	6940.7	3463.1	2.16E-04	1.72	1.99	0.33
10/26/2021	0:00	17	3,574	3	170.0	34.0	1,542	4	960	132.73	1690.2	6761.0	3373.5	2.11E-04	1.68	1.94	0.32
Average		17	3,583	3	177	57	1,393	4		133.08	1527.1	6108.3	3047.8	1.90E-04	1.52	1.76	0.29

Bws: 0.087702226
Bwsr: 0.06

Total Pounds of Carbon Recovered as Emissions: 24.37
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.20
Total Gallons of Gasoline Recovered as Emissions: 4.64
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qatz = (60 sec/min) * (1 - Bws) * (velocity) / (Pipe ID sq ft) * (528 ft / mi) * (Temp. + 460) (Listed As Flow Above)
Bws = (Bwsr / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + Bwsr / 18 lb-mole H₂O]
PPMd = (PPMc) / (1 - Bws); PPMc = (PPM) * (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-ft³) PPMRg = (PMRc) * (Mg/Mc)
Bgs = below top of casing
Bsw = (Bwsr / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + Bwsr / 18 lb-mole H₂O]
Qatz = (60 sec/min) * (1 - Bws) * (V) * (Temp. deg Rankin)
Bgs = below top of casing
Bsw = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMc = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kv = 24.07 (atm³/lb)^{1/2} mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qatz = Flow at DSCFM
Ccm = PPMc (Mc/K)
PMRc = Cc (Qatz) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

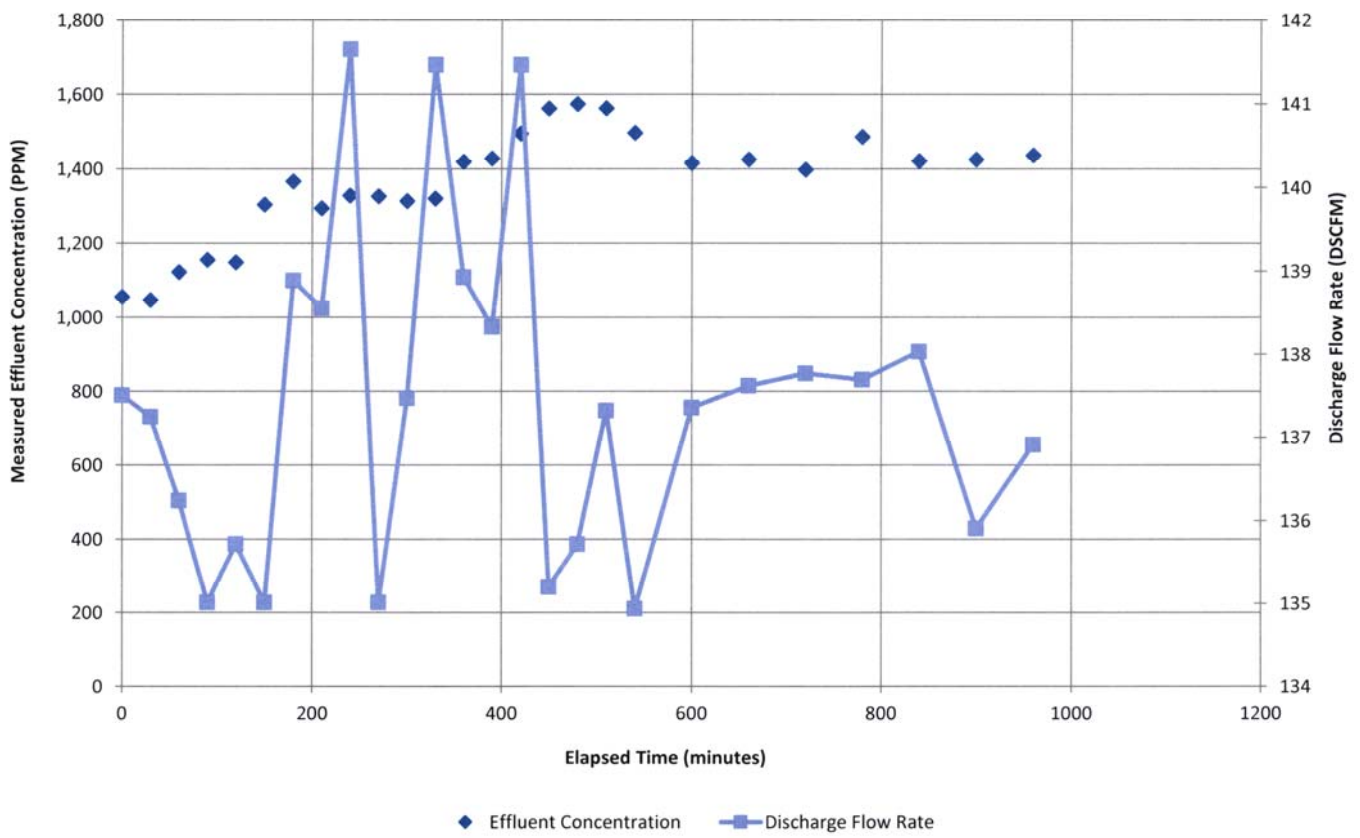
Date: 10/27/2021		Average Depth to Ground Water										3					
Site Name: Okatie Mart		Vacuum Contractor										City					
SCDHEC Site ID #: 10628		Vacuum Truck Specification (CFM @ mm Hg)										Kalamita					
Well ID #: 250826		Vacuum Truck Specification (CFM @ mm Hg)										250826					
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	(DSCFM)	PPMd	PPMc	Ccm (mg/dsm3)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/27/2021	8:00	18	3,688	3	170.0	82.0	1,056	4	0	137.51	1157.5	4630.1	2310.2	1.44E-04	1.19	1.38	0.23
10/27/2021	8:30	18	3,681	3	170.0	81.0	1,047	4	30	137.25	1147.7	4590.6	2290.5	1.43E-04	1.18	1.36	0.22
10/27/2021	9:00	18	3,654	3	170.0	86.0	1,123	4	60	136.24	1231.0	4923.8	2456.8	1.53E-04	1.25	1.45	0.24
10/27/2021	9:30	19	3,621	3	170.0	84.0	1,156	4	90	135.01	1267.1	5068.5	2529.0	1.58E-04	1.28	1.48	0.24
10/27/2021	10:00	18	3,640	3	170.0	81.0	1,149	4	120	135.72	1259.5	5037.8	2513.7	1.57E-04	1.28	1.48	0.24
10/27/2021	10:30	18	3,621	3	170.0	76.0	1,304	4	150	135.01	1429.4	5717.4	2852.8	1.78E-04	1.44	1.67	0.27
10/27/2021	11:00	19	3,725	3	170.0	71.0	1,366	4	180	138.89	1497.3	5989.3	2988.4	1.87E-04	1.55	1.80	0.30
10/27/2021	11:30	19	3,716	3	170.0	72.0	1,294	4	210	138.55	1418.4	5673.6	2830.9	1.77E-04	1.47	1.70	0.28
10/27/2021	12:00	19	3,799	3	171.0	67.0	1,328	4	240	141.65	1455.7	5822.7	2905.3	1.81E-04	1.54	1.78	0.29
10/27/2021	12:30	18	3,621	3	173.0	65.0	1,326	4	270	135.01	1453.5	5813.9	2900.9	1.81E-04	1.47	1.70	0.28
10/27/2021	13:00	18	3,687	3	174.0	62.0	1,313	4	300	137.47	1439.2	5756.9	2872.5	1.79E-04	1.48	1.71	0.28
10/27/2021	13:30	19	3,794	3	174.0	54.0	1,320	4	330	141.46	1446.9	5787.6	2887.8	1.80E-04	1.53	1.77	0.29
10/27/2021	14:00	19	3,726	3	175.0	50.0	1,419	4	360	138.93	1555.4	6221.7	3104.4	1.94E-04	1.62	1.87	0.31
10/27/2021	14:30	19	3,710	3	178.0	43.0	1,428	4	390	138.33	1565.3	6261.1	3124.1	1.95E-04	1.62	1.87	0.31
10/27/2021	15:00	19	3,794	3	180.0	32.0	1,495	4	420	141.46	1638.7	6554.9	3270.6	2.04E-04	1.73	2.01	0.33
10/27/2021	15:30	18	3,626	3	180.0	19.0	1,562	4	450	135.20	1712.2	6848.6	3417.2	2.13E-04	1.73	2.00	0.33
10/27/2021	16:00	18	3,640	3	181.0	21.0	1,574	4	480	135.72	1725.3	6901.3	3443.5	2.15E-04	1.75	2.03	0.33
10/27/2021	16:30	18	3,683	3	180.0	23.0	1,563	4	510	137.32	1713.3	6853.0	3419.4	2.13E-04	1.76	2.04	0.34
10/27/2021	17:00	18	3,619	3	180.0	25.0	1,497	4	540	134.94	1640.9	6563.6	3275.0	2.04E-04	1.66	1.92	0.32
10/27/2021	18:00	18	3,684	3	179.0	26.0	1,416	4	600	137.36	1552.1	6208.5	3097.8	1.93E-04	1.59	1.84	0.30
10/27/2021	19:00	18	3,691	3	178.0	23.0	1,425	4	660	137.62	1562.0	6248.0	3117.5	1.95E-04	1.61	1.86	0.31
10/27/2021	20:00	18	3,695	3	176.0	20.0	1,398	4	720	137.77	1532.4	6129.6	3058.4	1.91E-04	1.58	1.83	0.30
10/27/2021	21:00	18	3,693	3	175.0	19.0	1,486	4	780	137.70	1628.9	6515.4	3250.9	2.03E-04	1.68	1.94	0.32
10/27/2021	22:00	18	3,702	3	173.0	24.0	1,421	4	840	138.03	1557.6	6230.4	3108.7	1.94E-04	1.61	1.86	0.31
10/27/2021	23:00	18	3,645	3	171.0	26.0	1,425	4	900	135.91	1562.0	6248.0	3117.5	1.95E-04	1.59	1.84	0.30
10/27/2021	0:00	18	3,672	3	170.0	23.0	1,437	4	960	136.91	1575.1	6300.6	3143.7	1.96E-04	1.61	1.87	0.31
Average		18	3,686	3	174	57	1,359	4		137.42	1489.4	5957.6	2972.6	1.86E-04	1.53	1.77	0.29

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 24.49
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.34
Total Gallons of Gasoline Recovered as Emissions: 4.67
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) * (1-Bws) (velocity) (Pipe ID sq ft) (528 ft/mi) / (Temp. + 460) (Listed As Flow Above)
Bws = (B_{wsu} / 18 lb-mole H₂O) / (128.84 lb-mole dry air) + (B_{wsu} / 18 lb-mole H₂O)
PPMc = (PPMv) / (1-Bws)
PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-ft³)
PMRg = (PMRc) (Mg/Mcg)
Bgs = below top of casing
Bws = (B_{wsu} / 18 lb-mole H₂O) / (128.84 lb-mole dry air) + (B_{wsu} / 18 lb-mole H₂O)
Qstd = (60 sec/min) * (1-Bws) (V) (K) (Temp. deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp Vs relative hum)
PPMv = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMv = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dm³/10³ mg-mole, mass to volume conversion factor at STP
Cc = 103dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Cstd = Flow at DSCFM
Ccm = PPMc (Mc/K_v)
PMRc = Cc (Qstd) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

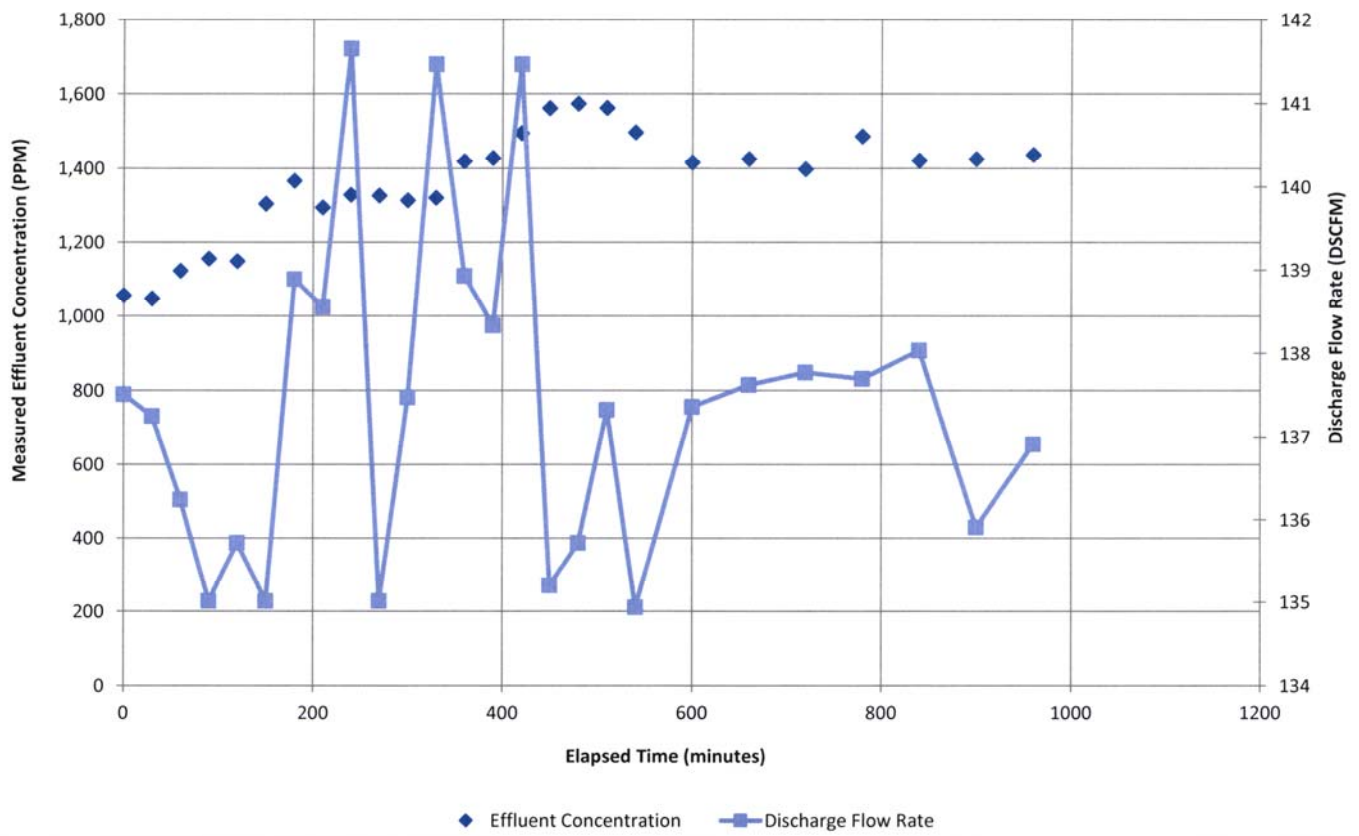
Date: 10/28/2021		Average Depth to Ground Water		3		Soil Type		Clay		Katawba		250@25					
Site Name: Okatie Mart		Well ID #		RW1 / RW4 / RW5		Vacuum Truck Specification (CFM @ mm Hg)		Vacuum Contractor		PPM		PPM					
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp (F)	Rel. Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	(DSCFM)	PPMd	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/28/2021	8:00	18	3.688	3	170.0	82.0	1,056	4	0	137.51	1157.5	4630.1	2310.2	1.44E-04	1.19	1.38	0.23
10/28/2021	8:30	18	3.681	3	170.0	81.0	1,047	4	30	137.25	1147.7	4590.6	2290.5	1.43E-04	1.18	1.36	0.22
10/28/2021	9:00	18	3.654	3	170.0	86.0	1,123	4	60	136.24	1231.0	4923.8	2456.8	1.53E-04	1.25	1.45	0.24
10/28/2021	9:30	19	3.621	3	170.0	84.0	1,156	4	90	135.01	1267.1	5068.5	2529.0	1.58E-04	1.28	1.48	0.24
10/28/2021	10:00	18	3.640	3	170.0	81.0	1,149	4	120	135.72	1259.5	5037.8	2513.7	1.57E-04	1.28	1.48	0.24
10/28/2021	10:30	18	3.621	3	170.0	76.0	1,304	4	150	135.01	1429.4	5717.4	2852.8	1.78E-04	1.44	1.67	0.27
10/28/2021	11:00	19	3.725	3	170.0	71.0	1,366	4	180	138.89	1497.3	5989.3	2988.4	1.87E-04	1.55	1.80	0.30
10/28/2021	11:30	19	3.716	3	170.0	72.0	1,294	4	210	138.55	1418.4	5673.6	2830.9	1.77E-04	1.47	1.70	0.28
10/28/2021	12:00	19	3.799	3	171.0	67.0	1,328	4	240	141.65	1455.7	5822.7	2905.3	1.81E-04	1.54	1.78	0.29
10/28/2021	12:30	18	3.621	3	173.0	65.0	1,326	4	270	135.01	1453.5	5813.9	2900.9	1.81E-04	1.47	1.70	0.28
10/28/2021	13:00	18	3.687	3	174.0	62.0	1,313	4	300	137.47	1439.2	5756.9	2872.5	1.79E-04	1.48	1.71	0.28
10/28/2021	13:30	19	3.794	3	174.0	54.0	1,320	4	330	141.46	1446.9	5787.6	2887.8	1.80E-04	1.53	1.77	0.29
10/28/2021	14:00	19	3.726	3	175.0	50.0	1,419	4	360	138.93	1555.4	6221.7	3104.4	1.94E-04	1.62	1.87	0.31
10/28/2021	14:30	19	3.710	3	178.0	43.0	1,428	4	390	138.33	1565.3	6261.1	3124.1	1.95E-04	1.62	1.87	0.31
10/28/2021	15:00	19	3.794	3	180.0	32.0	1,495	4	420	141.46	1638.7	6554.9	3270.6	2.04E-04	1.73	2.01	0.33
10/28/2021	15:30	18	3.626	3	180.0	19.0	1,562	4	450	135.20	1712.2	6848.6	3417.2	2.13E-04	1.73	2.00	0.33
10/28/2021	16:00	18	3.640	3	181.0	21.0	1,574	4	480	135.72	1725.3	6901.3	3443.5	2.15E-04	1.75	2.03	0.33
10/28/2021	16:30	18	3.683	3	180.0	23.0	1,563	4	510	137.32	1713.3	6853.0	3419.4	2.13E-04	1.76	2.04	0.34
10/28/2021	17:00	18	3.619	3	180.0	25.0	1,497	4	540	134.94	1640.9	6563.6	3275.0	2.04E-04	1.66	1.92	0.32
10/28/2021	18:00	18	3.684	3	179.0	26.0	1,416	4	600	137.36	1552.1	6208.5	3097.8	1.93E-04	1.59	1.84	0.30
10/28/2021	19:00	18	3.691	3	178.0	23.0	1,425	4	660	137.62	1562.0	6248.0	3117.5	1.95E-04	1.61	1.86	0.31
10/28/2021	20:00	18	3.695	3	176.0	20.0	1,398	4	720	137.77	1532.4	6129.6	3058.4	1.91E-04	1.58	1.83	0.30
10/28/2021	21:00	18	3.693	3	175.0	19.0	1,488	4	780	137.70	1628.9	6515.4	3250.9	2.03E-04	1.68	1.94	0.32
10/28/2021	22:00	18	3.702	3	173.0	23.0	1,421	4	840	138.03	1557.6	6230.4	3108.7	1.94E-04	1.61	1.86	0.31
10/28/2021	23:00	18	3.645	3	171.0	26.0	1,425	4	900	135.91	1562.0	6248.0	3117.5	1.95E-04	1.59	1.84	0.30
10/28/2021	0:00	18	3.672	3	170.0	23.0	1,437	4	960	136.91	1575.1	6300.6	3143.7	1.96E-04	1.61	1.87	0.31
Average		18	3.686	3	174	57	1,359	4		137.42	1489.4	5957.6	2972.6	1.86E-04	1.53	1.77	0.29

Bws: 0.087702226
Bsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 24.49
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.34
Total Gallons of Gasoline Recovered as Emissions: 4.67
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) * (1-Bws) * (velocity) * (Pipe ID sq ft) * (528 ft / mi) * (Temp. + 460) (Listed As Flow Above)
Bws = (B_{vac} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + B_{vac} / 18 lb-mole H₂O]
PPMd = (PPM_{meas}) * (1-Bws) PPMc = (PPM) * (K)
Cc = Ccm * (62.43 lb-ft³/mg-ft³) PMRg = (PMRc) * (Mg/Mc)
Bgs = below top of casing
Bwa = (B_{vac} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + B_{vac} / 18 lb-mole H₂O]
Qstd = (60 sec/min) * (1-Bws) * (V) * (K) * (Temp. deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMw = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kc = 24.07 dm³/10³ mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOCs as carbon
PMRg = lb/hr, pollutant mass removal rate of VOCs as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstd = flow at DSCFM
Ccm = PPMc * (Mc/Mc)
PMRc = Cc * (Qstd) * (60 min/hr)

AFVR Field Emissions Data



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
 2. Page 1 of
 3. Emergency Response Phone
 4. Waste Tracking Number

5. Generator's Name and Mailing Address
 Generator's Site Address (if different than mailing address)

50 S OKATIE HWY
 HARDEVILLE, SC 29927

Generator's Phone:

6. Transporter 1 Company Name
 T K TANK SERVICES, INC. U.S. EPA ID Number

7. Transporter 2 Company Name
 U.S. EPA ID Number

8. Designated Facility Name and Site Address
 T K TANK SERVICES INC.
 425 BOULEVARD RD.
 SUMTER, SC U.S. EPA ID Number

Facility's Phone: 803-418-5314

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1.		VAC		
2. NONHAZARDOUS PETROLEUM CONTAMINATED WATER/PRODUCT	1	Truck	3769	gal
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name: Daniel Abagoot
 Signature: [Signature]
 Month Day Year: 10 25 21

15. International Shipments
 Import to U.S. Export from U.S.
 Transporter Signature (for exports only): [Signature]
 Port of entry/exit: _____
 Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: Willie Fortune
 Signature: [Signature]
 Month Day Year: 10 25 21
 Transporter 2 Printed/Typed Name: _____
 Signature: _____
 Month Day Year: _____

17. Discrepancy
 17a. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator)
 Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____
 17c. Signature of Alternate Facility (or Generator)
 Month Day Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name: Jasmine Anderson
 Signature: [Signature]
 Month Day Year: 10 25 21

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

3,769 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY

11/25/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

No. 1067

CUSTOMER TR TANK

ADDRESS _____

DRIVER _____ ON
Signature OFF

WEIGH MASTER: _____

11:25 AM 10/25/2021

15000 lb 90Scale 11
47500 lb 91Scale 12
00 15 91Scale 13
67500 lb 9 (Total)

Empty WT 32,480



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

803-229-2528

102621

5. Generator's Name and Mailing Address

50 S OKATIE HWY
HARDEVILLE, SC 29927

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

T K TANK SERVICES, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

T K TANK SERVICES INC
425 BOULEVARD RD.
SUMTER, SC

U.S. EPA ID Number

803-418-5314

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1.

No.

Type

NONHAZARDOUS PETROLEUM CONTAMINATED WATER/PRODUCT

329

gal

2.

3.

4.

13. Special Handling Instructions and Additional Information

Call for Volume/Invoice (Daniel)
717-961-0186

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Daniel Arbogast

Signature

[Signature]

Month Day Year

10 26 21

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Daren Griffin

Signature

[Signature]

Month Day Year

10 26 21

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Jasmine Anderson

Signature

[Signature]

Month Day Year

10 26 21

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

3129 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY HARDEVILLE SC 29927

10/26/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

No. 1071

TRUCK 20

CUSTOMER TK TANK

ADDRESS _____

DRIVER _____ ON
Signature OFF

WEIGH MASTER: _____

12:48 PM 10/26/2021

10795 lb 6(Scale 1)
2440 lb 6(Scale 2)
25300 lb 6(Scale 3)
50000 lb 9 (Total)

Empty wt 33,900



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

50 S OKATIE HWY
HARDEVILLE, SC 29927

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

T K TANK SERVICES, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

T K TANK SERVICES INC.
425 BOULEVARD RD.
SUMTER, SC

U.S. EPA ID Number

803-418-5314

Facility's Phone:

9. Waste Shipping Name and Description

1. NONHAZARDOUS PETROLEUM CONTAMINATED WATER/PRODUCT

10. Containers

No. Type

11. Total Quantity

12. Unit Wt./Vol.

1-1

3839

13. Special Handling Instructions and Additional Information

call for gallons (717) 961-0186

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Daniel H. Aibgest

Signature

[Signature]

Month Day Year
11 01 21

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Willie Fortune

Signature

[Signature]

Month Day Year

11 1 21

Transporter 2 Printed/Typed Name

Signature

Month Day Year

11 1 21

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Jasmin Anderson

Signature

[Signature]

Month Day Year

11 1 21

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

3837 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY HARDEVILLE SC 29927

11/1/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

No. 1087

CUSTOMER TR TANKS
ADDRESS _____

DRIVER _____
Signature _____ ON
OFF

WEIGH MASTER: _____

11/01/2021

100 lb 6 (Scale 1)
100 lb 6 (Scale 2)
100 lb 6 (Scale 3)
300 lb 6 (Total)



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

50 S OKATIE HWY
HARDEVILLE, SC 29927

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

T K TANK SERVICES, INC.

U.S. EPA ID Number

SCR000778274

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

T K TANK SERVICES INC.
425 BOULEVARD RD.
SUMTER SC

U.S. EPA ID Number

4327958002

Facility's Phone: 803-418-5314

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1.

No.

Type

2.

NON HAZARDOUS PETROLEUM CONTAMINATED WATER

T-1 Tank

1587

gal

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Willie Fortune

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Willie Fortune

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Jasmine Anderson

Signature

Jasmine Anderson

Month Day Year

11 3 91

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

1,587 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY

11/3/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

No. 1091

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

CUSTOMER TK TANK

ADDRESS _____

DRIVER _____ ON
Signature OFF

WEIGH MASTER: _____

11:42 PM 11/02/2021

14740 lb 6(Scale 1)
31380 lb 6(Scale 2)
90 lb 6(Scale 3)
45720 lb 6 (Total)





Katawba Environmental, Inc.

December 19, 2021

Mr. Arthur Brown
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

**RE: SAMPLING REPORT
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628 CA #64377
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA**



RECEIVED
DEC 30 2021
UST DIVISION

Dear Mr. Brown:

Katawba Environmental, Inc. (Katawba) has prepared this Sampling Report for the above-referenced facility for your review. This event was conducted in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated September 20, 2021.

It is recommended that multiple AFVR events be conducted at the site as the next appropriate scope of work. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant

Sampling Report
Shreejakshani
DBA Okatie Mart
6195 S. Okatie Hwy.
Hardeeville, SC
UST Permit #10628



A handwritten signature in black ink, appearing to read "Alex W. Amos".

Alex W. Amos, CEO, PG
Senior Consultant

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1.0 INTRODUCTION

Katawba Environmental, Inc. has been contracted by Shirishi Shah to complete a comprehensive sampling event for Okatie Mart. The Subject Site (Site ID 10628) is located at 6195 S. Okatie Highway in Hardeeville, South Carolina (Appendix A, Figure 1). The subject site currently operates as a convenience store that retails petroleum products. The surrounding area is residential in use. The subject site is abutted by residential parcels to the north, east and south. An undeveloped timber tract is adjacent to the east across Okatie Highway to the east.

The release at the subject site was reported April 28, 1995. The lines and dispersers at the site were changed in November 2020. This current SOW included the sampling of all wells within the entire monitoring well network.

- Monitoring wells MW4R, MW7R, RW1, RW4 and RW5 were above the established RBSL for petroleum based constituents.
- 1.82 FT free product was associated with MW3R.
- 0.22 FT free product was associated with MW14.
- 0.29 FT free product was associated with RW3.
- 1.24 FT free product was associated with RW6.
- Suspected petroleum hydrocarbon soil staining appeared to be present in the marsh / wetland area at the time of the assessment.
- Monitoring wells MW9, MW10, MW18 and MW19 could not be located and were therefore not sampled for this scope of work.

2.0 ASSESSMENT INFORMATION

The responsible party for the subject site is Shreejakshani DBA Okatie Mart, 6195 S. Okatie Highway, Hardeeville South Carolina 29927. Shirishi Shah is the contact for Okatie Mart and can be communicated with via mail or phone at (843) 784-6194. According to Jasper County Tax Assessor records the parcel is currently owned by Shree Jakshani, LLC, 6194 S. Okatie Hwy., Hardeeville, SC 29927. The current owners purchased the parcel in 2014 from Malphrus Enterprises. The subject site is a triangular shaped parcel that is occupied by one primary structure that contains the convenience store and permitted UST system. The subject site is listed with the Jasper County Assessor's Office as TM 039-00-10-025.

Piezometric data for all monitoring wells associated with the release at the Okatie Mart site can be found in Table 1. A piezometric map was created utilizing groundwater elevations measured during sampling of the wells on November 6, 2021. The piezometric map is included as Figure 3 in Appendix A.

Depths to fluid measurements were collected relative to the top of casing for each well with the accuracy of measurements being within 0.01 foot or 1/8 inch. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.

TABLE 1 Groundwater Data (feet) Okatie Mart Site ID 10628

Monitoring Well	Date	TOC Elevation	Screened Interval (below land surface)	TOC to FP	TOC to GW	GW Elevation
MW3R	11/6/21	94.56	2-12	7.12	8.94	85.62
MW4R	11/6/21	93.75	5-15	--	6.63	87.12
MW5RR	11/6/21	92.18	2-12	--	7.19	84.99
MW7RR	11/6/21	95.80	2-12	--	6.46	89.34
MW9	11/6/21	96.73	8-18	--	NL	NL
MW10	11/6/21	93.29	2-12	--	NL	NL
MW11R	11/6/21	91.37	5-15	--	6.04	85.33
MW14	11/6/21	93.23	3.05-13.05	6.62	6.84	86.39
MW15	11/6/21	96.12	2-12	--	6.47	89.65
MW16	11/6/21	97.02	7-17	--	6.92	90.10
MW17R	11/6/21	95.87	5-15	--	6.13	89.74
MW18	11/6/21	91.34	2-12	--	NL	NL
MW19	11/6/21	93.01	2-12	--	NL	NL
MW20	11/6/21	98.84	4-14	--	7.34	91.50
MW21	11/6/21	91.45	5-15	--	6.29	85.16
MW22	11/6/21	95.94	5-15	--	7.07	88.87
DW1 (PW1)	11/6/21	93.47	30-35	--	7.07	86.40
RW1	11/6/21	96.15	2-12	--	6.59	89.56
RW2	11/6/21	93.56	2-12	--	6.17	87.39
RW3	11/6/21	93.22	2-12	6.79	7.08	86.14
RW4	11/6/21	96.05	2-15	--	6.82	89.23
RW5	11/6/21	95.60	2-15	--	6.21	89.39
RW6	11/6/21	93.07	2-15	6.95	8.19	84.88

TABLE 1A Historical Groundwater Data (feet) Okatie Mart Site ID 10628

Monitoring Well	Date	TOC Elevation	Screened Interval (below land surface)	TOC to FP	TOC to GW	GW Elevation
MW3R	4/12/21	94.56	2-12	2.32	2.70	91.86
MW4R	4/12/21	93.75	5-15	--	2.31	91.44
MW5RR	4/12/21	92.18	2-12	--	3.38	88.80
MW7RR	4/12/21	95.80	2-12	--	7.33	88.47
MW9	4/12/21	96.73	8-18	--	NL	NL
MW10	4/12/21	93.29	2-12	--	NL	NL
MW11	4/12/21	91.62	2-12	--	NL	NL
MW14	4/12/21	93.23	3.05-13.05	--	3.07	90.16
MW15	4/12/21	96.12	2-12	--	3.72	92.40
MW16	4/12/21	97.02	7-17	--	NL	NL
MW17	4/12/21	94.96	3-13	--	NL	NL
MW18	4/12/21	91.34	2-12	--	0.18	91.16
MW19	4/12/21	93.01	2-12	--	4.63	88.38
MW20	4/12/21	98.84	4-14	--	10.11	88.73
DW1 (PW1)	4/12/21	93.47	30-35	--	2.67	90.80
RW1	4/12/21	96.15	2-12	--	4.80	91.35
RW2	4/12/21	93.56	2-12	1.95	2.62	90.94
RW3	4/12/21	93.22	2-12	1.90	3.77	89.45
RW4	4/12/21	96.05	2-15	--	5.73	90.32
RW5	4/12/21	95.60	2-15	6.55	6.65	88.95
RW6	4/12/21	93.07	2-15	1.13	4.11	88.96

2.1 Groundwater Sampling

Samples were collected from monitoring wells installed during this and prior rounds of assessment. Prior to sampling each well, depths to groundwater were measured utilizing an oil/water interface probe. These measurements were used to construct a piezometric map which is located in Appendix A, as Figure 3. Groundwater was evacuated from each well utilizing a battery operated Monsoon purge pump. As directed by SCDHEC all wells were purged three volumes prior to sampling that did not effectively screen the aquifer. Sampling of wells located at the site was completed by utilizing a disposable bailer attached to a new non colored nylon line. Groundwater samples collected were placed into laboratory supplied containers and stored on ice for same day transport for analysis. Katawba personnel submitted all groundwater samples to Pace Analytical, LLC., 106 Vantage Point Drive, Cayce, SC 29033 to the attention of laboratory director Dan Wright who can be contacted at 803-791-9700. The results for the groundwater sampling analysis are as follows.

TABLE 2 Groundwater Analytical Data Okatie Mart Site ID 10628

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
RBSL	-	5 ug/l	1,000 ug/l	700 ug/l	10,000 ug/l	25 ug/l	40 ug/l	0.05 ug/l	15 ug/l	ug/l	5 ug/l
MW3R	11/6/21	FP	FP	FP	1.82	FT	FP	FP	FP	FP	FP
MW4R	11/6/21	4400	4700	860	4400	140	110	<0.020	NA	NA	93
MW5RR	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW7RR	11/6/21	5800	9700	400	9400	970	3.8	0.015 J	NA	NA	170
MW9	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW11R	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW14	11/6/21	FP	FP	FP	0.22	FT	FP	FP	FP	FP	FP
MW15	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW16	11/6/21	1.9	2.8	<1	1.5	<1	0.45 J	<0.020	NA	NA	<1
DUP	11/6/21	1.9	2.6	<1	1.3	<1	0.45 J	<0.020	NA	NA	<1
MW17	11/6/21	<1	2.6	0.65 J	0.72 J	<1	<1	0.014 J	NA	NA	<1
MW18	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW19	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW20	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW21	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW22	11/6/21	<1	0.43 J	28	38	11	<1	<0.020	NA	NA	<1
DUP	11/6/21	<1	0.40 J	28	37	11	<1	<0.020	NA	NA	<1
DW1 (PW1)	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
RW1	11/6/21	840	10000	410	9800	970	<100	0.009	NA	NA	170
RW2	11/6/21	3	3.1	0.59 J	6.6	3.3	11	<0.020	NA	NA	<1

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
RW3	11/6/21	FP	FP	FP	0.29	FT	FP	FP	FP	FP	FP
RW4	11/6/21	2500	1600	120	1300	330	4.3	0.14	NA	NA	140
RW5	11/6/21	2500	1700	120	1300	290	4.2	0.14	NA	NA	120
RW6	11/6/21	FP	FP	FP	1.24	FT	FP	FP	FP	FP	FP
POND1	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND2	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND3	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
DWW1	11/6/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
DUP	11/6/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
FB	11/6/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
FB2	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
TB	11/6/21	<1	<1	<1	<1	<1	<1	NA	NA	NA	<1

TABLE 2 Groundwater Analytical Data Okatie Mart Site ID 10628

Well ID	DATE	Isopropyl Ether (IPE) µg/L	Ethanol µg/L	3-3 Dimethyl-1 butanol µg/L	Ethyl tert-Butyl Ether µg/L (ETBE)	t- Amyl Alcohol µg/L (TAA)	Tert-Amyl Methyl Ether µg/L (TAME)	Tertiary Butyl Alcohol µg/L (TBA)	t-Butyl Formate µg/L (TBF)
RBSL		NA	NA	NA	NA	NA	NA	NA	NA
MW3R	11/6/21	FP	FP	FP	1.82 FT	FP	FP	FP	FP
MW4R	11/6/21	4.2	<100	<20	16	9200	5.2 J	3500	<5
MW5RR	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
MW7RR	11/6/21	2300	<100	<20	<1	9700	<10	220	<5
MW9	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
MW11	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
MW14	11/6/21	FP	FP	FP	0.22 FT	FP	FP	FP	FP
MW15	11/6/21	<1	<100	<20	<1	8.4 J	<10	15 J	<5
MW16	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
MW17	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
MW18	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
MW19	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
MW20	11/6/21	13	<100	<20	<1	41	<10	<20	<5
MW21	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
MW22	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5

Well ID	DATE	Isopropyl Ether (IPE) µg/L	Ethanol µg/L	3-3 Dimethyl-1 butanol µg/L	Ethyl tert-Butyl Ether µg/L (ETBE)	t- Amyl Alcohol µg/L (TAA)	Tert-Amyl Methyl Ether µg/L (TAME)	Tertiary Butyl Alcohol µg/L (TBA)	t-Butyl Formate µg/L (TBF)
RBSL		NA	NA	NA	NA	NA	NA	NA	NA
DW1 (PW1)	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
RW1	11/6/21	2200	<10000	<2000	<100	11000	<1000	<2000	<500
RW2	11/6/21	0.98 J	<100	<20	4.7	300	2.4 J	1200	<5
RW3	11/6/21	FP	FP	FP	0.29 FT	FP	FP	FP	FP
RW4	11/6/21	1100	<100	<20	<1	6900	<10	190	<5
RW5	11/6/21	1100	<100	<20	<1	6600	<10	180	<5
RW6	11/6/21	FP	FP	FP	1.24 FT	FP	FP	FP	FP
POND1	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
POND2	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
POND3	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
DWW1	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
FB	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
FB 2	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
TB	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
MW18	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW19	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW20	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW21	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW22	11/6/21	<1	0.43 J	28	38	11	<1	<0.020	NA	NA	<1
DW1 (PW1)	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
RW1	11/6/21	840	10000	410	9800	970	<100	0.009	NA	NA	170
	4/12/21	8400	2800	440	5500	1300	<100	<0.020	NA	NA	<100
RW2	11/6/21	3	3.1	0.59 J	6.6	3.3	11	<0.020	NA	NA	<1
	4/12/21	FP	FP	FP	0.67 FT	FP	FP	FP	FP	FP	FP
RW3	11/6/21	FP	FP	FP	0.29 FT	FP	FP	FP	FP	FP	FP
	4/12/21	FP	FP	FP	1.87 FT	FP	FP	FP	FP	FP	FP
RW4	11/6/21	2500	1600	120	1300	330	4.3	0.14	NA	NA	140
	4/12/21	17000	19000	1600	8400	800	<100	0.11	NA	NA	680
RW5	11/6/21	2500	1700	120	1300	290	4.2	0.14	NA	NA	120
	4/12/21	FP	FP	FP	0.10 FT	FP	FP	FP	FP	FP	FP
RW6	11/6/21	FP	FP	FP	1.24 FT	FP	FP	FP	FP	FP	FP
	4/12/21	FP	FP	FP	2.98 FT	FP	FP	FP	FP	FP	FP

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
POND1	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND2	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND3	11/6/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
	4/12/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
DWW1	11/6/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50
	4/12/21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.020	NA	NA	<0.50

TABLE 2 Groundwater Analytical Data Okatie Mart Site ID 10628

Well ID	DATE	Isopropyl Ether (IPE) µg/L	Ethanol µg/L	3-3 Dimethyl-1 butanol µg/L	Ethyl tert- Butyl Ether µg/L (ETBE)	t- Amyl Alcohol µg/L (TAA)	Tert-Amyl Methyl Ether µg/L (TAME)	Tertiary Butyl Alcohol µg/L (TBA)	t-Butyl Formate µg/L (TBF)
RBSL		NA	NA	NA	NA	NA	NA	NA	NA
MW3R	11/6/21	FP	FP	FP	1.82 FT	FP	FP	FP	FP
	4/12/21	FP	FP	FP	0.38 FT	FP	FP	FP	FP
MW4R	11/6/21	4.2	<100	<20	16	9200	5.2 J	3500	<5
	4/12/21	<50	<5000	<1000	<50	8700	<500	3500	<250
MW5RR	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
MW7RR	11/6/21	2300	<100	<20	<1	9700	<10	220	<5
	4/12/21	4700	<50000	<10000	<500	21000	<5000	<10000	<2500
MW9	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW11	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW14	11/6/21	FP	FP	FP	0.22 FT	FP	FP	FP	FP
	4/12/21	<200	<20000	<4000	<200	<4000	<2000	730 J	<1000
MW15	11/6/21	<1	<100	<20	<1	8.4 J	<10	15 J	<5
	4/12/21	<1	<100	<20	<1	<20	<10	14 J	<5
MW16	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW17	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	NL	NL	NL	NL	NL	NL	NL	NL
MW18	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
MW19	11/6/21	NL	NL	NL	NL	NL	NL	NL	NL
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5

Well ID	DATE	Isopropyl Ether (IPE) µg/L	Ethanol µg/L	3-3 Dimethyl-1 butanol µg/L	Ethyl tert-Butyl Ether µg/L (ETBE)	t- Amyl Alcohol µg/L (TAA)	Tert-Amyl Methyl Ether µg/L (TAME)	Tertiary Butyl Alcohol µg/L (TBA)	t-Butyl Formate µg/L (TBF)
MW20	11/6/21	13	<100	<20	<1	41	<10	<20	<5
	4/12/21	9.7	<100	<20	<1	14 J	<10	1.6 J	<5
MW21	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
MW22	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
DW1 (PW1)	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
RW1	11/6/21	2200	<10000	<2000	<100	11000	<1000	<2000	<500
	4/12/21	2600	<10000	<2000	<100	5600	<1000	140 J	<500
RW2	11/6/21	0.98 J	<100	<20	4.7	300	2.4 J	1200	<5
	4/12/21	FP	FP	FP	0.67 FT	FP	FP	FP	FP
RW3	11/6/21	FP	FP	FP	0.29 FT	FP	FP	FP	FP
	4/12/21	FP	FP	FP	1.87 FT	FP	FP	FP	FP
RW4	11/6/21	1100	<100	<20	<1	6900	<10	190	<5
	4/12/21	4500	<10000	<2000	<100	22000	<1000	1100 J	<500
RW5	11/6/21	1100	<100	<20	<1	6600	<10	180	<5
	4/12/21	FP	FP	FP	0.10 FT	FP	FP	FP	FP
RW6	11/6/21	FP	FP	FP	1.24 FT	FP	FP	FP	FP
	4/12/21	FP	FP	FP	2.98 FT	FP	FP	FP	FP

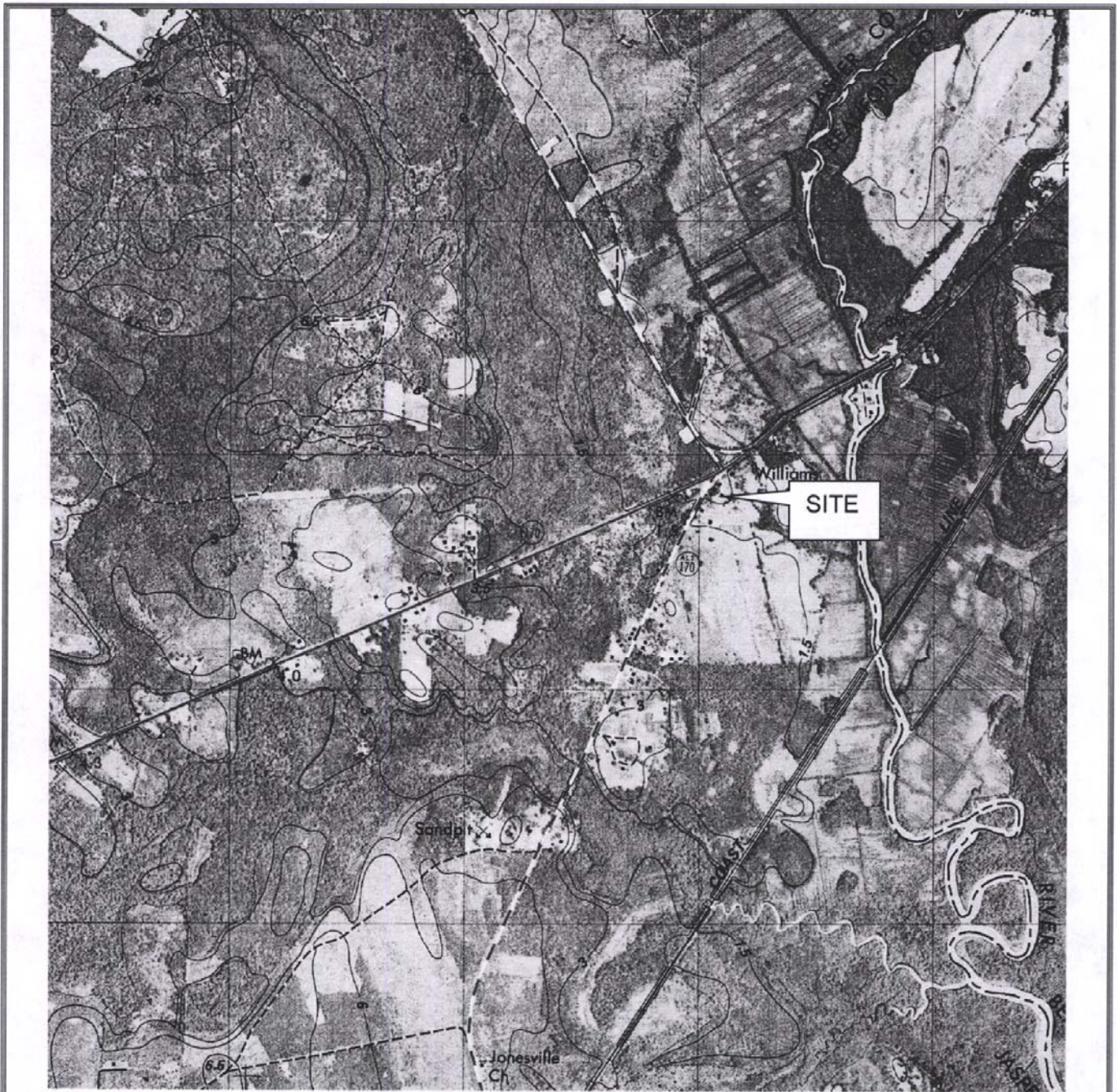
Well ID	DATE	Isopropyl Ether (IPE) $\mu\text{g/L}$	Ethanol $\mu\text{g/L}$	3-3 Dimethyl-1 butanol $\mu\text{g/L}$	Ethyl tert-Butyl Ether $\mu\text{g/L}$ (ETBE)	t- Amyl Alcohol $\mu\text{g/L}$ (TAA)	Tert-Amyl Methyl Ether $\mu\text{g/L}$ (TAME)	Tertiary Butyl Alcohol $\mu\text{g/L}$ (TBA)	t-Butyl Formate $\mu\text{g/L}$ (TBF)
POND1	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
POND2	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
POND3	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5
DWW1	11/6/21	<1	<100	<20	<1	<20	<10	<20	<5
	4/12/21	<1	<100	<20	<1	<20	<10	<20	<5

3.0 CONCLUSIONS

The purpose of this sampling event was to document petroleum hydrocarbon contamination trends. It is recommended that an additional sampling event be conducted at the subject site as the next scope of work. Findings of the sampling event are as follows:

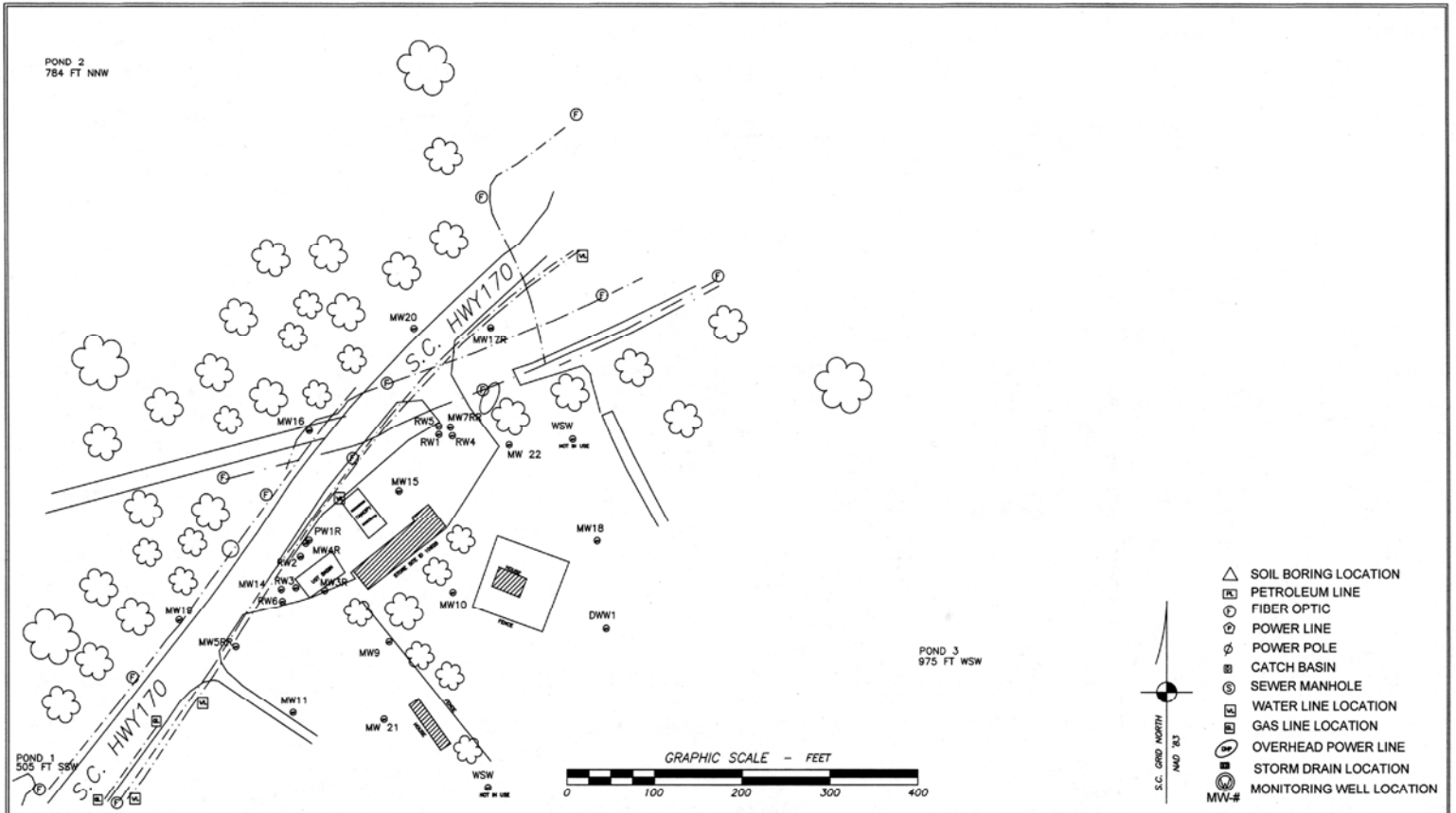
- Monitoring wells MW4R, MW7R, RW1, RW4 and RW5 were above the established RBSL for petroleum based constituents.
- 1.82 FT free product was associated with MW3R.
- 0.22 FT free product was associated with MW14.
- 0.29 FT free product was associated with RW3.
- 1.24 FT free product was associated with RW6.
- Suspected petroleum hydrocarbon soil staining appeared to be present in the marsh / wetland area at the time of the assessment.
- Monitoring wells MW9, MW10, MW18 and MW19 could not be located and were therefore not sampled for this scope of work.
- Multiple AFVRs are recommended as the next scope of work.

APPENDIX A
FIGURES



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

SAMPLING REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP

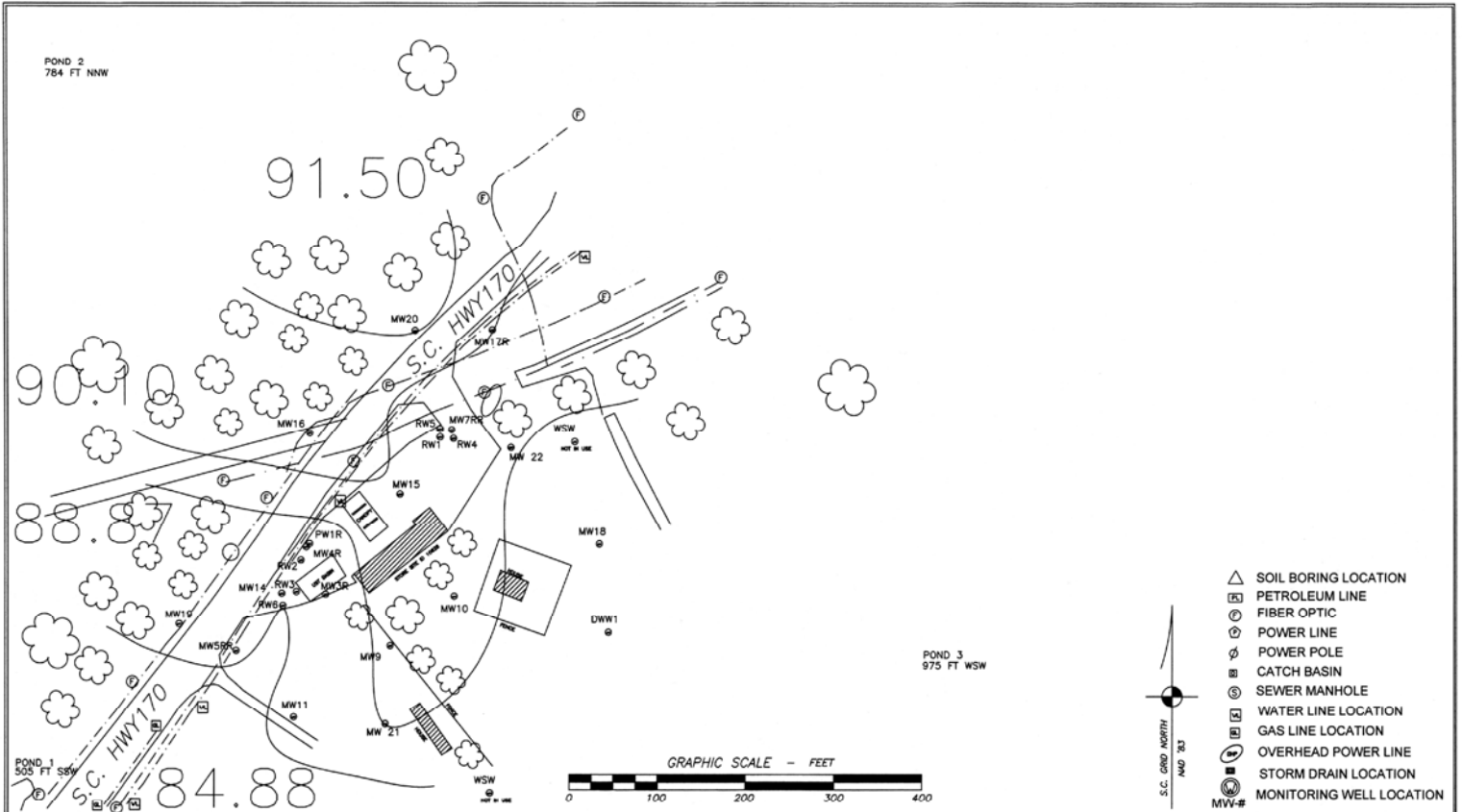


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SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2

SITE MAP



KATAWBA ENVIRONMENTAL, INC.
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FIGURE 3
PIEZOMETRIC MAP

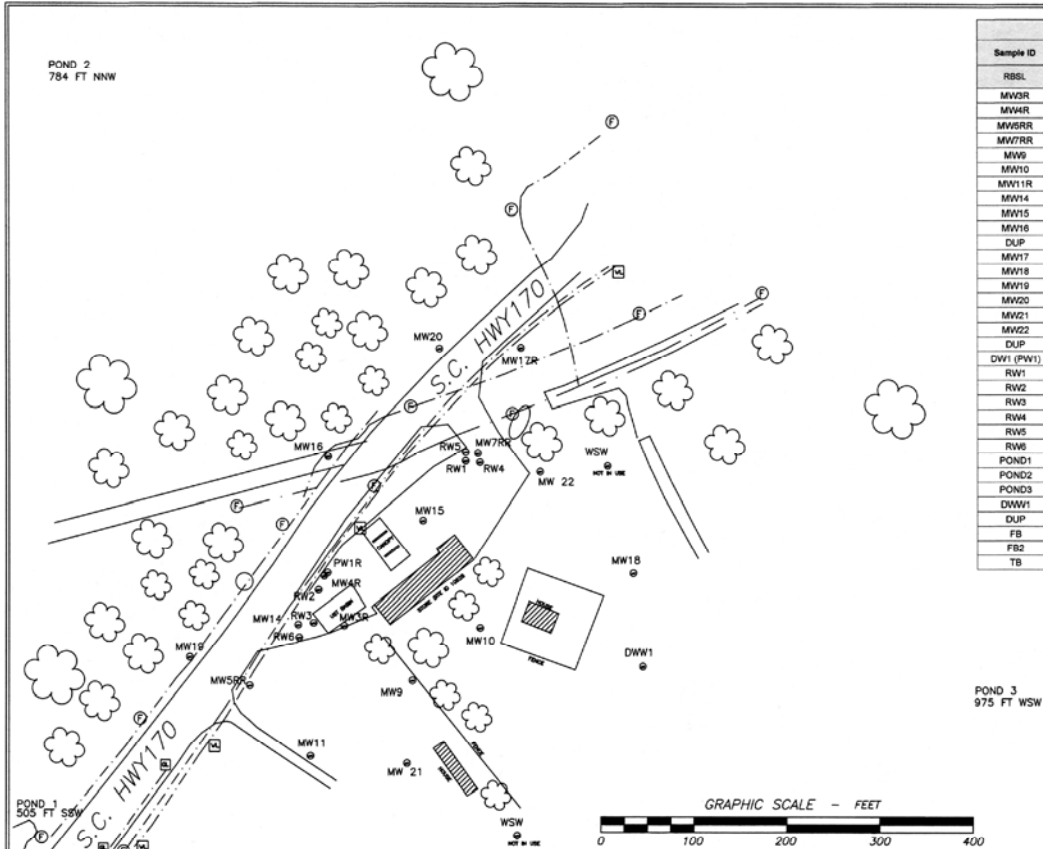


TABLE 2 Groundwater Analytical Data Okatie Mart ID 10628

Sample ID	Date Sampled	Benzene 5 ug/l	Toluene 1,000 ug/l	Ethyl- benzene 700 ug/l	Total Xylenes 10,000 ug/l	Naphth alene 25 ug/l	MTBE 40 ug/l	EDB 0.05 ug/l	Lead 15 ug/l	PAH (total) ug/l	1-2 DCA ug/l
RBSL	-	-	-	-	-	-	-	-	-	-	-
MW2R	11/8/21	FP	FP	FP	1.82	FT	FP	FP	FP	FP	FP
MW4R	11/8/21	4400	4700	860	4400	140	110	<0.020	NA	NA	93
MW6RR	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW7RR	11/8/21	5800	9700	400	9400	970	3.8	0.015	NA	NA	170
MW9	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW11R	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW14	11/8/21	FP	FP	FP	0.22	FT	FP	FP	FP	FP	FP
MW15	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW16	11/8/21	1.9	2.8	<1	1.5	<1	0.45 J	<0.020	NA	NA	<1
DUP	11/8/21	1.9	2.8	<1	1.3	<1	0.45 J	<0.020	NA	NA	<1
MW17	11/8/21	<1	2.8	0.65 J	0.72 J	<1	<1	0.014	NA	NA	<1
MW18	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW19	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW20	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW21	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
MW22	11/8/21	<1	0.43 J	28	38	11	<1	<0.020	NA	NA	<1
DUP	11/8/21	<1	0.40 J	28	37	11	<1	<0.020	NA	NA	<1
DW1 (PW1)	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
RW1	11/8/21	840	10000	410	8800	970	<100	0.009	NA	NA	170
RW2	11/8/21	3	3.1	0.59 J	6.6	3.3	11	<0.020	NA	NA	<1
RW3	11/8/21	FP	FP	FP	0.28	FT	FP	FP	FP	FP	FP
RW4	11/8/21	2500	1600	120	1300	330	4.3	0.14	NA	NA	140
RW5	11/8/21	2500	1700	120	1300	290	4.2	0.14	NA	NA	120
RW6	11/8/21	FP	FP	FP	1.24	FT	FP	FP	FP	FP	FP
POND1	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND2	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
POND3	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
DW1	11/8/21	-0.50	+0.50	+0.50	+0.50	-0.50	+0.50	+0.50	NA	NA	-0.50
DUP	11/8/21	-0.50	+0.50	+0.50	+0.50	-0.50	+0.50	+0.50	NA	NA	-0.50
FB	11/8/21	-0.50	+0.50	+0.50	+0.50	-0.50	+0.50	+0.50	NA	NA	-0.50
FB2	11/8/21	<1	<1	<1	<1	<1	<1	<0.020	NA	NA	<1
TB	11/8/21	<1	<1	<1	<1	<1	<1	NA	NA	NA	<1

- △ SOIL BORING LOCATION
- ▣ PETROLEUM LINE
- ⊕ FIBER OPTIC
- ⊕ POWER LINE
- ⊕ POWER POLE
- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
- ⊕ WATER LINE LOCATION
- ⊕ GAS LINE LOCATION
- ⊕ OVERHEAD POWER LINE
- ⊕ STORM DRAIN LOCATION
- ⊕ MW# MONITORING WELL LOCATION

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SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 4
CONTAMINATION MAP

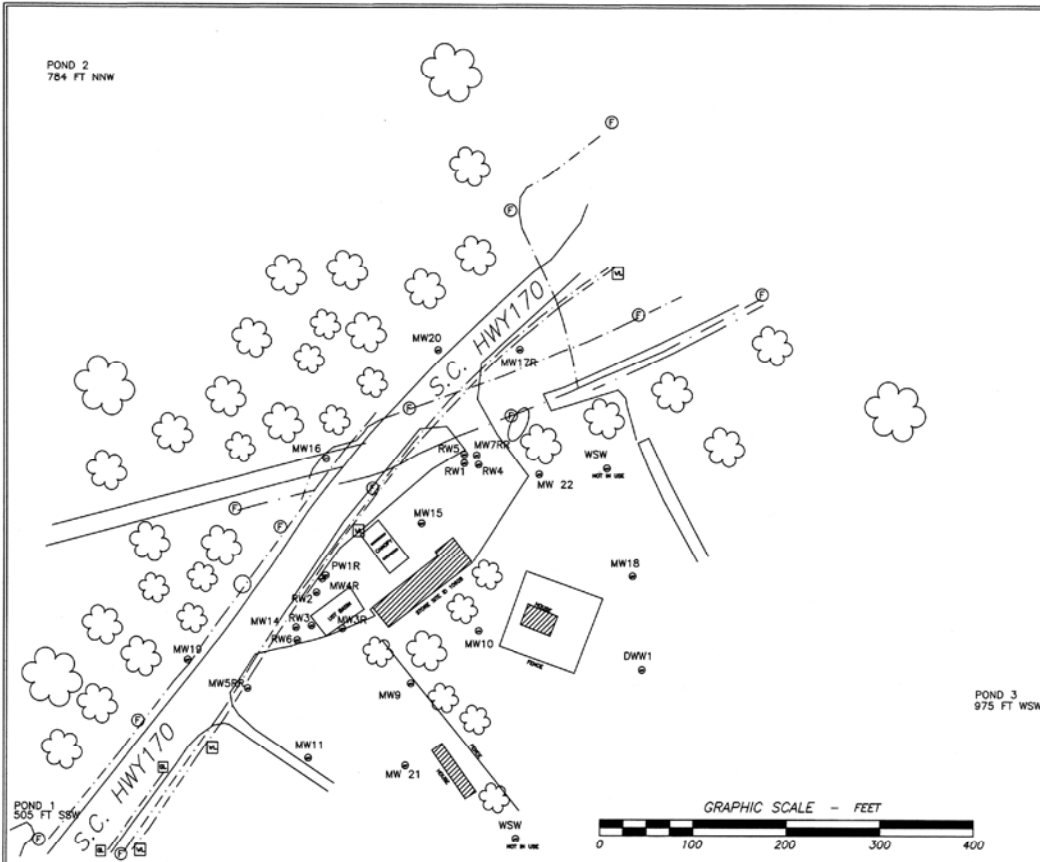


TABLE 2 Groundwater Analytical Data Okatie Mart 10628

Well ID	DATE	Isomethyl Ether (PE) µg/L	Ethance µg/L	3,3 Dimethyl-1 Butane µg/L	Ethyl tert-Butyl Ether µg/L (ETBE)	1-Anyil Alcohol µg/L (TAA)	Ten-Anyil Methyl Ether µg/L (TAME)	Tertiary Butyl Alcohol µg/L (TBA)	1-Butyl Formate µg/L (TBF)
MBBL	11/8/21	NA	NA	NA	NA	NA	NA	NA	NA
MW5R	11/8/21	FP	FP	FP	1.82 FT	FP	FP	FP	FP
MW4R	11/8/21	4.2	<100	<20	16	8300	5.2 J	3500	<5
MW5RR	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
MW7RR	11/8/21	2300	<100	<20	<1	9700	<10	220	<5
MW9	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL
MW11	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
MW14	11/8/21	FP	FP	FP	0.22 FT	FP	FP	FP	FP
MW15	11/8/21	<1	<100	<20	<1	8.4 J	<10	15 J	<5
MW16	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
MW17	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
MW18	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL
MW19	11/8/21	NL	NL	NL	NL	NL	NL	NL	NL
MW20	11/8/21	13	<100	<20	<1	41	<10	<20	<5
MW21	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
MW22	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
(DW1 (PW1))	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
RW1	11/8/21	2200	<10000	<2000	<100	11000	<1000	<2000	<500
RW2	11/8/21	0.98 J	<100	<20	4.7	300	2.4 J	1200	<5
RW3	11/8/21	FP	FP	FP	0.29 FT	FP	FP	FP	FP
RW4	11/8/21	1100	<100	<20	<1	6900	<10	190	<5
RW5	11/8/21	1100	<100	<20	<1	6600	<10	180	<5
RW6	11/8/21	FP	FP	FP	1.84 FT	FP	FP	FP	FP
POND1	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
POND2	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
POND3	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
DW1	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
DUP	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
FB	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
FB 2	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5
TB	11/8/21	<1	<100	<20	<1	<20	<10	<20	<5

- △ SOIL BORING LOCATION
- ▭ PETROLEUM LINE
- ⊕ FIBER OPTIC
- ⊙ POWER LINE
- ⊙ POWER POLE
- ⊙ CATCH BASIN
- ⊙ SEWER MANHOLE
- ⊙ WATER LINE LOCATION
- ⊙ GAS LINE LOCATION
- ⊙ OVERHEAD POWER LINE
- ⊙ STORM DRAIN LOCATION
- ⊙ MW-# MONITORING WELL LOCATION

KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 4
CONTAMINATION MAP

APPENDIX B
ANALYTICAL DATA



Report of Analysis

Katawba Environmental, Inc.
4278 Dye Rd.
Edgemore, SC 29712
Attention: Alex Amos

Project Name: Okatie Mart

Lot Number: **WK13011**

Date Completed: 12/01/2021

12/02/2021 3:49 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Katawba Environmental, Inc. Lot Number: WK13011

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

VOCs by GC/MS

The following samples were analyzed with headspace in the sample vial because sample was previously analyzed: WK13011-016, WK13011-017. The vial with the least amount of headspace has been used for analysis.

Reanalysis of the following samples was performed outside of the analytical holding time: WK13011-016, WK13011-017 rerun out of hold for dilution, WK13011-018 rerun out of hold to confirm carry over.

EDB by Microextraction

Samples -004 and -014 have been qualified with a "P" as the relative percent difference between the two GC columns exceeds method criteria. Per SCDHEC, the lesser of the two values have been reported.

Subcontracted Analysis

The analysis of VOCs by 524.2 has been performed by Pace Huntersville. This data has been ammended to this report.

PACE ANALYTICAL SERVICES, LLC

Sample Summary Katawba Environmental, Inc. Lot Number: WK13011

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	10628 PW1R	Aqueous	11/06/2021 0723	11/10/2021
002	10628 MW4R	Aqueous	11/06/2021 0810	11/10/2021
003	10628 MW5R	Aqueous	11/06/2021 0849	11/10/2021
004	10628 MW7R	Aqueous	11/06/2021 1359	11/10/2021
005	10628 MW11	Aqueous	11/06/2021 0932	11/10/2021
006	10628 MW15	Aqueous	11/06/2021 1158	11/10/2021
007	10628 MW16	Aqueous	11/06/2021 1037	11/10/2021
008	10628 MW16 DUP	Aqueous	11/06/2021 1039	11/10/2021
009	10628 MW17	Aqueous	11/06/2021 1130	11/10/2021
010	10628 MW20	Aqueous	11/06/2021 1103	11/10/2021
011	10628 MW21	Aqueous	11/06/2021 0954	11/10/2021
012	10628 MW22	Aqueous	11/06/2021 1236	11/10/2021
013	10628 MW22 DUP	Aqueous	11/06/2021 1238	11/10/2021
014	10628 RW1	Aqueous	11/06/2021 1420	11/10/2021
015	10628 RW2	Aqueous	11/06/2021 1618	11/10/2021
016	10628 RW4	Aqueous	11/06/2021 1450	11/10/2021
017	10628 RW5	Aqueous	11/06/2021 1528	11/10/2021
018	10628 POND 1	Aqueous	11/06/2021 1643	11/10/2021
019	10628 POND 2	Aqueous	11/06/2021 1707	11/10/2021
020	10628 POND 3	Aqueous	11/06/2021 1725	11/10/2021
021	10628 DWW1	Aqueous	11/06/2021 1740	11/10/2021
022	10628 DWW1 DUP	Aqueous	11/06/2021 1742	11/10/2021
023	10628 FB1	Aqueous	11/06/2021 1731	11/10/2021
024	10628 FB2	Aqueous	11/06/2021 1749	11/10/2021
025	10628 TB	Aqueous	11/06/2021 1810	11/10/2021

(25 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary Katawba Environmental, Inc. Lot Number: WK13011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	10628 MW4R	Aqueous	tert-Amyl alcohol (TAA)	8260D	9200		ug/L	7
002	10628 MW4R	Aqueous	tert-Amyl methyl ether	8260D	5.2	J	ug/L	7
002	10628 MW4R	Aqueous	Benzene	8260D	4400		ug/L	7
002	10628 MW4R	Aqueous	1,2-Dichloroethane	8260D	93		ug/L	7
002	10628 MW4R	Aqueous	Diisopropyl ether (IPE)	8260D	4.2		ug/L	7
002	10628 MW4R	Aqueous	Ethylbenzene	8260D	860		ug/L	7
002	10628 MW4R	Aqueous	Ethyl-tert-butyl ether (ETBE)	8260D	16		ug/L	7
002	10628 MW4R	Aqueous	Methyl tertiary butyl ether	8260D	110		ug/L	7
002	10628 MW4R	Aqueous	Naphthalene	8260D	140		ug/L	7
002	10628 MW4R	Aqueous	tert-butyl alcohol (TBA)	8260D	3500		ug/L	7
002	10628 MW4R	Aqueous	Toluene	8260D	4700		ug/L	7
002	10628 MW4R	Aqueous	Xylenes (total)	8260D	4400		ug/L	7
004	10628 MW7R	Aqueous	tert-Amyl alcohol (TAA)	8260D	9700		ug/L	9
004	10628 MW7R	Aqueous	Benzene	8260D	5800		ug/L	9
004	10628 MW7R	Aqueous	1,2-Dichloroethane	8260D	170		ug/L	9
004	10628 MW7R	Aqueous	Diisopropyl ether (IPE)	8260D	2300		ug/L	9
004	10628 MW7R	Aqueous	Ethylbenzene	8260D	400		ug/L	9
004	10628 MW7R	Aqueous	Methyl tertiary butyl ether	8260D	3.8		ug/L	9
004	10628 MW7R	Aqueous	Naphthalene	8260D	970		ug/L	9
004	10628 MW7R	Aqueous	tert-butyl alcohol (TBA)	8260D	220		ug/L	9
004	10628 MW7R	Aqueous	Toluene	8260D	9700		ug/L	9
004	10628 MW7R	Aqueous	Xylenes (total)	8260D	9400		ug/L	9
004	10628 MW7R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.015	JP	ug/L	9
006	10628 MW15	Aqueous	tert-Amyl alcohol (TAA)	8260D	8.4	J	ug/L	11
006	10628 MW15	Aqueous	tert-butyl alcohol (TBA)	8260D	15	J	ug/L	11
007	10628 MW16	Aqueous	Benzene	8260D	1.9		ug/L	12
007	10628 MW16	Aqueous	Methyl tertiary butyl ether	8260D	0.45	J	ug/L	12
007	10628 MW16	Aqueous	Toluene	8260D	2.8		ug/L	12
007	10628 MW16	Aqueous	Xylenes (total)	8260D	1.5		ug/L	12
008	10628 MW16 DUP	Aqueous	Benzene	8260D	1.9		ug/L	13
008	10628 MW16 DUP	Aqueous	Methyl tertiary butyl ether	8260D	0.45	J	ug/L	13
008	10628 MW16 DUP	Aqueous	Toluene	8260D	2.6		ug/L	13
008	10628 MW16 DUP	Aqueous	Xylenes (total)	8260D	1.3		ug/L	13
009	10628 MW17	Aqueous	Ethylbenzene	8260D	0.65	J	ug/L	14
009	10628 MW17	Aqueous	Toluene	8260D	2.6		ug/L	14
009	10628 MW17	Aqueous	Xylenes (total)	8260D	0.72	J	ug/L	14
009	10628 MW17	Aqueous	1,2-Dibromoethane (EDB)	8011	0.014	J	ug/L	14
010	10628 MW20	Aqueous	tert-Amyl alcohol (TAA)	8260D	41		ug/L	15
010	10628 MW20	Aqueous	Diisopropyl ether (IPE)	8260D	13		ug/L	15
012	10628 MW22	Aqueous	Ethylbenzene	8260D	28		ug/L	17
012	10628 MW22	Aqueous	Naphthalene	8260D	11		ug/L	17
012	10628 MW22	Aqueous	Toluene	8260D	0.43	J	ug/L	17
012	10628 MW22	Aqueous	Xylenes (total)	8260D	38		ug/L	17
013	10628 MW22 DUP	Aqueous	Ethylbenzene	8260D	28		ug/L	18
013	10628 MW22 DUP	Aqueous	Naphthalene	8260D	11		ug/L	18

Detection Summary (Continued)

Lot Number: WK13011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
013	10628 MW22 DUP	Aqueous	Toluene	8260D	0.40	J	ug/L	18
013	10628 MW22 DUP	Aqueous	Xylenes (total)	8260D	37		ug/L	18
014	10628 RW1	Aqueous	tert-Amyl alcohol (TAA)	8260D	11000		ug/L	19
014	10628 RW1	Aqueous	Benzene	8260D	840	H	ug/L	19
014	10628 RW1	Aqueous	1,2-Dichloroethane	8260D	170		ug/L	19
014	10628 RW1	Aqueous	Diisopropyl ether (IPE)	8260D	2200		ug/L	19
014	10628 RW1	Aqueous	Ethylbenzene	8260D	410		ug/L	19
014	10628 RW1	Aqueous	Naphthalene	8260D	970		ug/L	19
014	10628 RW1	Aqueous	Toluene	8260D	10000		ug/L	19
014	10628 RW1	Aqueous	Xylenes (total)	8260D	9800		ug/L	19
014	10628 RW1	Aqueous	1,2-Dibromoethane (EDB)	8011	0.0099	JP	ug/L	19
015	10628 RW2	Aqueous	tert-Amyl alcohol (TAA)	8260D	300		ug/L	20
015	10628 RW2	Aqueous	tert-Amyl methyl ether	8260D	2.4	J	ug/L	20
015	10628 RW2	Aqueous	Benzene	8260D	3.0		ug/L	20
015	10628 RW2	Aqueous	Diisopropyl ether (IPE)	8260D	0.98	J	ug/L	20
015	10628 RW2	Aqueous	Ethylbenzene	8260D	0.59	J	ug/L	20
015	10628 RW2	Aqueous	Ethyl-tert-butyl ether (ETBE)	8260D	4.7		ug/L	20
015	10628 RW2	Aqueous	Methyl tertiary butyl ether	8260D	11		ug/L	20
015	10628 RW2	Aqueous	Naphthalene	8260D	3.3		ug/L	20
015	10628 RW2	Aqueous	tert-butyl alcohol (TBA)	8260D	1200		ug/L	20
015	10628 RW2	Aqueous	Toluene	8260D	3.1		ug/L	20
015	10628 RW2	Aqueous	Xylenes (total)	8260D	6.6		ug/L	20
016	10628 RW4	Aqueous	tert-Amyl alcohol (TAA)	8260D	6900	H	ug/L	21
016	10628 RW4	Aqueous	Benzene	8260D	2500	H	ug/L	21
016	10628 RW4	Aqueous	1,2-Dichloroethane	8260D	140		ug/L	21
016	10628 RW4	Aqueous	Diisopropyl ether (IPE)	8260D	1100	H	ug/L	21
016	10628 RW4	Aqueous	Ethylbenzene	8260D	120	H	ug/L	21
016	10628 RW4	Aqueous	Methyl tertiary butyl ether	8260D	4.3		ug/L	21
016	10628 RW4	Aqueous	Naphthalene	8260D	330	H	ug/L	21
016	10628 RW4	Aqueous	tert-butyl alcohol (TBA)	8260D	190		ug/L	21
016	10628 RW4	Aqueous	Toluene	8260D	1600	H	ug/L	21
016	10628 RW4	Aqueous	Xylenes (total)	8260D	1300	H	ug/L	21
016	10628 RW4	Aqueous	1,2-Dibromoethane (EDB)	8011	0.14		ug/L	21
017	10628 RW5	Aqueous	tert-Amyl alcohol (TAA)	8260D	6600	H	ug/L	22
017	10628 RW5	Aqueous	Benzene	8260D	2500	H	ug/L	22
017	10628 RW5	Aqueous	1,2-Dichloroethane	8260D	120	S	ug/L	22
017	10628 RW5	Aqueous	Diisopropyl ether (IPE)	8260D	1100	H	ug/L	22
017	10628 RW5	Aqueous	Ethylbenzene	8260D	120	H	ug/L	22
017	10628 RW5	Aqueous	Methyl tertiary butyl ether	8260D	4.2		ug/L	22
017	10628 RW5	Aqueous	Naphthalene	8260D	290	H	ug/L	22
017	10628 RW5	Aqueous	tert-butyl alcohol (TBA)	8260D	180		ug/L	22
017	10628 RW5	Aqueous	Toluene	8260D	1700	H	ug/L	22
017	10628 RW5	Aqueous	Xylenes (total)	8260D	1300	H	ug/L	22
017	10628 RW5	Aqueous	1,2-Dibromoethane (EDB)	8011	0.14		ug/L	22

(89 detections)

Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-001**Description: **10628 PW1R**Matrix: **Aqueous**Date Sampled: **11/06/2021 0723**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0034	BBW		22899

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1307	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Description: **10628 MW4R**Matrix: **Aqueous**Date Sampled: **11/06/2021 0810**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0056	BBW		22899
2	5030B	8260D	50	11/19/2021 1740	SDC		23124

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	9200		1000	400	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	5.2	J	10	0.42	ug/L	1
Benzene	71-43-2	8260D	4400		50	20	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	93		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	4.2		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	860		50	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	16		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	110		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	140		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	3500		20	8.0	ug/L	1
Toluene	108-88-3	8260D	4700		50	20	ug/L	2
Xylenes (total)	1330-20-7	8260D	4400		50	20	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130		81	70-130
Toluene-d8		106	70-130		104	70-130
Bromofluorobenzene		104	70-130		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1318	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 MW5R**Matrix: **Aqueous**Date Sampled: **11/06/2021 0849**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0118	BBW		22899
2	5030B	8260D	1	11/19/2021 1316	SDC		23124

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	2
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	2

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
1,2-Dichloroethane-d4	94	70-130	84	70-130
Toluene-d8	101	70-130	101	70-130
Bromofluorobenzene	116	70-130	100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1329	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Run 1	
	Q	% Recovery
1,1,1,2-Tetrachloroethane	114	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 MW7R**Matrix: **Aqueous**Date Sampled: **11/06/2021 1359**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0139	BBW		22899
2	5030B	8260D	50	11/19/2021 1802	SDC		23124

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	9700		1000	400	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	5800		50	20	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	170		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	2300		50	20	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	400		50	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	3.8		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	970		50	20	ug/L	2
tert-butyl alcohol (TBA)	75-85-0	8260D	220		20	8.0	ug/L	1
Toluene	108-88-3	8260D	9700		50	20	ug/L	2
Xylenes (total)	1330-20-7	8260D	9400		50	20	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130		81	70-130
Toluene-d8		113	70-130		103	70-130
Bromofluorobenzene		83	70-130		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1340	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.015	JP	0.020	0.0050	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		122	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 MW11**Matrix: **Aqueous**Date Sampled: **11/06/2021 0932**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0201	BBW		22899
2	5030B	8260D	1	11/19/2021 1309	JMM2		23123

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	2
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130		95	70-130
Toluene-d8		104	70-130		95	70-130
Bromofluorobenzene		99	70-130		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1351	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-006**Description: **10628 MW15**Matrix: **Aqueous**Date Sampled: **11/06/2021 1158**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0224	BBW		22899
2	5030B	8260D	1	11/19/2021 1334	JMM2		23123

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	8.4	J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	15	J	20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130		95	70-130
Toluene-d8		92	70-130		93	70-130
Bromofluorobenzene		98	70-130		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1401	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 MW16**Matrix: **Aqueous**Date Sampled: **11/06/2021 1037**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0247	BBW		22899
2	5030B	8260D	1	11/19/2021 1359	JMM2		23123

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	1.9		1.0	0.40	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.45	J	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	2.8		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	1.5		1.0	0.40	ug/L	1

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
1,2-Dichloroethane-d4		80		94
Toluene-d8		104		94
Bromofluorobenzene		98		95

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1412	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Run 1	
	Q	% Recovery
1,1,1,2-Tetrachloroethane		108

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 MW16 DUP**Matrix: **Aqueous**Date Sampled: **11/06/2021 1039**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0309	BBW		22899
2	5030B	8260D	1	11/19/2021 1424	JMM2		23123

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	1.9		1.0	0.40	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.45	J	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	2.6		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	1.3		1.0	0.40	ug/L	1

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
1,2-Dichloroethane-d4		78		94
Toluene-d8		106		93
Bromofluorobenzene		96		91

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1423	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Run 1	
	Q	% Recovery
1,1,1,2-Tetrachloroethane		108

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 MW17**Matrix: **Aqueous**Date Sampled: **11/06/2021 1130**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0330	BBW		22899

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	0.65	J	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	2.6		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	0.72	J	1.0	0.40	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1434	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.014	J	0.020	0.0050	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,1,1,2-Tetrachloroethane		101	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-010**Description: **10628 MW20**Matrix: **Aqueous**Date Sampled: **11/06/2021 1103**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0352	BBW		22899

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	41		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	13		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		104	70-130
Bromofluorobenzene		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1445	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

LOQ = Limit of Quantitation
 ND = Not detected at or above the DL
 H = Out of holding time
 B = Detected in the method blank
 N = Recovery is out of criteria
 W = Reported on wet weight basis
 E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 DL = Detection Limit
 J = Estimated result < LOQ and ≥ DL
 Q = Surrogate failure
 L = LCS/LCSD failure
 S = MS/MSD failure

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Description: **10628 MW21**Matrix: **Aqueous**Date Sampled: **11/06/2021 0954**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0414	BBW		22899

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		103	70-130
Bromofluorobenzene		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1455	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,1,1,2-Tetrachloroethane		107	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-012**Description: **10628 MW22**Matrix: **Aqueous**Date Sampled: **11/06/2021 1236**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260D	1	11/18/2021 0436	BBW		22899				
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run			
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1			
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1			
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1			
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1			
Ethylbenzene	100-41-4	8260D	28		1.0	0.40	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1			
Naphthalene	91-20-3	8260D	11		1.0	0.40	ug/L	1			
tert-butyl alcohol (TBA)	75-85-0	8260D	ND		20	8.0	ug/L	1			
Toluene	108-88-3	8260D	0.43	J	1.0	0.40	ug/L	1			
Xylenes (total)	1330-20-7	8260D	38		1.0	0.40	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		78	70-130								
Toluene-d8		104	70-130								
Bromofluorobenzene		99	70-130								

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	8011	8011	1	11/22/2021 1506	DAL1	11/18/2021 1509	22989				
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run			
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,1,1,2-Tetrachloroethane		116	57-137								

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Description: **10628 MW22 DUP**Matrix: **Aqueous**Date Sampled: **11/06/2021 1238**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0458	BBW		22899

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	28		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	11		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	0.40	J	1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	37		1.0	0.40	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,2-Dichloroethane-d4		82	70-130
Toluene-d8		104	70-130
Bromofluorobenzene		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1517	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
1,1,1,2-Tetrachloroethane		101	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 RW1**Matrix: **Aqueous**Date Sampled: **11/06/2021 1420**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	100	11/18/2021 0541	BBW		22899
3	5030B	8260D	100	11/30/2021 1944	JMM2		24044

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	11000		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		1000	42	ug/L	1
Benzene	71-43-2	8260D	840	H	100	40	ug/L	3
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	170		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	2200		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1
Ethylbenzene	100-41-4	8260D	410		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		100	40	ug/L	1
Naphthalene	91-20-3	8260D	970		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		2000	800	ug/L	1
Toluene	108-88-3	8260D	10000		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260D	9800		100	40	ug/L	1

Surrogate	Run 1			Run 3		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130	H	92	70-130
Toluene-d8		104	70-130	H	100	70-130
Bromofluorobenzene		97	70-130	H	96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1528	DAL1	11/18/2021 1509	22989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.0099	JP	0.020	0.0050	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 RW2**Matrix: **Aqueous**Date Sampled: **11/06/2021 1618**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 0520	BBW		22899

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	300		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	2.4	J	10	0.42	ug/L	1
Benzene	71-43-2	8260D	3.0		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	0.98	J	1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	0.59	J	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	4.7		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	11		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	3.3		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	1200		20	8.0	ug/L	1
Toluene	108-88-3	8260D	3.1		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	6.6		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		104	70-130
Bromofluorobenzene		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1647	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 RW4**Matrix: **Aqueous**Date Sampled: **11/06/2021 1450**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0029	BBW		23055
2	5030B	8260D	50	11/22/2021 1852	JMM2		23355

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	6900	H	1000	400	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	2500	H	50	20	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	140		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	1100	H	50	20	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	120	H	50	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	4.3		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	330	H	50	20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	190		20	8.0	ug/L	1
Toluene	108-88-3	8260D	1600	H	50	20	ug/L	2
Xylenes (total)	1330-20-7	8260D	1300	H	50	20	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130	H	87	70-130
Toluene-d8		108	70-130	H	95	70-130
Bromofluorobenzene		108	70-130	H	94	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1657	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.14		0.020	0.0050	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		111	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Description: **10628 RW5**Matrix: **Aqueous**Date Sampled: **11/06/2021 1528**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0051	BBW		23055
2	5030B	8260D	50	11/22/2021 1917	JMM2		23355

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	6600	H	1000	400	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	2500	H	50	20	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND	S	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	120	S	1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	1100	H	50	20	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	120	H	50	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	4.2		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	290	H	50	20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	180		20	8.0	ug/L	1
Toluene	108-88-3	8260D	1700	H	50	20	ug/L	2
Xylenes (total)	1330-20-7	8260D	1300	H	50	20	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130	H	86	70-130
Toluene-d8		106	70-130	H	95	70-130
Bromofluorobenzene		103	70-130	H	95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1719	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.14		0.020	0.0049	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis

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Description: **10628 POND 1**Matrix: **Aqueous**Date Sampled: **11/06/2021 1643**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0113	BBW		23055
2	5030B	8260D	1	11/22/2021 1306	JMM2		23355

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND	H	1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND	H	1.0	0.40	ug/L	2
Xylenes (total)	1330-20-7	8260D	ND	H	1.0	0.40	ug/L	2

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130	H	89	70-130
Toluene-d8		102	70-130	H	94	70-130
Bromofluorobenzene		99	70-130	H	92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1741	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Run 1		
	Q	% Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Description: **10628 POND 2**Matrix: **Aqueous**Date Sampled: **11/06/2021 1707**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0135	BBW		23055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1751	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-020**Description: **10628 POND 3**Matrix: **Aqueous**Date Sampled: **11/06/2021 1725**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0157	BBW		23055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		101	70-130
Bromofluorobenzene		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1802	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-021**Description: **10628 DWW1**Matrix: **Aqueous**Date Sampled: **11/06/2021 1740**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0219	BBW		23055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	11/19/2021 1437	CMF	11/18/2021 1503	22992

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-022**Description: **10628 DWW1 DUP**Matrix: **Aqueous**Date Sampled: **11/06/2021 1742**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/19/2021 0241	BBW		23055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-85-0	8260D	ND		20	8.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		100	70-130
Bromofluorobenzene		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	11/19/2021 1449	CMF	11/18/2021 1503	22992

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and \geq DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Description: **10628 FB1**Matrix: **Aqueous**Date Sampled: **11/06/2021 1731**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 2323	BBW		23055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-85-0	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	11/22/2021 1813	DAL1	11/18/2021 1520	22990

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-024**Description: **10628 FB2**Matrix: **Aqueous**Date Sampled: **11/06/2021 1749**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	11/18/2021 2345	BBW		23055

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	11/19/2021 1501	CMF	11/18/2021 1503	22992

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**Laboratory ID: **WK13011-025**Description: **10628 TB**Matrix: **Aqueous**Date Sampled: **11/06/2021 1810**Date Received: **11/10/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	11/19/2021 0007	BBW		23055		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1	
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1	
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Toluene-d8		101	70-130						
Bromofluorobenzene		100	70-130						

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22899-001

Matrix: Aqueous

Batch: 22899

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/17/2021 2141
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/17/2021 2141
Benzene	ND		1	1.0	0.40	ug/L	11/17/2021 2141
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/17/2021 2141
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	11/17/2021 2141
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/17/2021 2141
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/17/2021 2141
Ethanol	ND		1	100	52	ug/L	11/17/2021 2141
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/17/2021 2141
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/17/2021 2141
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/17/2021 2141
Naphthalene	ND		1	1.0	0.40	ug/L	11/17/2021 2141
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/17/2021 2141
Toluene	ND		1	1.0	0.40	ug/L	11/17/2021 2141
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/17/2021 2141

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		90	70-130
Toluene-d8		105	70-130
Bromofluorobenzene		100	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22899-002

Matrix: Aqueous

Batch: 22899

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	70-130	11/17/2021 2030
tert-Amyl methyl ether (TAME)	50	53		1	107	70-130	11/17/2021 2030
Benzene	50	61		1	122	70-130	11/17/2021 2030
tert-Butyl formate (TBF)	250	250		1	98	70-130	11/17/2021 2030
1,2-Dichloroethane	50	52		1	103	70-130	11/17/2021 2030
Diisopropyl ether (IPE)	50	57		1	114	70-130	11/17/2021 2030
3,3-Dimethyl-1-butanol	1000	1100		1	106	70-130	11/17/2021 2030
Ethanol	5000	5500		1	110	70-130	11/17/2021 2030
Ethylbenzene	50	51		1	103	70-130	11/17/2021 2030
Ethyl-tert-butyl ether (ETBE)	50	54		1	108	70-130	11/17/2021 2030
Methyl tertiary butyl ether (MTBE)	50	52		1	104	70-130	11/17/2021 2030
Naphthalene	50	54		1	108	70-130	11/17/2021 2030
tert-butyl alcohol (TBA)	1000	1000		1	102	70-130	11/17/2021 2030
Toluene	50	55		1	110	70-130	11/17/2021 2030
Xylenes (total)	100	92		1	92	70-130	11/17/2021 2030
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		104	70-130				
Bromofluorobenzene		89	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: WK13011-014MS

Matrix: Aqueous

Batch: 22899

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	11000	100000	120000		100	107	70-130	11/18/2021 0603
tert-Amyl methyl ether (TAME)	ND	5000	5100		100	102	70-130	11/18/2021 0603
Benzene	6400	5000	12000		100	115	70-130	11/18/2021 0603
tert-Butyl formate (TBF)	ND	25000	23000		100	93	70-130	11/18/2021 0603
1,2-Dichloroethane	170	5000	4700		100	91	70-130	11/18/2021 0603
Diisopropyl ether (IPE)	2200	5000	8600		100	128	70-130	11/18/2021 0603
3,3-Dimethyl-1-butanol	ND	100000	110000		100	109	70-130	11/18/2021 0603
Ethanol	ND	500000	530000		100	106	70-130	11/18/2021 0603
Ethylbenzene	410	5000	6100		100	114	70-130	11/18/2021 0603
Ethyl-tert-butyl ether (ETBE)	ND	5000	5600		100	111	70-130	11/18/2021 0603
Methyl tertiary butyl ether (MTBE)	ND	5000	5400		100	108	70-130	11/18/2021 0603
Naphthalene	970	5000	6700		100	115	70-130	11/18/2021 0603
tert-butyl alcohol (TBA)	ND	100000	100000		100	104	70-130	11/18/2021 0603
Toluene	10000	5000	16000		100	120	70-130	11/18/2021 0603
Xylenes (total)	9800	10000	21000		100	114	70-130	11/18/2021 0603
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		91	70-130					
Toluene-d8		115	70-130					
Bromofluorobenzene		106	70-130					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: WK13011-014MD

Matrix: Aqueous

Batch: 22899

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	11000	100000	110000		100	98	7.5	70-130	20	11/18/2021 0625
tert-Amyl methyl ether (TAME)	ND	5000	4900		100	98	3.8	70-130	20	11/18/2021 0625
Benzene	6400	5000	12000		100	110	2.2	70-130	20	11/18/2021 0625
tert-Butyl formate (TBF)	ND	25000	23000		100	92	1.7	70-130	20	11/18/2021 0625
1,2-Dichloroethane	170	5000	4700		100	90	1.4	70-130	20	11/18/2021 0625
Diisopropyl ether (IPE)	2200	5000	8400		100	123	2.8	70-130	20	11/18/2021 0625
3,3-Dimethyl-1-butanol	ND	100000	96000		100	96	12	70-130	20	11/18/2021 0625
Ethanol	ND	500000	380000 +		100	77	32	70-130	20	11/18/2021 0625
Ethylbenzene	410	5000	6000		100	112	1.5	70-130	20	11/18/2021 0625
Ethyl-tert-butyl ether (ETBE)	ND	5000	5400		100	107	3.4	70-130	20	11/18/2021 0625
Methyl tertiary butyl ether (MTBE)	ND	5000	5300		100	107	1.4	70-130	20	11/18/2021 0625
Naphthalene	970	5000	6300		100	107	5.4	70-130	20	11/18/2021 0625
tert-butyl alcohol (TBA)	ND	100000	96000		100	96	8.5	70-130	20	11/18/2021 0625
Toluene	10000	5000	16000		100	114	2.0	70-130	20	11/18/2021 0625
Xylenes (total)	9800	10000	21000		100	111	1.3	70-130	20	11/18/2021 0625
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		88	70-130							
Toluene-d8		113	70-130							
Bromofluorobenzene		105	70-130							

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23055-001

Matrix: Aqueous

Batch: 23055

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/18/2021 2222
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/18/2021 2222
Benzene	ND		1	1.0	0.40	ug/L	11/18/2021 2222
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/18/2021 2222
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	11/18/2021 2222
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/18/2021 2222
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/18/2021 2222
Ethanol	ND		1	100	52	ug/L	11/18/2021 2222
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/18/2021 2222
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/18/2021 2222
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/18/2021 2222
Naphthalene	ND		1	1.0	0.40	ug/L	11/18/2021 2222
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/18/2021 2222
Toluene	ND		1	1.0	0.40	ug/L	11/18/2021 2222
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/18/2021 2222

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		99	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23055-002

Matrix: Aqueous

Batch: 23055

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	106	70-130	11/18/2021 2117
tert-Amyl methyl ether (TAME)	50	47		1	94	70-130	11/18/2021 2117
Benzene	50	52		1	105	70-130	11/18/2021 2117
tert-Butyl formate (TBF)	250	230		1	93	70-130	11/18/2021 2117
1,2-Dichloroethane	50	43		1	87	70-130	11/18/2021 2117
Diisopropyl ether (IPE)	50	56		1	112	70-130	11/18/2021 2117
3,3-Dimethyl-1-butanol	1000	1100		1	107	70-130	11/18/2021 2117
Ethanol	5000	4500		1	90	70-130	11/18/2021 2117
Ethylbenzene	50	50		1	100	70-130	11/18/2021 2117
Ethyl-tert-butyl ether (ETBE)	50	51		1	103	70-130	11/18/2021 2117
Methyl tertiary butyl ether (MTBE)	50	50		1	99	70-130	11/18/2021 2117
Naphthalene	50	48		1	97	70-130	11/18/2021 2117
tert-butyl alcohol (TBA)	1000	1000		1	101	70-130	11/18/2021 2117
Toluene	50	53		1	105	70-130	11/18/2021 2117
Xylenes (total)	100	100		1	102	70-130	11/18/2021 2117
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		84	70-130				
Toluene-d8		102	70-130				
Bromofluorobenzene		97	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: WK13011-016DU

Matrix: Aqueous

Batch: 23055

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	6000	5600	E	1	7.1	20	11/19/2021 0643
tert-Amyl methyl ether (TAME)	ND	ND		1	0.00	20	11/19/2021 0643
Benzene	2400	1900	+	1	21	20	11/19/2021 0643
tert-Butyl formate (TBF)	ND	ND		1	0.00	20	11/19/2021 0643
1,2-Dichloroethane	140	110		1	19	20	11/19/2021 0643
Diisopropyl ether (IPE)	1200	1200	E	1	4.3	20	11/19/2021 0643
3,3-Dimethyl-1-butanol	ND	ND		1	0.00	20	11/19/2021 0643
Ethanol	ND	ND		1	0.00	20	11/19/2021 0643
Ethylbenzene	290	290	E	1	0.080	20	11/19/2021 0643
Ethyl-tert-butyl ether (ETBE)	ND	ND		1	0.00	20	11/19/2021 0643
Methyl tertiary butyl ether (MTBE)	4.3	4.2		1	3.9	20	11/19/2021 0643
Naphthalene	400	390	E	1	2.6	20	11/19/2021 0643
tert-butyl alcohol (TBA)	190	180		1	6.9	20	11/19/2021 0643
Toluene	2700	2300	E	1	19	20	11/19/2021 0643
Xylenes (total)	3100	2800		1	9.0	20	11/19/2021 0643
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		86	70-130				
Toluene-d8		109	70-130				
Bromofluorobenzene		104	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: WK13011-017MS

Matrix: Aqueous

Batch: 23055

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	5800	1000	6400	N	1	58	70-130	11/19/2021 0705
tert-Amyl methyl ether (TAME)	ND	50	51		1	102	70-130	11/19/2021 0705
Benzene	2100	50	1900	N	1	-366	70-130	11/19/2021 0705
tert-Butyl formate (TBF)	ND	250	ND	N	1	0.00	70-130	11/19/2021 0705
1,2-Dichloroethane	120	50	160	N	1	64	70-130	11/19/2021 0705
Diisopropyl ether (IPE)	1200	50	1300	E	1	110	70-130	11/19/2021 0705
3,3-Dimethyl-1-butanol	ND	1000	1100		1	107	70-130	11/19/2021 0705
Ethanol	ND	5000	3800		1	75	70-130	11/19/2021 0705
Ethylbenzene	290	50	340	E	1	97	70-130	11/19/2021 0705
Ethyl-tert-butyl ether (ETBE)	ND	50	51		1	102	70-130	11/19/2021 0705
Methyl tertiary butyl ether (MTBE)	4.2	50	55		1	101	70-130	11/19/2021 0705
Naphthalene	400	50	440	E	1	79	70-130	11/19/2021 0705
tert-butyl alcohol (TBA)	180	1000	1100		1	96	70-130	11/19/2021 0705
Toluene	2400	50	2200	N	1	-375	70-130	11/19/2021 0705
Xylenes (total)	2900	100	2900	N	1	-76	70-130	11/19/2021 0705
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		96	70-130					
Toluene-d8		117	70-130					
Bromofluorobenzene		108	70-130					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23055-001

Matrix: Aqueous

Batch: 23055

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/18/2021 2222
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/18/2021 2222
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/18/2021 2222
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/18/2021 2222
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/18/2021 2222
Ethanol	ND		1	100	52	ug/L	11/18/2021 2222
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/18/2021 2222
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/18/2021 2222

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		99	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23055-002

Matrix: Aqueous

Batch: 23055

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	106	70-130	11/18/2021 2117
tert-Amyl methyl ether (TAME)	50	47		1	94	70-130	11/18/2021 2117
tert-Butyl formate (TBF)	250	230		1	93	70-130	11/18/2021 2117
Diisopropyl ether (IPE)	50	56		1	112	70-130	11/18/2021 2117
3,3-Dimethyl-1-butanol	1000	1100		1	107	70-130	11/18/2021 2117
Ethanol	5000	4500		1	90	70-130	11/18/2021 2117
Ethyl-tert-butyl ether (ETBE)	50	51		1	103	70-130	11/18/2021 2117
tert-butyl alcohol (TBA)	1000	1000		1	101	70-130	11/18/2021 2117
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		84	70-130				
Toluene-d8		102	70-130				
Bromofluorobenzene		97	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23123-001

Matrix: Aqueous

Batch: 23123

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	1.0	0.40	ug/L	11/19/2021 1149
Naphthalene	ND		1	1.0	0.40	ug/L	11/19/2021 1149
Toluene	ND		1	1.0	0.40	ug/L	11/19/2021 1149
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/19/2021 1149
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		96	70-130				
Toluene-d8		94	70-130				
Bromofluorobenzene		94	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23123-002

Matrix: Aqueous

Batch: 23123

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	50	48		1	97	70-130	11/19/2021 1044
Naphthalene	50	51		1	101	70-130	11/19/2021 1044
Toluene	50	48		1	96	70-130	11/19/2021 1044
Xylenes (total)	100	96		1	96	70-130	11/19/2021 1044
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		96	70-130				
Bromofluorobenzene		98	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23124-001

Matrix: Aqueous

Batch: 23124

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/19/2021 1027
Benzene	ND		1	1.0	0.40	ug/L	11/19/2021 1027
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/19/2021 1027
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/19/2021 1027
Naphthalene	ND		1	1.0	0.40	ug/L	11/19/2021 1027
Toluene	ND		1	1.0	0.40	ug/L	11/19/2021 1027
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/19/2021 1027

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		102	70-130
Bromofluorobenzene		99	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23124-002

Matrix: Aqueous

Batch: 23124

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	101	70-130	11/19/2021 0928
Benzene	50	51		1	102	70-130	11/19/2021 0928
Diisopropyl ether (IPE)	50	53		1	106	70-130	11/19/2021 0928
Ethylbenzene	50	49		1	98	70-130	11/19/2021 0928
Naphthalene	50	53		1	107	70-130	11/19/2021 0928
Toluene	50	52		1	104	70-130	11/19/2021 0928
Xylenes (total)	100	100		1	102	70-130	11/19/2021 0928

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		84	70-130
Toluene-d8		101	70-130
Bromofluorobenzene		95	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: WK13011-002MS

Matrix: Aqueous

Batch: 23124

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	9200	50000	50000		50	81	70-130	11/19/2021 1824
Benzene	4400	2500	6700		50	92	70-130	11/19/2021 1824
Diisopropyl ether (IPE)	ND	2500	2300		50	92	70-130	11/19/2021 1824
Ethylbenzene	860	2500	3300		50	99	70-130	11/19/2021 1824
Naphthalene	190	2500	2500		50	93	70-130	11/19/2021 1824
Toluene	4700	2500	7200		50	99	70-130	11/19/2021 1824
Xylenes (total)	4400	5000	9200		50	97	70-130	11/19/2021 1824

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		78	70-130
Toluene-d8		101	70-130
Bromofluorobenzene		93	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: WK13011-002MD

Matrix: Aqueous

Batch: 23124

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	9200	50000	53000		50	87	6.0	70-130	20	11/19/2021 1847
Benzene	4400	2500	6900		50	102	3.6	70-130	20	11/19/2021 1847
Diisopropyl ether (IPE)	ND	2500	2500		50	100	8.6	70-130	20	11/19/2021 1847
Ethylbenzene	860	2500	3400		50	103	2.9	70-130	20	11/19/2021 1847
Naphthalene	190	2500	2800		50	105	11	70-130	20	11/19/2021 1847
Toluene	4700	2500	7500		50	110	3.7	70-130	20	11/19/2021 1847
Xylenes (total)	4400	5000	9700		50	106	4.8	70-130	20	11/19/2021 1847

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		105	70-130
Bromofluorobenzene		98	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23355-001

Matrix: Aqueous

Batch: 23355

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/22/2021 1129
Benzene	ND		1	1.0	0.40	ug/L	11/22/2021 1129
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/22/2021 1129
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/22/2021 1129
Naphthalene	ND		1	1.0	0.40	ug/L	11/22/2021 1129
Toluene	ND		1	1.0	0.40	ug/L	11/22/2021 1129
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/22/2021 1129
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		87	70-130				
Toluene-d8		96	70-130				
Bromofluorobenzene		93	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23355-002

Matrix: Aqueous

Batch: 23355

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	950		1	95	70-130	11/22/2021 1009
Benzene	50	47		1	95	70-130	11/22/2021 1009
Diisopropyl ether (IPE)	50	49		1	97	70-130	11/22/2021 1009
Ethylbenzene	50	49		1	98	70-130	11/22/2021 1009
Naphthalene	50	51		1	102	70-130	11/22/2021 1009
Toluene	50	49		1	99	70-130	11/22/2021 1009
Xylenes (total)	100	97		1	97	70-130	11/22/2021 1009
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		92	70-130				
Toluene-d8		99	70-130				
Bromofluorobenzene		97	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ24044-001

Matrix: Aqueous

Batch: 24044

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	1.0	0.40	ug/L	11/30/2021 1247
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4	92		70-130				
Toluene-d8	100		70-130				
Bromofluorobenzene	96		70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ24044-002

Matrix: Aqueous

Batch: 24044

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	50	47		1	93	70-130	11/30/2021 1138
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		91	70-130				
Toluene-d8		96	70-130				
Bromofluorobenzene		95	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: WQ22989-001

Matrix: Aqueous

Batch: 22989

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1509

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	11/22/2021 1131
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		118	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: WQ22989-002

Matrix: Aqueous

Batch: 22989

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1509

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.27		1	110	60-140	11/22/2021 1141
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		115	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - Duplicate

Sample ID: WK13011-014DU

Matrix: Aqueous

Batch: 22989

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1509

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.0099	0.011	JP	1	7.8	20	11/22/2021 1538
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	120	57-137					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: WQ22990-001

Matrix: Aqueous

Batch: 22990

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1520

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	11/22/2021 1625
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		109	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: WQ22990-002

Matrix: Aqueous

Batch: 22990

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1520

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.27		1	109	60-140	11/22/2021 1636
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	113	57-137					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MS

Sample ID: WK13011-016MS

Matrix: Aqueous

Batch: 22990

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1520

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.14	0.25	0.42		1	110	60-140	11/22/2021 1708
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		112	57-137					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - Duplicate

Sample ID: WK13011-017DU

Matrix: Aqueous

Batch: 22990

Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/18/2021 1520

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	DII	% RPD	%RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.14	0.15		1	8.5	20	11/22/2021 1730
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	121		57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: WQ22992-001

Matrix: Aqueous

Batch: 22992

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 11/18/2021 1503

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0040	ug/L	11/19/2021 1401
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		103	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: WQ22992-002

Matrix: Aqueous

Batch: 22992

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 11/18/2021 1503

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	93	70-130	11/19/2021 1413
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		102	57-137				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

**Chain of Custody
and
Miscellaneous Documents**



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 127613

Pace Analytical Services, LLC (formerly Stanley Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client Katawba Env		Report to Contact Alex Gandy		Telephone No. / E-mail		Quote No.			
Address 4278 Dyc Rd		Sampler's Signature x Billy Morris		Analyst's (Attach list if more than one)		Page 1 of 3			
City Edgewater	State SC	Zip Code 29712	Printed Name Billy Morris		Lot # Bar Code Subsc only WK13011 LSN				
Project Name Oakie Mart		Project No. Oakie Mart		No. of Containers by Preservative Type					
Sample ID / Description (Containers for each sample may be combined on one line)		Collection Date	Collection Time (Military)	Matrix	Acid	Alkaline	Other		
- 10628 PWIR		11-6-21	723	X					
- 10628 MW4R		↑	810						
- 10628 MW5R			849						
- 10628 MW7R			1359						
- 10628 MW11			932						
- 10628 MW15			1158						
- 10628 MW16			1037						
- 10628 MW16 Dup			1039						
- 10628 MW17		↓	1130						
- 10628 MW20		11-6-21	1103	X					
Turn Around Time Required (Post lab approval required for expedited TAT)		Sample Disposal		Possible Hazard Identification				OC Parameters (Specify)	
Standard	Rush (Specify)	Return to Client	Disposed by Lab	<input type="checkbox"/> Non-hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison	<input type="checkbox"/> Unknown	
1. Relinquished by	Billy Morris	Date	Time	1. Received by				Date	Time
2. Relinquished by		Date	Time	2. Received by				Date	Time
3. Relinquished by		Date	Time	3. Received by				Date	Time
4. Relinquished by		Date	Time	4. Laboratory received by Greg Hamilton				Date	Time
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY		Received on Ice (Circle) Yes No Ice Pack		Receipt Temp. 2.7 °C	Temp Blank 1092

DISTRIBUTION: WHITE & YELLOW/White/In to laboratory with Samples; PINK/Field/Client Copy

Document Number: MEC002NE-01

PACE ANALYTICAL SERVICES, LLC



PACE ANALYTICAL SERVICES, LLC
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 www.paceabs.com

Number 127615

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.paceabs.com

PACE ANALYTICAL SERVICES, LLC

Client Katawba Env		Report to Contact Alex Andros		Telephone Alt / E-mail		Quote No.	
Address 4278 Que Rd		Sampler's Signature Billy Morris		Analysis (Attach EA if more space is needed)		Page 3 of 3	
City Edgecumbe	State SC	Zip Code 29712	Printed Name Billy Morris		Lot # Bar Code WK13011		
Project Name Ekatie Mart		Project No. Ekatie Mart		No of Containers by Preservatives Type			
Sample ID / Description (Containers for each sample may be combined on one line)		Collection Date	Collection Time (M:PM)	Volume	Matrix	Preservative	Other
- 10628 Dww1		11-21	1740				
- 10628 Dww1 Dup			1742				
- 10628 FB1			1731				
- 10628 FB2			1749				
- 10628 TB		11-21	1810				

Turn Around Time Required (Prior to approval required for expedited TAT)	Standard	Rush (Specify)	7 Days
Sample Disposal	Return to Client	Dispose by Lab	
Possible Hazard Identification	Non-Hazardous	Flammable	Skin Irritant
OC Requirements (Specify)			
1. Relinquished by	Date	Time	1. Received by
2. Relinquished by	Date	Time	2. Received by
3. Relinquished by	Date	Time	3. Received by
4. Relinquished by	Date	Time	4. Laboratory received by
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY	Received on Ice (Circle) <input checked="" type="checkbox"/> No Ice Pack
		Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Receipt Temp. 2.7

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Receipt(s); PINK-Furnish Client Copy

Document Number: MED00042-01

PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: KATAWBA

Cooler Inspected by/date: JRG2 / 11/13/2021

Lot #: WK13011

Means of receipt: <input checked="" type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1. Were custody seals present on the cooler?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA	
2.7 / 2.7 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 3 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not Listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₄ /TKN/cyanide/phosol/625.1/608.3 (< 0.5mg/l.) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # _____
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Sample(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: NA	
SR barcode labels applied by: KDRW Date: 11/13/2021	

Comments:



November 19, 2021

Lucas Odom
Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, SC 29172

RE: Project: WK13011 Katawba
Pace Project No.: 92572819

Dear Lucas Odom:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
• Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sara Poulson
sara.poulson@pacelabs.com
(704)875-9092
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WK13011 Katawba
Pace Project No.: 92572819

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: WK13011 Katawba
Pace Project No.: 92572819

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92572819001	WK13011-021	EPA 524.2	LMB	10	PASI-C
92572819002	WK13011-022	EPA 524.2	LMB	10	PASI-C
92572819003	WK13011-024	EPA 524.2	LMB	10	PASI-C
92572819004	WK13011-025	EPA 524.2	LMB	10	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WK13011 Katawba
Pace Project No.: 92572819

Sample: WK13011-021	Lab ID: 92572819001	Collected: 11/06/21 17:40	Received: 11/16/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	mg/L	0.00050	1		11/18/21 17:25	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		11/18/21 17:25	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		11/18/21 17:25	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		11/18/21 17:25	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		11/18/21 17:25	91-20-3	
Toluene	ND	mg/L	0.00050	1		11/18/21 17:25	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		11/18/21 17:25	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		11/18/21 17:25	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	87	%	70-130	1		11/18/21 17:25	2199-69-1	
4-Bromofluorobenzene (S)	81	%	70-130	1		11/18/21 17:25	460-00-4	

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ANALYTICAL RESULTS

Project: WK13011 Katawba
Pace Project No.: 92572819

Sample: WK13011-022	Lab ID: 92572819002	Collected: 11/06/21 17:42	Received: 11/16/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte						
Benzene	ND	mg/L	0.00050	1		11/18/21 17:51	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		11/18/21 17:51	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		11/18/21 17:51	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		11/18/21 17:51	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		11/18/21 17:51	91-20-3	
Toluene	ND	mg/L	0.00050	1		11/18/21 17:51	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		11/18/21 17:51	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		11/18/21 17:51	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	88	%	70-130	1		11/18/21 17:51	2199-69-1	
4-Bromofluorobenzene (S)	80	%	70-130	1		11/18/21 17:51	460-00-4	

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ANALYTICAL RESULTS

Project: WK13011 Katawba
Pace Project No.: 92572819

Sample: **WK13011-024** Lab ID: **92572819003** Collected: 11/06/21 17:49 Received: 11/16/21 16:55 Matrix: Water

524.2 MSV SC List

Analytical Method: EPA 524.2
Pace Analytical Services - Charlotte

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Benzene	ND	mg/L	0.00050	1		11/18/21 18:17	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		11/18/21 18:17	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		11/18/21 18:17	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		11/18/21 18:17	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		11/18/21 18:17	91-20-3	
Toluene	ND	mg/L	0.00050	1		11/18/21 18:17	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		11/18/21 18:17	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		11/18/21 18:17	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	88	%	70-130	1		11/18/21 18:17	2199-69-1	
4-Bromofluorobenzene (S)	81	%	70-130	1		11/18/21 18:17	460-00-4	

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ANALYTICAL RESULTS

Project: WK13011 Katawba
Pace Project No.: 92572819

Sample: WK13011-025	Lab ID: 92572819004	Collected: 11/06/21 18:10	Received: 11/16/21 16:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte						
Benzene	ND	mg/L	0.00050	1		11/18/21 18:43	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		11/18/21 18:43	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		11/18/21 18:43	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		11/18/21 18:43	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		11/18/21 18:43	91-20-3	
Toluene	ND	mg/L	0.00050	1		11/18/21 18:43	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		11/18/21 18:43	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		11/18/21 18:43	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	88	%	70-130	1		11/18/21 18:43	2199-69-1	
4-Bromofluorobenzene (S)	81	%	70-130	1		11/18/21 18:43	460-00-4	

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QUALITY CONTROL DATA

Project: WK13011 Katawba
Pace Project No.: 92572819

QC Batch: 660938	Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2	Analysis Description: 524.2 MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92572819001, 92572819002, 92572819003, 92572819004

METHOD BLANK: 3463292 Matrix: Water
Associated Lab Samples: 92572819001, 92572819002, 92572819003, 92572819004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	11/18/21 17:00	
Benzene	mg/L	ND	0.00050	11/18/21 17:00	
Ethylbenzene	mg/L	ND	0.00050	11/18/21 17:00	
m&p-Xylene	mg/L	ND	0.0010	11/18/21 17:00	
Methyl-tert-butyl ether	mg/L	ND	0.00050	11/18/21 17:00	
Naphthalene	mg/L	ND	0.00050	11/18/21 17:00	
o-Xylene	mg/L	ND	0.00050	11/18/21 17:00	
Toluene	mg/L	ND	0.00050	11/18/21 17:00	
1,2-Dichlorobenzene-d4 (S)	%	88	70-130	11/18/21 17:00	
4-Bromofluorobenzene (S)	%	81	70-130	11/18/21 17:00	

LABORATORY CONTROL SAMPLE: 3463293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.020	100	70-130	
Benzene	mg/L	0.02	0.019	97	70-130	
Ethylbenzene	mg/L	0.02	0.020	100	70-130	
m&p-Xylene	mg/L	0.04	0.041	102	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.019	93	70-130	
Naphthalene	mg/L	0.02	0.016	81	70-130	
o-Xylene	mg/L	0.02	0.016	82	70-130	
Toluene	mg/L	0.02	0.020	99	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WK13011 Katawba
Pace Project No.: 92572819

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WK13011 Katawba
Pace Project No.: 92572819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92572819001	WK13011-021	EPA 524.2	660938		
92572819002	WK13011-022	EPA 524.2	660938		
92572819003	WK13011-024	EPA 524.2	660938		
92572819004	WK13011-025	EPA 524.2	660938		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:
Pace Columbia

Project # **WO# : 92572819**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: KH 11/16/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 927064 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 33 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 33

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 2 of 2
 Issuing Authority:
 Pace Carolina Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TDC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92572819

PH: SC

Due Date: 11/22/21

CLIENT : 92-PaceSheal

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3AN-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFB-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9H-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Chain of Custody



Workorder: WK13011 Workorder Name: Okatie Mart Owner Received Date: 11/13/2021 Results Requested By: 11/22/2021

Report To:		Subcontract To:		Requested Analysis												
Lucas J. Odom Pace Analytical 106 Vantage Point Drive Columbia SC, 29223 803-206-9537 lucas.odom@pacelabs.com		Project # Pace		524.2 BTEX/Naph/MTBE												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCl	Preserved Containers					524.2 BTEX/Naph/MTBE		LAB USE ONLY		
1	10628 DWW1	grab	11/06/2021 @ 1740	WK13011-021	Aqueous	x							x		92572819 001	
2	10628 DWW1 DUP	grab	11/06/2021 @ 1742	WK13011-022	Aqueous	x							x		002	
3	10628 FB2	grab	11/06/2021 @ 1749	WK13011-024	Aqueous	x							x		003	
4	10628 TB	grab	11/06/2021 @ 1810	WK13011-025	Aqueous	x							x		004	
5																
6																
7																
8																
9																
10																
Transfers	Released By	Date/Time	Received By	Date/Time	Comments											
1	<i>[Signature]</i>	11/15/21 16:55	<i>[Signature]</i>	11/15/21 16:55	524.2 BTEX/naph/mtbe/12DCA											
2	<i>[Signature]</i>	11/15/21	<i>[Signature]</i>	11/16/21 15:59	report "J" values											
3			<i>[Signature]</i>	11/16/21 16:58	3.3 °C											

Cooler Temperature on Receipt 3.3 °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

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



Ship to :

Pace Huntersville

Phone

INTER_LABORATORY WORK ORDER # **WK13011**

(To be complete by sending lab)

Sending Project No:	WK13011	
Receiving Project No:		
Check Box for Consolidated Invoice:	<input checked="" type="checkbox"/>	
Date Prepared:	15-Nov	
REQUESTED COMPLETION DATE:	22-Nov	

Sending Region	IR77-SC	Sending Project Mgr.	LJO
Receiving Region	Huntersville	External Client	Katawba
State of Sample Origin	SC	Q	L2

All questions should be addressed to sending project manager.

Requested Reportable Units ug/L Report Wet or Dry Weight? _____ Cert Needed: SC

WORK REQUESTED						
Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
524.2 VOC	VOA	3	HCl	4	50	200
TOTAL						200

Special Requirements: _____

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
GC/MS VOC	VOA	200	160	40
* Custom Revenue Allocation		TOTAL	160	40

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Chain of Custody Included: Yes No Return Samples to Sending Reguion: Yes No

Matrix: Soil Water Air Other (identity) _____

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

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

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

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-4R

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 6.63 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	810							
pH (s.u.)	7.96							
Specific Cond. (umhos/cm)	248							
Water Temp (°C)	22.3							
Turbidity (*)	109							
Dissolved Oxygen	6.63							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-5RR

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 7.19 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	849							
pH (s.u.)	7.85							
Specific Cond. (umhos/cm)	248							
Water Temp (°C)	22.3							
Turbidity (*)	103							
Dissolved Oxygen	6.45							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-7R

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 6.46 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1359							
pH (s.u.)	8.12							
Specific Cond. (umhos/cm)	238							
Water Temp (°C)	23.2							
Turbidity (*)	117							
Dissolved Oxygen	6.39							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

<p>Date (mm/dd/yy) <u>11/6/21</u> Field Personnel <u>Alex Amos / Billy Morris</u> General Weather Condition <u>Clear</u> Ambient Air Temperature <u>76</u> Facility Name <u>OKATIE MART</u> Site ID# <u>10628</u></p> <p style="text-align: center;">Quality Assurance:</p> <p>pH Meter <u>Hannah</u> Conductivity Meter: <u>YSI</u> serial no. <u>08366812</u> serial no. <u>11G100871</u></p> <p>pH=4.0 <u>4.0=4.0</u> Standard <u>10.0=10.0</u> pH=7.0 <u>7.0=7.0</u> Standard <u>100.0=100.0</u> pH=10.0 <u>10.0=10.0</u> Standard <u>1000.0=1000.0</u></p> <p style="text-align: center;">Chain of Custody</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Relinquished by</th> <th>Date/Time</th> <th>Received by</th> <th>Date/Time</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Relinquished by	Date/Time	Received by	Date/Time					<p>Well # <u>MW-11R</u></p> <p>Well Diameter(D) <u>2</u> inches or _____ Feet for a 2 inch well C=0.163 4 inch well C=0.652</p> <p>Total Well Depth (TWD) <u>15</u> ft. Depth to GW (DGW) <u>6.04</u> ft.</p> <p>Length of Water Column (LWC=TWD-DGW) <u>8.96</u> FT</p> <p>1 Csg. Volume (LWC*C) = <u>8.96</u> x <u>0.163</u> = <u>1.46</u> gals. 3 Csg. Volumes = 3 X <u>1.46</u> = <u>4.38</u> gals. (Std. Purge Volume)</p> <p>Total Volume of Water Purged Before Sampling <u>4.5</u> gals</p> <p>Used purge pump to evacuate</p>
Relinquished by	Date/Time	Received by	Date/Time						

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	1.5	3	4.5				
Time (military)	911	918	924	932				
pH (s.u.)	8.12	8.04	7.98	7.95				
Specific Cond. (umhos/cm)	252	257	253	250				
Water Temp (°C)	22.7	22.1	21.6	21.1				
Turbidity (*)	104	109	111	114				
Dissolved Oxygen	7.98	7.41	7.37	7.32				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-15

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 6.47 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1158							
pH (s.u.)	7.30							
Specific Cond. (umhos/cm)	248							
Water Temp (°C)	21.9							
Turbidity (*)	97.4							
Dissolved Oxygen	7.36							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

<p>Date (mm/dd/yy) <u>11/6/21</u> Field Personnel <u>Alex Amos / Billy Morris</u> General Weather Condition <u>Clear</u> Ambient Air Temperature <u>76</u> Facility Name <u>OKATIE MART</u> Site ID# <u>10628</u></p> <p style="text-align: center;">Quality Assurance:</p> <p>pH Meter <u>Hannah</u> Conductivity Meter: <u>YSI</u> serial no. <u>08366812</u> serial no. <u>11G100871</u></p> <p>pH=4.0 <u>4.0=4.0</u> Standard <u>10.0=10.0</u> pH=7.0 <u>7.0=7.0</u> Standard <u>100.0=100.0</u> pH=10.0 <u>10.0=10.0</u> Standard <u>1000.0=1000.0</u></p> <p style="text-align: center;">Chain of Custody</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Relinquished by</td> <td style="width: 25%;">Date/Time</td> <td style="width: 25%;">Received by</td> <td style="width: 25%;">Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Relinquished by	Date/Time	Received by	Date/Time					<p>Well # <u>MW-16</u></p> <p>Well Diameter(D) <u>2</u> inches or _____ Feet for a 2 inch well C=0.163 4 inch well C=0.652</p> <p>Total Well Depth (TWD) <u>17</u> ft. Depth to GW (DGW) <u>6.92</u> ft.</p> <p>Length of Water Column (LWC=TWD-DGW) <u>10.08</u> FT</p> <p>1 Csg. Volume (LWC*C) = <u>10.08</u> x <u>0.163</u> = <u>1.64</u> gals. 3 Csg. Volumes = 3 X <u>1.64</u> = <u>4.92</u> gals. (Std. Purge Volume)</p> <p>Total Volume of Water Purged Before Sampling <u>5</u> gals</p> <p>Used purge pump to evacuate</p>
Relinquished by	Date/Time	Received by	Date/Time						

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	1.5	3	5				
Time (military)	1013	1022	1031	1037				
pH (s.u.)	7.44	7.56	7.51	7.52				
Specific Cond. (umhos/cm)	253	266	263	267				
Water Temp (°C)	22.8	21.9	21.5	21.3				
Turbidity (*)	98.7	103	106	108				
Dissolved Oxygen	6.37	6.38	6.39	6.41				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-17R

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 6.13 ft.

Length of Water Column (LWC=TWD-DGW) 8.87 FT

1 Csg. Volume (LWC*C) = 8.87 x 0.163 = 1.44 gals.
 3 Csg. Volumes = 3 X 1.44 = 4.33 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	1.5	3	4.5				
Time (military)	1107	1115	1122	1130				
pH (s.u.)	7.96	7.84	7.78	7.75				
Specific Cond. (umhos/cm)	254	252	251	251				
Water Temp (°C)	22.9	21.8	20.6	20.1				
Turbidity (*)	109	124	126	127				
Dissolved Oxygen	7.72	6.48	6.39	6.35				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-20

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 14 ft.
 Depth to GW (DGW) 7.34 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1103							
pH (s.u.)	7.73							
Specific Cond. (umhos/cm)	252							
Water Temp (°C)	22.4							
Turbidity (*)	88.4							
Dissolved Oxygen	6.98							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # MW-21

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652

Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 6.29 ft.

Length of Water Column (LWC=TWD-DGW) 8.71 FT

1 Csg. Volume (LWC*C) = $\frac{8.71 \times 0.163}{1} = 1.41$ gals.
 3 Csg. Volumes = $3 \times 1.41 = 4.25$ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	1.5	3	4.5				
Time (military)	932	941	947	954				
pH (s.u.)	7.79	7.62	7.58	7.54				
Specific Cond. (umhos/cm)	243	242	242	241				
Water Temp (°C)	22.5	22.4	21.6	21.3				
Turbidity (*)	65.4	98.2	103	105				
Dissolved Oxygen	8.14	8.07	8.03	7.98				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # MW-22

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 7.07 ft.

Length of Water Column (LWC=TWD-DGW) 7.93 FT

1 Csg. Volume (LWC*C) = 7.93 x 0.163 = 1.29 gals.
 3 Csg. Volumes = 3 X 1.29 = 3.87 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	1.5	3	4				
Time (military)	1213	1221	1230	1236				
pH (s.u.)	7.83	7.63	7.57	7.54				
Specific Cond. (umhos/cm)	238	237	237	236				
Water Temp (°C)	22.1	20.6	20.3	20.1				
Turbidity (*)	65.8	79.6	101	106				
Dissolved Oxygen	6.59	6.42	6.37	6.33				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # DW1 (PW1)

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 35 ft.
 Depth to GW (DGW) 7.07 ft.

Length of Water Column (LWC=TWD-DGW) 27.93 FT

1 Csg. Volume (LWC*C) = 27.93 x 0.163 = 4.55 gals.
 3 Csg. Volumes = 3 X 4.55 = 13.65 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 13.75 gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0	4.5	9	13.75				
Time (military)	652	705	714	723				
pH (s.u.)	7.47	7.59	7.35	7.30				
Specific Cond. (umhos/cm)	213	211	210	210				
Water Temp (°C)	20.9	19.6	18.3	18.1				
Turbidity (*)	31.2	34.3	34.9	36.1				
Dissolved Oxygen	6.42	6.34	6.29	6.25				

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # RW-1

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 6.59 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1420							
pH (s.u.)	6.23							
Specific Cond. (umhos/cm)	79.8							
Water Temp (°C)	22.5							
Turbidity (*)	131							
Dissolved Oxygen	6.23							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # RW-2

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 12 ft.
 Depth to GW (DGW) 6.17 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1618							
pH (s.u.)	6.17							
Specific Cond. (umhos/cm)	217							
Water Temp (°C)	22.5							
Turbidity (*)	93.9							
Dissolved Oxygen	6.17							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # RW-4

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 6.82 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1450							
pH (s.u.)	8.10							
Specific Cond. (umhos/cm)	254							
Water Temp (°C)	22.6							
Turbidity (*)	104							
Dissolved Oxygen	7.26							

**South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling/Development**

Date (mm/dd/yy) 11/6/21
 Field Personnel Alex Amos / Billy Morris
 General Weather Condition Clear
 Ambient Air Temperature 76
 Facility Name OKATIE MART Site ID# 10628

Quality Assurance:

pH Meter Hannah Conductivity Meter: YSI
 serial no. 08366812 serial no. 11G100871
 pH=4.0 4.0=4.0 Standard 10.0=10.0
 pH=7.0 7.0=7.0 Standard 100.0=100.0
 pH=10.0 10.0=10.0 Standard 1000.0=1000.0

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # RW-5

Well Diameter(D) 2 inches or _____ Feet
 for a 2 inch well C=0.163
 4 inch well C=0.652
 Total Well Depth (TWD) 15 ft.
 Depth to GW (DGW) 6.21 ft.

Length of Water Column (LWC=TWD-DGW) _____ FT

1 Csg. Volume (LWC*C) = _____ x 0.163 = _____ gals.
 3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

Used purge pump to evacuate

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	0							
Time (military)	1528							
pH (s.u.)	7.99							
Specific Cond. (umhos/cm)	249							
Water Temp (°C)	22.1							
Turbidity (*)	149							
Dissolved Oxygen	6.21							

APPENDIX C
DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on site (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address		KATAWIBA ENVIRONMENTAL 4278 DYE ROAD EDGEWATER, SC 29112		
4. Generator's Phone ()				
5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID		
KATAWIBA ENVIRONMENTAL		B. Transporter 1 Phone		
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID		
		D. Transporter 2 Phone		
9. Designated Facility Name and Site Address		E. State Facility's ID		
HARVEST 221 DALTON DRIVE CHARLOTTE, NC		F. Facility's Phone		
10. US EPA ID Number				

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. DUNGEON WATER USE SITE SC OKASIE MANT, OKASIE HTG, HARDEEVILLE, SC ST ID 10628	1	Dm	23	Gn
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information



16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date
Billy Morris	<i>Billy Morris</i>	Month Day Year 11 11 21

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
		Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
		Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name	Signature	Date
Mike Hinds	<i>Mike Hinds</i>	Month Day Year 11 11 21

APPENDIX D
QAPP CHECKLIST

QAPP Contractor Checklist Okatie Mart Site ID 10628

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

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



Katawba Environmental, Inc.

December 20, 2021

Mr. Arthur Brown
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708



RECEIVED
DEC 30 2021
UST DIVISION

**RE: WELL INSTALLATION REPORT
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628 CA #64377
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA**

Dear Mr. Brown:

Katawba Environmental, Inc. (Katawba) has prepared this Well Installation Report for the above-referenced facility for your review. This event was conducted in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated September 20, 2021.

It is recommended that multiple AFVR events be conducted at the site as the next appropriate scope of work. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant

Well Installation Report

**Shreejakshani
DBA Okatie Mart
6195 S. Okatie Hwy.
Hardeeville, SC
UST Permit #10628**



Alex W. Amos, CEO, PG
Senior Consultant

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1.0 INTRODUCTION

Katawba Environmental, Inc. has been contracted by Shirishi Shah to complete a well installation event for Okatie Mart. The Subject Site (Site ID 10628) is located at 6195 S. Okatie Highway in Hardeeville, South Carolina (Appendix A, Figure 1). The subject site currently operates as a convenience store that retails petroleum products. The surrounding area is residential in use. The subject site is abutted by residential parcels to the north, east and south. An undeveloped timber tract is adjacent to the east across Okatie Highway.

The responsible party for the subject site is Shreejakshani DBA Okatie Mart, 6195 S. Okatie Highway, Hardeeville South Carolina 29927. Shirishi Shah is the contact for Okatie Mart and can be communicated with via mail or phone at (843) 784-6194. According to Jasper County Tax Assessor records the parcel is currently owned by Shree Jakshani, LLC, 6194 S. Okatie Hwy., Hardeeville, SC 29927. The current owners purchased the parcel in 2014 from Malphrus Enterprises. The subject site is a triangular shaped parcel that is occupied by one primary structure that contains the convenience store and permitted UST system. The subject site is listed with the Jasper County Assessor's Office as TM 039-00-10-025. This well installation event was implemented in response to SCDHEC correspondence dated September 20, 2021. Mr. Alex W. Amos PG, of Katawba, prepared this Well Installation Report. The following summarizes the results of this event:

- Soil borings SB1 through SB14 were installed for this scope of work.
- Monitoring wells MW11R, MW17R, MW21 and MW22 were installed for this scope of work.
- Groundwater was collected and analyzed from SB1 and SB2 for this scope of work.
- Soil samples were collected and analyzed from SB3 to SB14 for this scope of work.
- Gran size analysis was performed on borings SB1 and SB2 for this scope of work.
- TOC analysis was performed on boring MW17R for this scope of work.

2.0 BORING INSTALLATION / WELL INSTALLATION

During this scope of work soil borings SB1 to SB14 were installed by Environmental Probing and Drilling Service (EDPS) of Charlotte, NC (SC Driller # 1846B). Mr. Tommy Bolyard of EDPS can be contacted at 17538 Greenhill Road, Charlotte, NC 28278 or via phone at (704) 607-7529. After installation the newly installed borings were abandoned with bentonite. The boring logs for this boring installation event can be found in Appendix B.

Soil samples collected for BTEXNM and grain size analysis were obtained during boring installation for this scope of work. Onsite borings SB1 and SB2 were conducted with a geoprobe sampler. Soil was collected at 5 FT intervals starting from the surface and terminating at a depth of 15 FT BLS. Onsite soil borings SB3 through SB14 were conducted with a hand auger. Hand auger borings were collected at 1 ft intervals starting with the surface and terminating at 3 feet.

Soil samples collected from the sampler sleeve were inserted directly into laboratory supplied containers and stored on ice for same day transport for analysis. Katawba personnel submitted all groundwater samples to Pace Analytical, 106 Vantage Point Drive, Cayce, SC 29033 to the attention of laboratory director Dan Wright who can be contacted at 803-791-9700. The results for the soil sampling analysis are as follows.

During this scope of work shallow monitoring wells MW11R, 17R, MW21 and MW22 were installed by Environmental Probing and Drilling Service (EDPS) of Charlotte, NC (SC Driller # 1846A). The shallow monitoring wells were constructed to a depth of 15 feet each utilizing 2 inch diameter riser with 2 inch diameter screen slotted 0.010, 10 feet in length. Coarse grain filter pack was placed into each annulus to an approximate elevation of 1 foot above the screen followed by a bentonite seal and grouted to the surface with neat cement. Each monitoring well was outfitted with an 8 inch steel traffic rated manhole cover encapsulated within an exterior concrete pad.

A well tag for each well was cemented in place upon completion of the well vault. All wells were developed utilizing a purge pump to remove all drilling fluids from the well annulus. Removal of fluids was conducted until the process was completed. Development of all onsite wells occurred on November 3, 2021. All well development fluids were disposed of at Haz Mat, Inc. in Charlotte, North

Carolina. After installation, the newly installed wells were surveyed in for elevation. Top of casing (TOC) data is included in Table 1 of this report. The well logs for this well installation event can be found in Appendix B.

TABLE 1 Groundwater Data (feet) Okatie Mart Site ID 10628

Monitoring Well	Date	TOC Elevation	Screened Interval (below land surface)	TOC to FP	TOC to GW	GW Elevation
MW11R	11/6/21	91.37	5-15	--	6.04	85.33
MW17R	11/6/21	95.87	5-15	--	6.13	89.74
MW21	11/6/21	91.45	5-15	--	6.29	85.16
MW22	11/6/21	95.94	5-15	--	7.07	88.87

TABLE 2A Field Screen Analytical Data Okatie Mart ID 10628

Sample ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
RBSL	-	5 ug/l	1,000 ug/l	700 ug/l	10,000 ug/l	25 ug/l	40 ug/l	0.05 ug/l	15 ug/l	ug/l	ug/l
SB1	11/2/21	14000	25000	4300	17000	1200	<500	NA	NA	NA	<500
SB2	11/2/21	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10

TABLE 2 Soil Analytical Data Okatie Mart ID 10628							
Sample ID	Date Sampled	Benzene ug/kg	Toluene ug/kg	Ethyl- benzene ug/kg	Total Xylenes ug/kg	Naphthalene ug/kg	TOC mg/kg
RBSL	-	7 ug/kg	1450 ug/kg	1150 ug/kg	14500 ug/kg	36 ug/kg	NA
SB3	11/2/21	<450	<450	<450	<900	<450	NA
SB4	11/2/21	40000	560000	100000	2400000	120000	NA
SB5	11/2/21	48000	410000	120000	710000	33000	NA
SB6	11/2/21	150000	1500000	330000	3700000	140000	NA
SB7	11/2/21	16000	34000	61000	300000	21000	NA
SB8	11/2/21	4800	66000	16000	130000	4300	NA
SB9	11/2/21	22000	190000	47000	270000	9800	NA
SB10	11/2/21	1500	15000	3000	39000	2300	NA
SB11	11/2/21	<10	14	<10	57	5.1	NA
SB12	11/2/21	<8.1	16	16	150	8.3	NA
SB13	11/2/21	<6.9	<6.9	<6.9	<14	<6.9	NA
SB14	11/2/21	<5.5	<5.5	<5.5	<11	<5.5	NA
DUP	11/2/21	<8.6	<8.6	<8.6	<17	<8.6	NA
MW17R	11/2/21	NA	NA	NA	NA	NA	2400
TB	11/2/21	<1	<1	<1	<1	<1	NA

3.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this well installation event was to install monitoring wells for additional sampling locations at the site. The following conclusions are based upon data obtained during this well installation event:

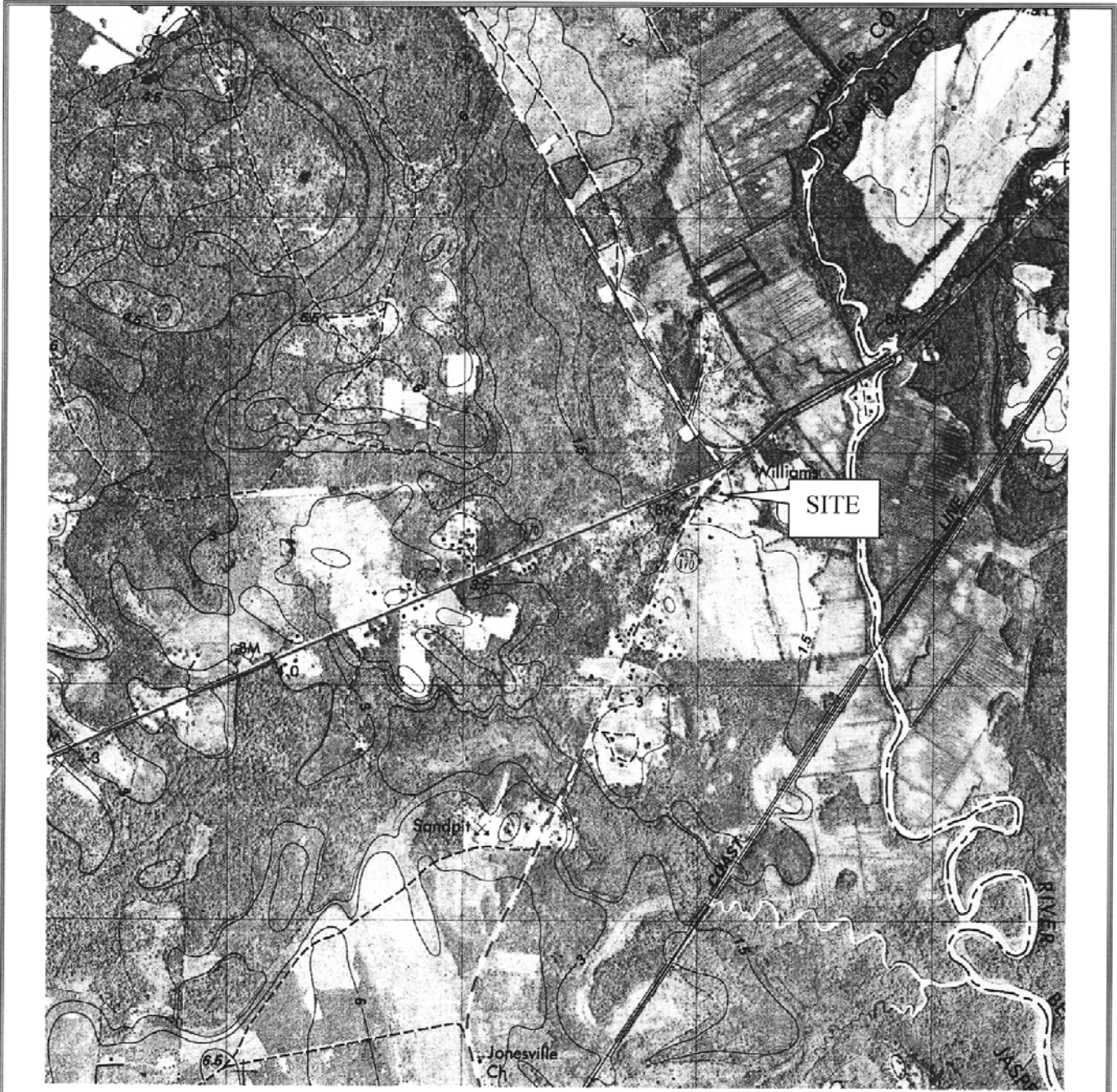
- Soil borings SB1 through SB14 were installed for this scope of work.
- Monitoring wells MW11R, MW17R, MW21 and MW22 were installed for this scope of work.
- Groundwater was collected and analyzed from SB1 and SB2 for this scope of work.
- Soil samples were collected and analyzed from SB3 to SB14 for this scope of work.
- Gran size analysis was performed on borings SB1 and SB2 for this scope of work.
- TOC analysis was performed on boring MW17R for this scope of work.

4.0 REFERENCES

Brown, Arthur. September 20, 2021 letter to Amos

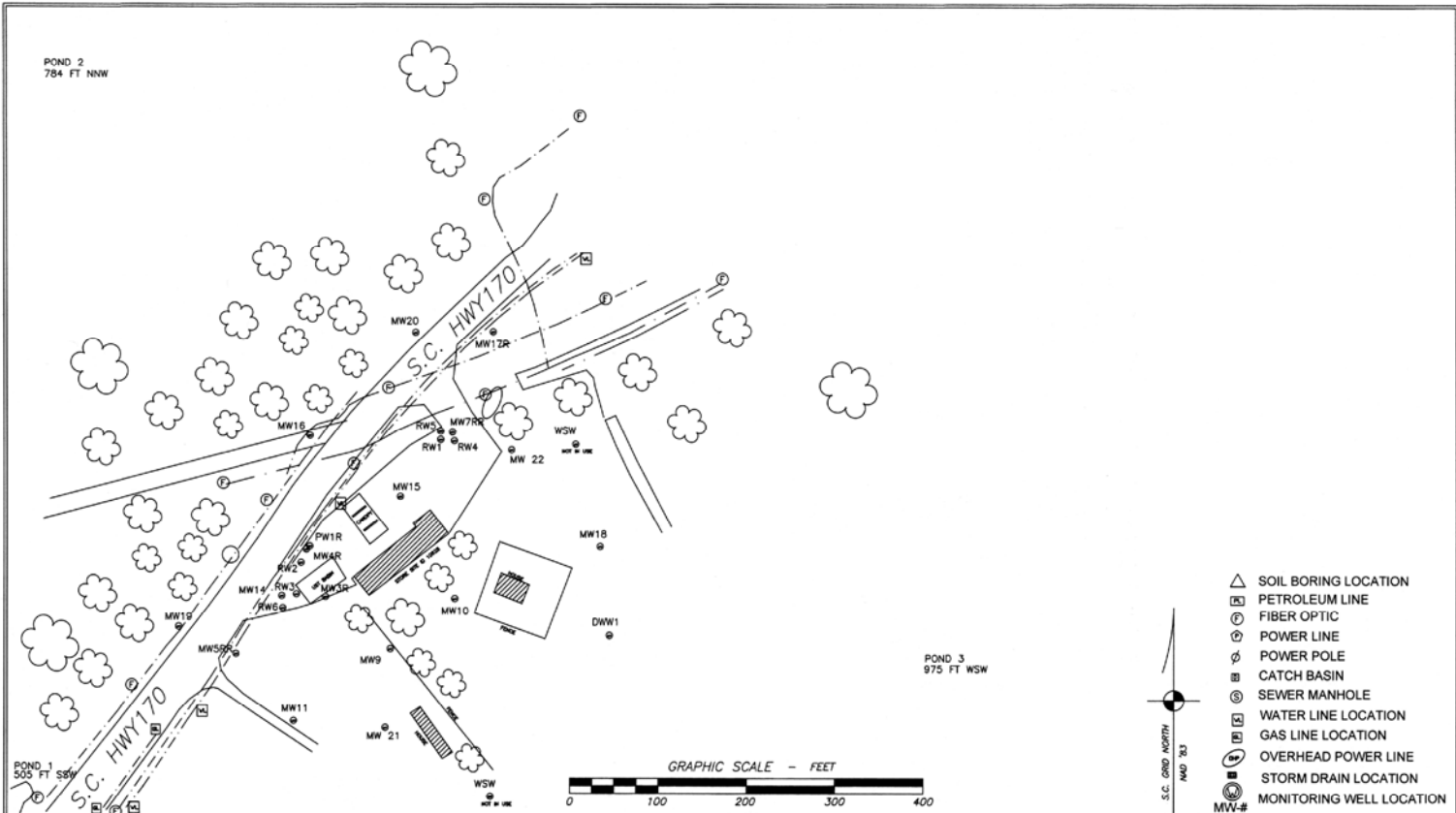
Katawba Environmental, Inc, April 2021 Sampling Report

APPENDIX A
FIGURES



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

WELL INSTALL REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2

SITE MAP

POND 2
784 FT NNW

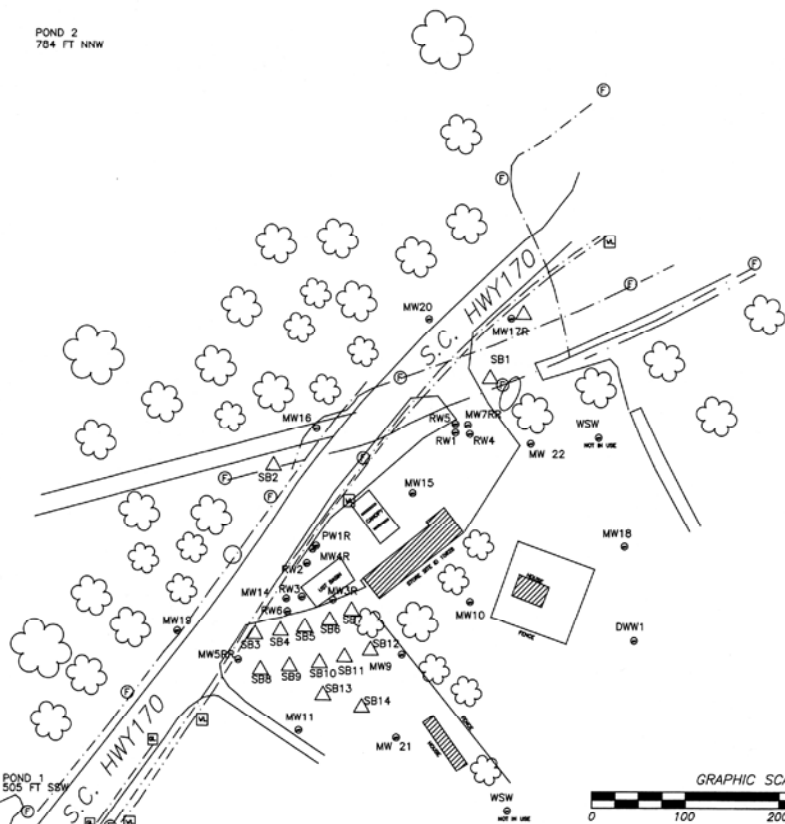
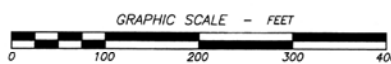


TABLE 2A Field Screen Analytical Data Okatie Mart ID 10628

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	EDB	Lead	PAH (total)	1-2 DCA
RBSL	-	5 ug/l	1,000 ug/l	700 ug/l	10,000 ug/l	25 ug/l	40 ug/l	0.05 ug/l	15 ug/l	ug/l	ug/l
SB1	11/2/21	14000	25000	4300	17000	1200	<50	NA	NA	NA	<500
SB2	11/2/21	<10	<10	<10	<10	<10	<10	NA	NA	NA	<10

TABLE 2 Soil Analytical Data Okatie Mart ID 10628

Sample ID	Date Sampled	Benzene ug/kg	Toluene ug/kg	Ethylbenzene ug/kg	Total Xylenes ug/kg	Naphthalene ug/kg	TOC mg/kg
RBSL	-	7 ug/kg	1450 ug/kg	1150 ug/kg	14500 ug/kg	38 ug/kg	NA
SB3	11/2/21	<450	<450	<450	<900	<450	NA
SB4	11/2/21	40000	560000	100000	2400000	120000	NA
SB5	11/2/21	48000	410000	120000	710000	33000	NA
SB6	11/2/21	160000	1600000	330000	3700000	140000	NA
SB7	11/2/21	16000	34000	61000	300000	21000	NA
SB8	11/2/21	4800	66000	18000	130000	4300	NA
SB9	11/2/21	22000	190000	47000	270000	9800	NA
SB10	11/2/21	1500	15000	3000	39000	2300	NA
SB11	11/2/21	<10	14	<10	57	5.1	NA
SB12	11/2/21	<8.1	16	16	150	8.3	NA
SB13	11/2/21	<8.9	<6.9	<6.9	<14	<6.9	NA
SB14	11/2/21	<5.5	<5.5	<5.5	<11	<5.5	NA
DUP	11/2/21	<8.6	<8.6	<8.6	<17	<8.6	NA
MW17R	11/2/21	NA	NA	NA	NA	NA	2400
TB	11/2/21	<1	<1	<1	<1	<1	NA



- △ SOIL BORING LOCATION
- ▣ PETROLEUM LINE
- ⊕ FIBER OPTIC
- ⊙ POWER LINE
- ⊘ POWER POLE
- ▣ CATCH BASIN
- ⊙ SEWER MANHOLE
- ▣ WATER LINE LOCATION
- ▣ GAS LINE LOCATION
- ⊙ OVERHEAD POWER LINE
- ▣ STORM DRAIN LOCATION
- ⊙ MW-# MONITORING WELL LOCATION

KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR, SC 29712
(803)327-0469 UCC#18

SAMPLING REPORT
SHREEJAKSHANI, LLC SITE ID 10628
6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 4
CONTAMINATION MAP

APPENDIX B
WELL LOGS

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-1
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Geoprobe	Hole Depth	15	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty brown	0 PPM
5.0				CLAY silty brown	48 PPM
				CLAY sandy brown	
				SAND clayey silty tan moist	
10.0					287 PPM
15.0				SAND clayey silty tan wet	430 PPM
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-2
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Geoprobe	Hole Depth	15	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty brown	0 PPM
5.0				CLAY brown grey firm	0 PPM
				CLAY brown grey hard	
10.0				CLAY brown grey firm moist SAND clayey silty tan moist	0 PPM
15.0				SAND clayey silty tan wet	0 PPM
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-3
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black	0 PPM
				CLAY silty black wet	0 PPM
				CLAY silty grey wet	25 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-4
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black	487 PPM
				CLAY silty black wet	1580 PPM
				CLAY silty grey wet	5000 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-5
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black wet	646 PPM
				CLAY silty black wet	5000 PPM
				CLAY silty grey wet	5000 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-6
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black wet	249 PPM
				CLAY silty black wet	4826 PPM
				CLAY silty grey wet	4855 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

Katawba Environmental, Inc.

Soil Boring Log

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-7
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black wet	897 PPM
				CLAY silty black wet	5000 PPM
				CLAY silty grey wet	5000 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-8
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black wet	248 PPM
				CLAY silty black wet	3897 PPM
				CLAY silty sandy black wet	4302 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-9
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black wet	187 PPM
				CLAY silty sandy grey wet	5000 PPM
				CLAY sandy grey wet	5000 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-10
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty black wet	129 PPM
				CLAY silty grey wet	920 PPM
				CLAY silty grey wet	1631 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-11
Project Number	10628	Weather	Cloudy	Sheet	_____ of _____
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	_____
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty brown	0 PPM
				CLAY silty brown	1 PPM
				CLAY silty brown wet	2 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

Katawba Environmental, Inc.
Soil Boring Log

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-12
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty brown	0 PPM
				CLAY silty brown	0 PPM
				CLAY silty brown wet	3 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

Katawba Environmental, Inc.
Soil Boring Log

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-13
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen		No. UD. S.A.	N/A
		Diameter	N/A		
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty brown	0 PPM
				CLAY silty brown	0 PPM
				CLAY silty brown wet	0 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

**Katawba Environmental, Inc.
Soil Boring Log**

Project Name	Okatie Mart	Inspector	Alex Amos	Boring No.	SB-14
Project Number	10628	Weather	Cloudy	Sheet	of
Drilling Company	EDPS	Temperature	76	Surface Elev.	100 FT
Drill Rig	Hand Auger	Hole Depth	3	Date	11/2/21
Wt Hammer	Drop	Hole Diam.	2	Started	11/2/21
Driller	Tommy Bolyard 1846	Screen Length	N/A	Completed	
Sampling Method	Grab	Screen Diameter	N/A	No. UD. S.A.	N/A
Depth W.L.	N/A	Time W.L.	N/A	Date W.L.	N/A

Boring Description

Depth (ft)	Sample No.	Blows 0.5'	% Rec	Lithologic Description	Comments
				CLAY silty brown	0 PPM
				CLAY silty brown	0 PPM
				CLAY silty brown wet	0 PPM
5.0					
10.0					
15.0					
20.0					
25.0					
30.0					

Note: 1) VOCs reported in parts per million (PPM)

APPENDIX C
ANALYTICAL RESULTS



Report of Analysis

Katawba Environmental, Inc.
4278 Dye Rd.
Edgemore, SC 29712
Attention: Alex Amos

Project Name: Okatie Mart

Lot Number: **WK06013**

Date Completed: 11/23/2021

11/23/2021 4:05 PM
Approved and released by:
Project Manager II: **Lucas Odom**



The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Katawba Environmental, Inc. Lot Number: WK06013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation:

Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, Fecal Coliform SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, Solid Chemical Material: TOC Walkley-Black.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

VOCs by GC/MS

Surrogate recovery for the following samples was outside of acceptance limits: WK06013-004, WK06013-005, WK06013-006, WK06013-007, WK06013-008, WK06013-009. The samples were analyzed at a high dilution making the surrogate recovery below calibration range; therefore, the data have been reported.

The following samples were received with headspace in the sample vial: WK06013-001, WK06013-002. Analysis has been performed from vials with the least amount of head space.

The following sample was diluted due to the nature of the sample matrix (excessive sediment): WK06013-002. The LOQ has been elevated to reflect the dilution.

Reanalysis of the following sample was performed outside of the analytical holding time: WK06013-002. Run 1 had suspected naphthalene carry over.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 22770. An LCS/LCSD was run in lieu of an MS/MSD.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

VOCs by GC/MS Continued

Reanalysis of the following sample was performed outside of the analytical holding time: WK06013-003. Run 1 was analyzed as a low level within holding time with failing internal and surrogate. Also the run 1 had over-range hits. Run 2 was analyzed as a medium level at a 500X within holding time. Run 3 was analyzed at a 50X outside of holding time.

Reanalysis of the following samples was performed outside of the analytical holding time: WK06013-010. Run 1 and Run 2 were analyzed as a medium level at 50X and 2000X within holding time. Run 3 was analyzed at a 200X outside of holding time.

Reanalysis of the following samples was performed outside of the analytical holding time: WK06013-011, WK06013-012. Samples were initially analyzed with failing internal within a holding time, so the samples were re-analyzed.

PACE ANALYTICAL SERVICES, LLC

Sample Summary Katawba Environmental, Inc. Lot Number: WK06013

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB-1	Aqueous	11/02/2021 1556	11/03/2021
002	SB-2	Aqueous	11/02/2021 1418	11/03/2021
003	SB-3	Solid	11/02/2021 1350	11/03/2021
004	SB-4	Solid	11/02/2021 1336	11/03/2021
005	SB-5	Solid	11/02/2021 1240	11/03/2021
006	SB-6	Solid	11/02/2021 1213	11/03/2021
007	SB-7	Solid	11/02/2021 1150	11/03/2021
008	SB-8	Solid	11/02/2021 1123	11/03/2021
009	SB-9	Solid	11/02/2021 1110	11/03/2021
010	SB-10	Solid	11/02/2021 1041	11/03/2021
011	SB-11	Solid	11/02/2021 0936	11/03/2021
012	SB-12	Solid	11/02/2021 0919	11/03/2021
013	SB-13	Solid	11/02/2021 0846	11/03/2021
014	SB-14	Solid	11/02/2021 0805	11/03/2021
015	SB-14 DUP	Solid	11/02/2021 0807	11/03/2021
016	MW-17R	Solid	11/02/2021 1646	11/03/2021
017	TB	Aqueous	11/02/2021 1649	11/03/2021

(17 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary Katawba Environmental, Inc. Lot Number: WK06013

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB-1	Aqueous	Benzene	8260D	14000		ug/L	7
001	SB-1	Aqueous	Diisopropyl ether (IPE)	8260D	2600		ug/L	7
001	SB-1	Aqueous	Ethylbenzene	8260D	4300		ug/L	7
001	SB-1	Aqueous	Naphthalene	8260D	1200		ug/L	7
001	SB-1	Aqueous	Toluene	8260D	25000		ug/L	7
001	SB-1	Aqueous	Xylenes (total)	8260D	17000		ug/L	7
004	SB-4	Solid	Benzene	8260D	40000	JQ	ug/kg	10
004	SB-4	Solid	Ethylbenzene	8260D	100000	Q	ug/kg	10
004	SB-4	Solid	Naphthalene	8260D	120000	Q	ug/kg	10
004	SB-4	Solid	Toluene	8260D	560000	Q	ug/kg	10
004	SB-4	Solid	Xylenes (total)	8260D	2400000	Q	ug/kg	10
005	SB-5	Solid	Benzene	8260D	48000	Q	ug/kg	11
005	SB-5	Solid	Ethylbenzene	8260D	120000	Q	ug/kg	11
005	SB-5	Solid	Naphthalene	8260D	33000	JQ	ug/kg	11
005	SB-5	Solid	Toluene	8260D	410000	Q	ug/kg	11
005	SB-5	Solid	Xylenes (total)	8260D	710000	Q	ug/kg	11
006	SB-6	Solid	Benzene	8260D	150000	Q	ug/kg	12
006	SB-6	Solid	Ethylbenzene	8260D	330000	Q	ug/kg	12
006	SB-6	Solid	Naphthalene	8260D	140000	Q	ug/kg	12
006	SB-6	Solid	Toluene	8260D	1500000	Q	ug/kg	12
006	SB-6	Solid	Xylenes (total)	8260D	3700000	Q	ug/kg	12
007	SB-7	Solid	Benzene	8260D	16000	JQ	ug/kg	13
007	SB-7	Solid	Ethylbenzene	8260D	61000	Q	ug/kg	13
007	SB-7	Solid	Naphthalene	8260D	21000	Q	ug/kg	13
007	SB-7	Solid	Toluene	8260D	34000	Q	ug/kg	13
007	SB-7	Solid	Xylenes (total)	8260D	300000	Q	ug/kg	13
008	SB-8	Solid	Benzene	8260D	4800	Q	ug/kg	14
008	SB-8	Solid	Ethylbenzene	8260D	16000	Q	ug/kg	14
008	SB-8	Solid	Naphthalene	8260D	4300	Q	ug/kg	14
008	SB-8	Solid	Toluene	8260D	66000	Q	ug/kg	14
008	SB-8	Solid	Xylenes (total)	8260D	130000	Q	ug/kg	14
009	SB-9	Solid	Benzene	8260D	22000	Q	ug/kg	15
009	SB-9	Solid	Ethylbenzene	8260D	47000	Q	ug/kg	15
009	SB-9	Solid	Naphthalene	8260D	9800	Q	ug/kg	15
009	SB-9	Solid	Toluene	8260D	190000	Q	ug/kg	15
009	SB-9	Solid	Xylenes (total)	8260D	270000	Q	ug/kg	15
010	SB-10	Solid	Benzene	8260D	1500	H	ug/kg	16
010	SB-10	Solid	Ethylbenzene	8260D	3000	H	ug/kg	16
010	SB-10	Solid	Naphthalene	8260D	2300	H	ug/kg	16
010	SB-10	Solid	Toluene	8260D	15000	H	ug/kg	16
010	SB-10	Solid	Xylenes (total)	8260D	39000	H	ug/kg	16
011	SB-11	Solid	Naphthalene	8260D	5.1	HJ	ug/kg	17
011	SB-11	Solid	Toluene	8260D	14	H	ug/kg	17
011	SB-11	Solid	Xylenes (total)	8260D	57	H	ug/kg	17
012	SB-12	Solid	Ethylbenzene	8260D	16	H	ug/kg	18

Detection Summary (Continued)

Lot Number: WK06013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
012	SB-12	Solid	Naphthalene	8260D	8.3	H	ug/kg	18
012	SB-12	Solid	Toluene	8260D	16	H	ug/kg	18
012	SB-12	Solid	Xylenes (total)	8260D	150	H	ug/kg	18
016	MW-17R	Solid	TOC	Walkley-Black	2400		mg/kg	22

(49 detections)

Client: **Katawba Environmental, Inc.**Laboratory ID: **WK06013-001**Description: **SB-1**Matrix: **Aqueous**Date Sampled: **11/02/2021 1556**Date Received: **11/03/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	500	11/15/2021 1859	BWS		22538		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		10000	4000	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		5000	210	ug/L	1	
Benzene	71-43-2	8260D	14000		500	200	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		2500	1000	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		500	200	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	2600		500	200	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		10000	4000	ug/L	1	
Ethanol	64-17-5	8260D	ND		50000	26000	ug/L	1	
Ethylbenzene	100-41-4	8260D	4300		500	200	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		500	200	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		500	200	ug/L	1	
Naphthalene	91-20-3	8260D	1200		500	200	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		10000	4000	ug/L	1	
Toluene	108-88-3	8260D	25000		500	200	ug/L	1	
Xylenes (total)	1330-20-7	8260D	17000		500	200	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		96	70-130						
Toluene-d8		96	70-130						
Bromofluorobenzene		96	70-130						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

Q = Surrogate failure

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Description: **SB-2**Matrix: **Aqueous**Date Sampled: **11/02/2021 1418**Date Received: **11/03/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	10	11/15/2021 1833	BWS		22538
2	5030B	8260D	10	11/17/2021 2039	ECB		22832

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		200	80	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		100	4.2	ug/L	1
Benzene	71-43-2	8260D	ND		10	4.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		50	20	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		10	4.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		10	4.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		200	80	ug/L	1
Ethanol	64-17-5	8260D	ND		1000	520	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		10	4.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		10	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		10	4.0	ug/L	1
Naphthalene	91-20-3	8260D	ND	H	10	4.0	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		200	80	ug/L	1
Toluene	108-88-3	8260D	ND		10	4.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/L	1

Surrogate	Run 1			Run 2		
	Q	% Recovery	Acceptance Limits	Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130	H	91	70-130
Toluene-d8		95	70-130	H	94	70-130
Bromofluorobenzene		93	70-130	H	93	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035 High	8260D	1	11/17/2021 1819	JM1		23234	3.10

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	ND	H	1100	450	ug/kg	3
Ethylbenzene	100-41-4	8260D	ND	H	1100	450	ug/kg	3
Naphthalene	91-20-3	8260D	ND	H	1100	450	ug/kg	3
Toluene	108-88-3	8260D	ND	H	1100	450	ug/kg	3
Xylenes (total)	1330-20-7	8260D	ND	H	2300	900	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
Bromofluorobenzene	H	83	47-138
1,2-Dichloroethane-d4	H	96	53-142
Toluene-d8	H	88	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035 High	8260D	100	11/16/2021 1452	JM1		22764	4.98

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	40000	JQ	89000	35000	ug/kg	2
Ethylbenzene	100-41-4	8260D	100000	Q	89000	35000	ug/kg	2
Naphthalene	91-20-3	8260D	120000	Q	89000	35000	ug/kg	2
Toluene	108-88-3	8260D	560000	Q	89000	35000	ug/kg	2
Xylenes (total)	1330-20-7	8260D	2400000	Q	180000	71000	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene	N	355	47-138
1,2-Dichloroethane-d4	N	237	53-142
Toluene-d8	N	264	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-005**

Description: **SB-5**

Matrix: **Solid**

Date Sampled: **11/02/2021 1240**

% Solids: **73.8 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035 High	8260D	100	11/15/2021 1310	JM1		22541	5.39

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	48000	Q	40000	16000	ug/kg	1
Ethylbenzene	100-41-4	8260D	120000	Q	40000	16000	ug/kg	1
Naphthalene	91-20-3	8260D	33000	JQ	40000	16000	ug/kg	1
Toluene	108-88-3	8260D	410000	Q	40000	16000	ug/kg	1
Xylenes (total)	1330-20-7	8260D	710000	Q	81000	32000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	N	281	47-138
1,2-Dichloroethane-d4	N	180	53-142
Toluene-d8	N	189	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: Katawba Environmental, Inc.	Laboratory ID: WK06013-006
Description: SB-6	Matrix: Solid
Date Sampled: 11/02/2021 1213	% Solids: 53.4 11/08/2021 0042
Date Received: 11/03/2021	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035 High	8260D	100	11/15/2021 1333	JM1		22541	4.64

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	150000	Q	72000	29000	ug/kg	1
Ethylbenzene	100-41-4	8260D	330000	Q	72000	29000	ug/kg	1
Naphthalene	91-20-3	8260D	140000	Q	72000	29000	ug/kg	1
Toluene	108-88-3	8260D	1500000	Q	72000	29000	ug/kg	1
Xylenes (total)	1330-20-7	8260D	3700000	Q	140000	58000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	N	285	47-138
1,2-Dichloroethane-d4	N	178	53-142
Toluene-d8	N	241	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: Katawba Environmental, Inc.	Laboratory ID: WK06013-007
Description: SB-7	Matrix: Solid
Date Sampled: 11/02/2021 1150	% Solids: 73.3 11/08/2021 0042
Date Received: 11/03/2021	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035 High	8260D	40	11/15/2021 1355	JM1		22541	4.19

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	16000	JQ	20000	8000	ug/kg	1
Ethylbenzene	100-41-4	8260D	61000	Q	20000	8000	ug/kg	1
Naphthalene	91-20-3	8260D	21000	Q	20000	8000	ug/kg	1
Toluene	108-88-3	8260D	34000	Q	20000	8000	ug/kg	1
Xylenes (total)	1330-20-7	8260D	300000	Q	40000	16000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	N	150	47-138
1,2-Dichloroethane-d4		124	53-142
Toluene-d8	N	135	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-008**

Description: **SB-8**

Matrix: **Solid**

Date Sampled: **11/02/2021 1123**

% Solids: **75.9 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035 High	8260D	10	11/15/2021 1419	JM1		22541	5.55

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	4800	Q	3800	1500	ug/kg	1
Ethylbenzene	100-41-4	8260D	16000	Q	3800	1500	ug/kg	1
Naphthalene	91-20-3	8260D	4300	Q	3800	1500	ug/kg	1
Toluene	108-88-3	8260D	66000	Q	3800	1500	ug/kg	1
Xylenes (total)	1330-20-7	8260D	130000	Q	7500	3000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	N	140	47-138
1,2-Dichloroethane-d4		139	53-142
Toluene-d8	N	127	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: Katawba Environmental, Inc.	Laboratory ID: WK06013-009
Description: SB-9	Matrix: Solid
Date Sampled: 11/02/2021 1110	% Solids: 74.5 11/08/2021 0042
Date Received: 11/03/2021	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035 High	8260D	20	11/15/2021 1442	JM1		22541	4.44

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	22000	Q	9300	3700	ug/kg	1
Ethylbenzene	100-41-4	8260D	47000	Q	9300	3700	ug/kg	1
Naphthalene	91-20-3	8260D	9800	Q	9300	3700	ug/kg	1
Toluene	108-88-3	8260D	190000	Q	9300	3700	ug/kg	1
Xylenes (total)	1330-20-7	8260D	270000	Q	19000	7400	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	N	147	47-138
1,2-Dichloroethane-d4		136	53-142
Toluene-d8	N	131	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: Katawba Environmental, Inc.	Laboratory ID: WK06013-010
Description: SB-10	Matrix: Solid
Date Sampled: 11/02/2021 1041	% Solids: 82.2 11/08/2021 0042
Date Received: 11/03/2021	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035 High	8260D	4	11/17/2021 1951	JM1		23234	5.41

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	1500	H	1300	540	ug/kg	3
Ethylbenzene	100-41-4	8260D	3000	H	1300	540	ug/kg	3
Naphthalene	91-20-3	8260D	2300	H	1300	540	ug/kg	3
Toluene	108-88-3	8260D	15000	H	1300	540	ug/kg	3
Xylenes (total)	1330-20-7	8260D	39000	H	2700	1100	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
Bromofluorobenzene	H	97	47-138
1,2-Dichloroethane-d4	H	93	53-142
Toluene-d8	H	86	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-011**

Description: **SB-11**

Matrix: **Solid**

Date Sampled: **11/02/2021 0936**

% Solids: **71.6 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260D	1	11/17/2021 1732	TML		22770	3.46

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	ND	H	10	4.0	ug/kg	2
Ethylbenzene	100-41-4	8260D	ND	H	10	4.0	ug/kg	2
Naphthalene	91-20-3	8260D	5.1	HJ	10	4.0	ug/kg	2
Toluene	108-88-3	8260D	14	H	10	4.0	ug/kg	2
Xylenes (total)	1330-20-7	8260D	57	H	20	8.1	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene	H	96	47-138
1,2-Dichloroethane-d4	H	97	53-142
Toluene-d8	H	110	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-012**

Description: **SB-12**

Matrix: **Solid**

Date Sampled: **11/02/2021 0919**

% Solids: **73.6 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260D	1	11/17/2021 1755	TML		22770	4.18

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	ND	H	8.1	3.2	ug/kg	2
Ethylbenzene	100-41-4	8260D	16	H	8.1	3.2	ug/kg	2
Naphthalene	91-20-3	8260D	8.3	H	8.1	3.2	ug/kg	2
Toluene	108-88-3	8260D	16	H	8.1	3.2	ug/kg	2
Xylenes (total)	1330-20-7	8260D	150	H	16	6.5	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene	H	95	47-138
1,2-Dichloroethane-d4	H	96	53-142
Toluene-d8	H	103	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-013**

Description: **SB-13**

Matrix: **Solid**

Date Sampled: **11/02/2021 0846**

% Solids: **73.1 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	11/15/2021 1751	JM1		22500	4.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	ND		6.9	2.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		6.9	2.7	ug/kg	1
Naphthalene	91-20-3	8260D	ND		6.9	2.7	ug/kg	1
Toluene	108-88-3	8260D	ND		6.9	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		14	5.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-014**

Description: **SB-14**

Matrix: **Solid**

Date Sampled: **11/02/2021 0805**

% Solids: **76.4 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	11/15/2021 1815	JM1		22500	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	ND		5.5	2.2	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.5	2.2	ug/kg	1
Naphthalene	91-20-3	8260D	ND		5.5	2.2	ug/kg	1
Toluene	108-88-3	8260D	ND		5.5	2.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: **Katawba Environmental, Inc.**

Laboratory ID: **WK06013-015**

Description: **SB-14 DUP**

Matrix: **Solid**

Date Sampled: **11/02/2021 0807**

% Solids: **73.6 11/08/2021 0042**

Date Received: **11/03/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	11/15/2021 1839	JM1		22500	3.94

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	8260D	ND		8.6	3.4	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		8.6	3.4	ug/kg	1
Naphthalene	91-20-3	8260D	ND		8.6	3.4	ug/kg	1
Toluene	108-88-3	8260D	ND		8.6	3.4	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		17	6.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Client: Katawba Environmental, Inc.	Laboratory ID: WK06013-016
Description: MW-17R	Matrix: Solid
Date Sampled: 11/02/2021 1646	% Solids: 84.1 11/08/2021 0042
Date Received: 11/03/2021	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(TOC) Walkley-Black	1	11/17/2021 2113	DAK		22862

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
TOC		Walkley-Black	2400		200	100	mg/kg	1

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis

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Description: **TB**Matrix: **Aqueous**Date Sampled: **11/02/2021 1649**Date Received: **11/03/2021****Volatile Organic Compounds by GC/MS**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260D	1	11/14/2021 2016	JWO		22440			
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1		
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1		
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1		
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1		
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	8.0	ug/L	1		
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1		
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1		
Surrogate	Run 1	Acceptance								
	Q	% Recovery	Limits							
1,2-Dichloroethane-d4	94	70-130								
Toluene-d8	98	70-130								
Bromofluorobenzene	98	70-130								

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ22862-001

Matrix: Solid

Batch: 22862

Analytical Method: Walkley-Black

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
TOC	ND		1	200	100	mg/kg	11/17/2021 2113

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: WQ22862-002

Matrix: Solid

Batch: 22862

Analytical Method: Walkley-Black

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	1000	960		1	96	80-120	11/17/2021 2113

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22440-001

Matrix: Aqueous

Batch: 22440

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/14/2021 1648
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/14/2021 1648
Benzene	ND		1	1.0	0.40	ug/L	11/14/2021 1648
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/14/2021 1648
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	11/14/2021 1648
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/14/2021 1648
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/14/2021 1648
Ethanol	ND		1	100	52	ug/L	11/14/2021 1648
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/14/2021 1648
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/14/2021 1648
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/14/2021 1648
Naphthalene	ND		1	1.0	0.40	ug/L	11/14/2021 1648
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/14/2021 1648
Toluene	ND		1	1.0	0.40	ug/L	11/14/2021 1648
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/14/2021 1648

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		96	70-130
Bromofluorobenzene		93	70-130

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22440-002

Matrix: Aqueous

Batch: 22440

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	102	70-130	11/14/2021 1531
tert-Amyl methyl ether (TAME)	50	46		1	93	70-130	11/14/2021 1531
Benzene	50	47		1	94	70-130	11/14/2021 1531
tert-Butyl formate (TBF)	250	270		1	108	70-130	11/14/2021 1531
1,2-Dichloroethane	50	48		1	95	70-130	11/14/2021 1531
Diisopropyl ether (IPE)	50	50		1	99	70-130	11/14/2021 1531
3,3-Dimethyl-1-butanol	1000	1000		1	103	70-130	11/14/2021 1531
Ethanol	5000	4700		1	95	70-130	11/14/2021 1531
Ethylbenzene	50	47		1	94	70-130	11/14/2021 1531
Ethyl-tert-butyl ether (ETBE)	50	48		1	97	70-130	11/14/2021 1531
Methyl tertiary butyl ether (MTBE)	50	49		1	97	70-130	11/14/2021 1531
Naphthalene	50	49		1	98	70-130	11/14/2021 1531
tert-butyl alcohol (TBA)	1000	1000		1	103	70-130	11/14/2021 1531
Toluene	50	48		1	96	70-130	11/14/2021 1531
Xylenes (total)	100	95		1	95	70-130	11/14/2021 1531
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		94	70-130				
Toluene-d8		96	70-130				
Bromofluorobenzene		95	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22500-001

Matrix: Solid

Batch: 22500

Prep Method: 5035

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	5.0	2.0	ug/kg	11/15/2021 1007
Ethylbenzene	ND		1	5.0	2.0	ug/kg	11/15/2021 1007
Naphthalene	ND		1	5.0	2.0	ug/kg	11/15/2021 1007
Toluene	ND		1	5.0	2.0	ug/kg	11/15/2021 1007
Xylenes (total)	ND		1	10	4.0	ug/kg	11/15/2021 1007
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		105	47-138				
1,2-Dichloroethane-d4		77	53-142				
Toluene-d8		88	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22500-002

Matrix: Solid

Batch: 22500

Prep Method: 5035

Analytical Method: 8260D

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	50	48		1	95	70-130	11/15/2021 0919
Ethylbenzene	50	49		1	98	70-130	11/15/2021 0919
Naphthalene	50	49		1	98	70-130	11/15/2021 0919
Toluene	50	48		1	96	70-130	11/15/2021 0919
Xylenes (total)	100	99		1	99	70-130	11/15/2021 0919
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		89	47-138				
1,2-Dichloroethane-d4		88	53-142				
Toluene-d8		92	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22538-001

Matrix: Aqueous

Batch: 22538

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	11/15/2021 1008
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	11/15/2021 1008
Benzene	ND		1	1.0	0.40	ug/L	11/15/2021 1008
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	11/15/2021 1008
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	11/15/2021 1008
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	11/15/2021 1008
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	11/15/2021 1008
Ethanol	ND		1	100	52	ug/L	11/15/2021 1008
Ethylbenzene	ND		1	1.0	0.40	ug/L	11/15/2021 1008
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	11/15/2021 1008
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	11/15/2021 1008
Naphthalene	ND		1	1.0	0.40	ug/L	11/15/2021 1008
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	11/15/2021 1008
Toluene	ND		1	1.0	0.40	ug/L	11/15/2021 1008
Xylenes (total)	ND		1	1.0	0.40	ug/L	11/15/2021 1008
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		94	70-130				
Toluene-d8		95	70-130				
Bromofluorobenzene		95	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22538-002

Matrix: Aqueous

Batch: 22538

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	70-130	11/15/2021 0907
tert-Amyl methyl ether (TAME)	50	48		1	95	70-130	11/15/2021 0907
Benzene	50	49		1	99	70-130	11/15/2021 0907
tert-Butyl formate (TBF)	250	260		1	105	70-130	11/15/2021 0907
1,2-Dichloroethane	50	50		1	101	70-130	11/15/2021 0907
Diisopropyl ether (IPE)	50	52		1	104	70-130	11/15/2021 0907
3,3-Dimethyl-1-butanol	1000	1100		1	106	70-130	11/15/2021 0907
Ethanol	5000	5400		1	108	70-130	11/15/2021 0907
Ethylbenzene	50	50		1	99	70-130	11/15/2021 0907
Ethyl-tert-butyl ether (ETBE)	50	51		1	101	70-130	11/15/2021 0907
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	11/15/2021 0907
Naphthalene	50	53		1	105	70-130	11/15/2021 0907
tert-butyl alcohol (TBA)	1000	1000		1	104	70-130	11/15/2021 0907
Toluene	50	50		1	100	70-130	11/15/2021 0907
Xylenes (total)	100	99		1	99	70-130	11/15/2021 0907
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		100	70-130				
Bromofluorobenzene		99	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22541-001

Matrix: Solid

Batch: 22541

Prep Method: 5035 High

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	250	100	ug/kg	11/15/2021 1136
Ethylbenzene	ND		1	250	100	ug/kg	11/15/2021 1136
Naphthalene	ND		1	250	100	ug/kg	11/15/2021 1136
Toluene	ND		1	250	100	ug/kg	11/15/2021 1136
Xylenes (total)	ND		1	500	200	ug/kg	11/15/2021 1136
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	47-138				
1,2-Dichloroethane-d4		101	53-142				
Toluene-d8		107	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22541-002

Matrix: Solid

Batch: 22541

Prep Method: 5035 High

Analytical Method: 8260D

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	2500	2500		1	101	70-130	11/15/2021 1113
Ethylbenzene	2500	2600		1	104	70-130	11/15/2021 1113
Naphthalene	2500	2400		1	96	70-130	11/15/2021 1113
Toluene	2500	2600		1	106	70-130	11/15/2021 1113
Xylenes (total)	5000	5200		1	103	70-130	11/15/2021 1113
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	47-138				
1,2-Dichloroethane-d4		96	53-142				
Toluene-d8		108	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22764-001

Matrix: Solid

Batch: 22764

Prep Method: 5035 High

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	250	100	ug/kg	11/12/2021 1020
Ethylbenzene	ND		1	250	100	ug/kg	11/12/2021 1020
Naphthalene	ND		1	250	100	ug/kg	11/12/2021 1020
Toluene	ND		1	250	100	ug/kg	11/12/2021 1020
Xylenes (total)	ND		1	500	200	ug/kg	11/12/2021 1020
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene	96		47-138				
1,2-Dichloroethane-d4	100		53-142				
Toluene-d8	103		68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22764-002

Matrix: Solid

Batch: 22764

Prep Method: 5035 High

Analytical Method: 8260D

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	DII	% Rec	%Rec Limit	Analysis Date
Benzene	2500	2300		1	92	70-130	11/12/2021 0957
Ethylbenzene	2500	2400		1	94	70-130	11/12/2021 0957
Naphthalene	2500	2500		1	98	70-130	11/12/2021 0957
Toluene	2500	2400		1	98	70-130	11/12/2021 0957
Xylenes (total)	5000	4700		1	94	70-130	11/12/2021 0957
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		89	47-138				
1,2-Dichloroethane-d4		89	53-142				
Toluene-d8		97	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22770-001

Matrix: Solid

Batch: 22770

Prep Method: 5035

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	5.0	2.0	ug/kg	11/17/2021 0949
Ethylbenzene	ND		1	5.0	2.0	ug/kg	11/17/2021 0949
Naphthalene	ND		1	5.0	2.0	ug/kg	11/17/2021 0949
Toluene	ND		1	5.0	2.0	ug/kg	11/17/2021 0949
Xylenes (total)	ND		1	10	4.0	ug/kg	11/17/2021 0949
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	47-138				
1,2-Dichloroethane-d4		95	53-142				
Toluene-d8		100	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22770-002

Matrix: Solid

Batch: 22770

Prep Method: 5035

Analytical Method: 8260D

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	50	47		1	94	70-130	11/17/2021 0902
Ethylbenzene	50	49		1	98	70-130	11/17/2021 0902
Naphthalene	50	51		1	103	70-130	11/17/2021 0902
Toluene	50	49		1	98	70-130	11/17/2021 0902
Xylenes (total)	100	99		1	99	70-130	11/17/2021 0902
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		95	47-138				
1,2-Dichloroethane-d4		93	53-142				
Toluene-d8		100	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ22770-003

Matrix: Solid

Batch: 22770

Prep Method: 5035

Analytical Method: 8260D

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Benzene	50	46		1	93	0.81	70-130	20	11/17/2021 0925
Ethylbenzene	50	48		1	97	0.62	70-130	20	11/17/2021 0925
Naphthalene	50	48		1	97	6.0	70-130	20	11/17/2021 0925
Toluene	50	47		1	93	5.1	70-130	20	11/17/2021 0925
Xylenes (total)	100	97		1	97	1.7	70-130	20	11/17/2021 0925
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		99	47-138						
1,2-Dichloroethane-d4		94	53-142						
Toluene-d8		95	68-124						

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ22832-001

Matrix: Aqueous

Batch: 22832

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Naphthalene	ND		1	1.0	0.40	ug/L	11/17/2021 1124
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		90	70-130				
Toluene-d8		96	70-130				
Bromofluorobenzene		94	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ22832-002

Matrix: Aqueous

Batch: 22832

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Naphthalene	50	56		1	112	70-130	11/17/2021 1012
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		105	70-130				
Bromofluorobenzene		103	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ23234-001

Matrix: Solid

Batch: 23234

Prep Method: 5035 High

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	250	100	ug/kg	11/15/2021 1136
Ethylbenzene	ND		1	250	100	ug/kg	11/15/2021 1136
Naphthalene	ND		1	250	100	ug/kg	11/15/2021 1136
Toluene	ND		1	250	100	ug/kg	11/15/2021 1136
Xylenes (total)	ND		1	500	200	ug/kg	11/15/2021 1136
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene	98		47-138				
1,2-Dichloroethane-d4	101		53-142				
Toluene-d8	107		68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ23234-002

Matrix: Solid

Batch: 23234

Prep Method: 5035 High

Analytical Method: 8260D

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	2500	2500		1	101	70-130	11/15/2021 1113
Ethylbenzene	2500	2600		1	104	70-130	11/15/2021 1113
Naphthalene	2500	2400		1	96	70-130	11/15/2021 1113
Toluene	2500	2600		1	106	70-130	11/15/2021 1113
Xylenes (total)	5000	5200		1	103	70-130	11/15/2021 1113
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	47-138				
1,2-Dichloroethane-d4		96	53-142				
Toluene-d8		108	68-124				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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**Chain of Custody
and
Miscellaneous Documents**



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 119352

Client: KATAWHA ENVIRONMENTAL		Report to Contact: <i>[Signature]</i>		Telephone No. / E-mail:		Quote No.:											
Address: 427E Dye Rd		Sampler's Signature: <i>[Signature]</i>		Analysis (Attach list if more space is needed):		Page 1 of 2											
City: EDGEWATER	State: SC	Zip Code: 29712	Printed Name: <i>[Signature]</i>		1 of 8 Bar Code		 WK06013 LIC										
Project Name: OKATIE MANS		Project No.: OKATIE MANS		P.O. No.: OKATIE													
Sample ID / Description (Containers for each sample may be combined on one line.)		Collection Date(s)	Collection Time (MM:SS)	Matrix	No. of Containers by Parameter Type												
					Asbestos	Lead	Mercury	PCB	Pb	PAH	PCDD/F	PCB	PCP	PCP	PCP	PCP	PCP
SB-1		11/2/21	15:56	X													
SB-2			14:18	X													
SB-3			13:50	X													
SB-4			13:36	X													
SB-5			12:40	X													
SB-6			12:13	X													
SB-7			11:50	X													
SB-8			11:23	X													
SB-9			11:10	X													
SB-10		11/2/21	10:41	X													
Turn Around Time Required (Prior lab approval required for expedited TAT.)				Sample Disposal				Possible Hazard Identification				QC Requirements (Specify)					
Standard <input type="checkbox"/> Rush (Specify) <input checked="" type="checkbox"/> 1-27 TAT				Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/>				Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown <input type="checkbox"/>									
1. Relinquished by: <i>[Signature]</i>		Date: 11/3/21	Time: 17:44	1. Received by:		Date:	Time:	2. Received by:		Date:	Time:	3. Received by:		Date:	Time:	4. Laboratory received by: <i>[Signature]</i>	
2. Relinquished by:		Date:	Time:	2. Received by:		Date:	Time:	3. Received by:		Date:	Time:	4. Laboratory received by:		Date: 11/3/21	Time: 17:44	Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N	
3. Relinquished by:		Date:	Time:	3. Received by:		Date:	Time:	4. Laboratory received by:		Date:	Time:	4. Laboratory received by:		Date:	Time:	Received on Ice (Check) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ice Pack Receipt Temp. 6.0 °C	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY													

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME00092-01



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 127634

Pace Analytical Services, LLC (formerly Shear Environmental Services, Inc.)
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Client <u>Katana Runway</u>		Report to Contact <u>Andy Amos</u>		Telephone No. / E-mail		Quote No.	
Address <u>4278 Dye Rd</u>		Sampler's Signature <u>[Signature]</u>		Analysis (Attach list if more space is needed)		Page <u>2 of 2</u>	
City <u>Edgecumbe</u> State <u>SC</u> Zip Code <u>29712</u>		X Printed Name <u>Andy Amos</u>		8260 BIRDM TOC 8260 BIRDM		 WK06013 L60 Remarks / Linn.	
Project Name <u>OKATIA MAR</u>		Project No. <u>OKATIA MAR</u>		Metric		No. of Containers by Preservative Type	
Sample ID / Description (Containers for each sample may be combined on one line)		Collection Date/Time		Matrix		PRESERVATIVE TYPE	
SB-11		11/2/21 9:36		X		X	
SB-12		↑ 9:19		X			
SB-13		8:46		X			
SB-14		8:05		X			
SB-14 Dup		8:07		X		X	
MWD-17R		16:46		X		X	
TB		11/2/21 16:49		X		X	

Turn Around Time Required (Prior lab approval required for expedited TAT)		Sample Disposal		Possible Hazard Identification		QC Requirements (Specify)	
Standard : <u>Flush (Specify)</u>		1. Return to Client : <u>None</u> Disposal by Lab		1. Non-Hazard <input type="checkbox"/> 2. Flammable <input type="checkbox"/> 3. Skin Irritant <input type="checkbox"/> 4. Poison <input type="checkbox"/> 5. Unknown <input type="checkbox"/>			
1. Relinquished by <u>[Signature]</u>		Date <u>11/2/21</u> Time <u>17:44</u>		1. Received by		Date	
2. Relinquished by		Date		2. Received by		Date	
3. Relinquished by		Date		3. Received by		Date	
4. Relinquished by		Date		4. Laboratory received by <u>[Signature]</u>		Date <u>11/3/21</u> Time <u>17:44</u>	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY		Temp Blank <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
				Received on Ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack		Receipt Temp <u>6.0</u> °C	

PACE ANALYTICAL SERVICES, LLC

PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: KATAWBA

Cooler Inspected by/date: JRG2 / 11/6/2021

Lot #: WK06015

Means of receipt: <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt: %Solid Snap-Cup ID: 21-1928	
6.0 / 6.0 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Sample(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: NA	
SR barcode labels applied by: KDRW Date: 11/06/2021	

Comments:



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S1

Issue No: 1

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc. If a non-compliance appears on this report, to the extent that the reported non-compliance impacts the project, the resolution is outside the PSI scope of engagement.

Material Test Report

Client: KATAWBA ENVIRONMENTAL
POST OFFICE BOX 11228
ROCK HILL, SC 29731

CC: ALEX AMOS

Project: GRAIN SIZE ANALYSIS

Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S1
Client Sample ID: Okatie Mart SB1 8FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 8FT

Sample Description:

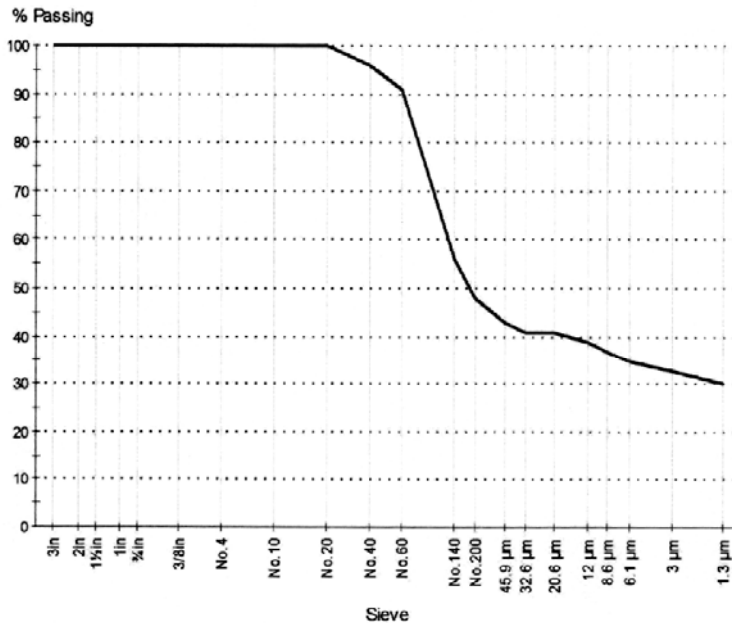
Tan Silty, Clayey SAND (SC-SM)

Grading: ASTM D 422

Drying By: Oven
Date Tested: 11/23/2021
Tested By: Marie Benoit

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2in (50.0mm)	100	
1½in (37.5mm)	100	
1in (25.0mm)	100	
¾in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.10 (2.0mm)	100	
No.20 (850µm)	100	
No.40 (425µm)	96	
No.60 (250µm)	91	
No.140 (106µm)	56	
No.200 (75µm)	48	
45.9 µm	42.9	
32.6 µm	40.9	
20.6 µm	40.9	
12.0 µm	38.9	
8.6 µm	36.9	
6.1 µm	34.7	
3.0 µm	32.7	
1.3 µm	29.9	

Particle Size Distribution



COBBLES	GRAVEL		SAND			FINES	
	Coarse (0.0%)	Fine (0.0%)	Coarse (0.0%)	Medium (3.7%)	Fine (48.5%)	Silt (13.8%)	Clay (34.0%)
(0.0%)	(0.0%)	(0.0%)	(0.0%)	(3.7%)	(48.5%)	(13.8%)	(34.0%)

D85: 0.2158 D60: 0.1169 D50: 0.0818
D30: 0.0013 D15: N/A D10: N/A



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S1

Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL
POST OFFICE BOX 11228
ROCK HILL, SC 29731

CC: ALEX AMOS

Project: GRAIN SIZE ANALYSIS



Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S1
Client Sample ID: Okatie Mart SB1 8FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 8FT

Other Test Results

Description	Method	Result	Limits
Dispersion device	ASTM D 422	Dispersant by hand	
Dispersion time (min)		1	
Shape			
Hardness			
Fm		N/A	
Cu		N/A	
Cc		N/A	
CuS		2.00	
CcS		0.93	
Dm (mm)		N/A	
U-Number		65	
D50S (mm)		0.163	
D50G (mm)		N/A	

Comments

N/A



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S2

Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL
POST OFFICE BOX 11228
ROCK HILL, SC 29731

CC: ALEX AMOS

Project: GRAIN SIZE ANALYSIS

Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

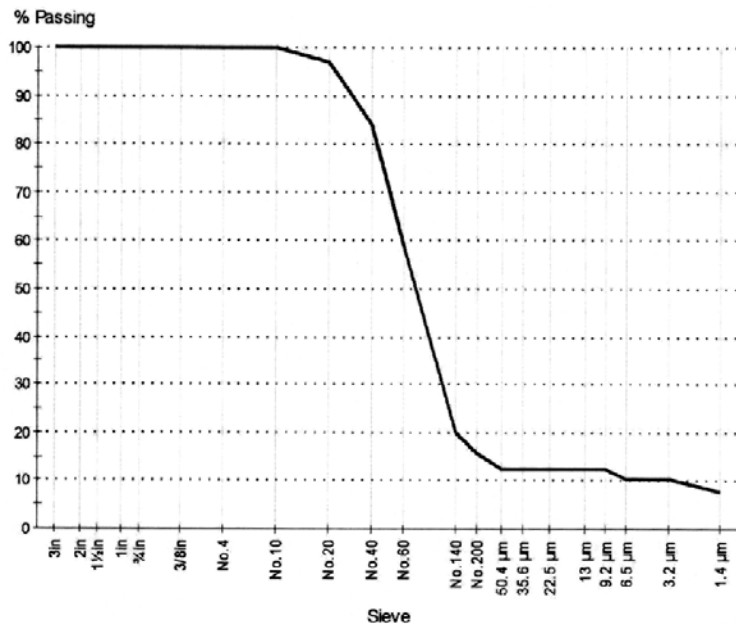
Sample Details

Sample ID: 0451102-67-S2
Client Sample ID: Okatie Mart SB1 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 15FT

Sample Description:

Tan Silty, Clayey SAND (SC-SM)

Particle Size Distribution



Grading: ASTM D 422

Date Tested: 11/23/2021
Tested By: Marie Benoit

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2in (50.0mm)	100	
1 1/2in (37.5mm)	100	
1in (25.0mm)	100	
3/4in (19.0mm)	100	
3/8in (9.5mm)	100	
No.4 (4.75mm)	100	
No.10 (2.0mm)	100	
No.20 (850µm)	97	
No.40 (425µm)	84	
No.60 (250µm)	59	
No.140 (106µm)	20	
No.200 (75µm)	16	
50.4 µm	12.6	
35.6 µm	12.6	
22.5 µm	12.6	
13.0 µm	12.6	
9.2 µm	12.6	
6.5 µm	10.6	
3.2 µm	10.5	
1.4 µm	7.9	

COBBLES	GRAVEL		SAND			FINES	
	Coarse (0.0%)	Fine (0.0%)	Coarse (0.1%)	Medium (16.2%)	Fine (67.6%)	Silt (5.5%)	Clay (10.6%)
(0.0%)	(0.0%)	(0.0%)	(0.1%)	(16.2%)	(67.6%)	(5.5%)	(10.6%)

D85: 0.4483 **D60:** 0.2554 **D50:** 0.2051
D30: 0.1321 **D15:** 0.0667 **D10:** 0.0027
Cu: 93.55 **Cc:** 25.03



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-8050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S2

Issue No: 1

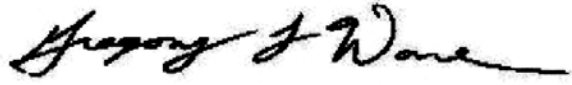
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Material Test Report

Client: KATAWBA ENVIRONMENTAL
POST OFFICE BOX 11228
ROCK HILL, SC 29731

CC: ALEX AMOS

Project: GRAIN SIZE ANALYSIS



Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S2
Client Sample ID: Okatie Mart SB1 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 15FT

Other Test Results

Description	Method	Result	Limits
Dispersion device	ASTM D 422	Dispersant by hand	
Dispersion time (min)		1	
Shape			
Hardness			
Fm		N/A	
Cu		93.55	
Cc		25.03	
CuS		2.47	
CcS		0.83	
Dm (mm)		0.240	
U-Number		47	
D50S (mm)		0.242	
D50G (mm)		3.082	

Comments

N/A



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S3

Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL
POST OFFICE BOX 11228
ROCK HILL, SC 29731

CC: ALEX AMOS

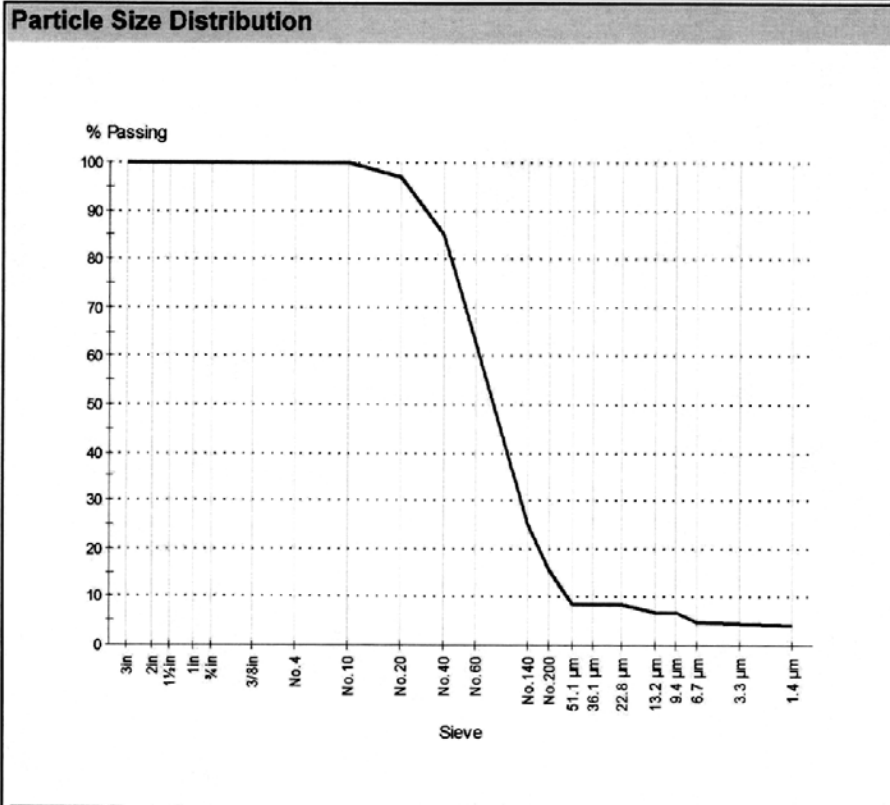
Project: GRAIN SIZE ANALYSIS

Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S3
Client Sample ID: Okatie Mart SB2 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB2 15FT

Sample Description:
Tan Silty, Clayey SAND (SC-SM)



Grading: ASTM D 422

Drying By: Oven
Date Tested: 11/23/2021
Tested By: Marie Benoit

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2in (50.0mm)	100	
1 1/2in (37.5mm)	100	
1in (25.0mm)	100	
3/4in (19.0mm)	100	
3/8in (9.5mm)	100	
No. 4 (4.75mm)	100	
No. 10 (2.0mm)	100	
No. 20 (850µm)	97	
No. 40 (425µm)	85	
No. 60 (250µm)	63	
No. 100 (106µm)	25	
No. 200 (75µm)	16	
51.1 µm	8.6	
36.1 µm	8.6	
22.8 µm	8.6	
13.2 µm	6.6	
9.4 µm	6.6	
6.7 µm	4.7	
3.3 µm	4.5	
1.4 µm	3.9	

COBBLES	GRAVEL		SAND			FINES	
	Coarse (0.0%)	Fine (0.3%)	Coarse (0.1%)	Medium (14.8%)	Fine (68.6%)	Silt (11.7%)	Clay (4.6%)

D85: 0.4250 D60: 0.2336 D50: 0.1864
D30: 0.1187 D15: 0.0712 D10: 0.0549
Cu: 4.25 Cc: 1.10



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S3

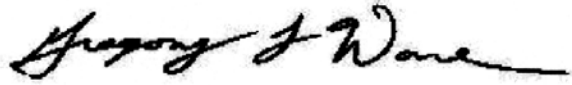
Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL **CC:** ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS



Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S3
Client Sample ID: Okatie Mart SB2 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB2 15FT

Other Test Results

Description	Method	Result	Limits
Dispersion device	ASTM D 422	Dispersant by hand	
Dispersion time (min)		1	
Shape			
Hardness			
Fm		N/A	
Cu		4.25	
Cc		1.10	
CuS		2.56	
CcS		0.83	
Dm (mm)		0.230	
U-Number		51	
D50S (mm)		0.223	
D50G (mm)		5.963	

Comments

N/A

**APPENDIX D
DISPOSAL MANIFESTS**

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address		KATAWIBA ENVIRONMENTAL 4278 DYE ROAD ROSEMONT, SC 29712			
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
KATAWIBA ENVIRONMENTAL				B. Transporter 1 Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
Hazz Mat 221 Dalton Drive Charlotte, NC				F. Facility's Phone	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity	14. Unit Wt./Vol.
DUMPS WASH UST SITE SC OPERATIVE MANT, OPERATIVE HOP, HANOVERVILLE, SC ST ID 10628		No. Type			
		1 1m		23	GM
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name		Signature		Date	
Patty Morris		Patty Morris		11 11 21	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name		Signature		Date	
Mike Hands		Mike Hands		11 11 21	

NON-HAZARDOUS WASTE GENERATOR FACILITY



NON-HAZARDOUS MANIFEST

OST SC
KATAWBA

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address: KATAWBA ENVIRONMENTAL, INC. 4278 DYE ROAD EDGEMOOR, SC 29712			Generator's Site Address (if different than mailing):			A. Manifest Number	
4. Generator's Phone 803-327-0469						B. State Generator's ID	
5. Transporter 1 Company Name			6. US EPA ID Number			C. State Transporter's ID	
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone	
9. Designated Facility Name and Site Address RICHLAND COUNTY LANDFILL, INC. 1047 HIGHWAY CHURCH ROAD ELGIN, SC 29045			10. US EPA ID Number			E. State Transporter's ID	
						F. Transporter's Phone	
						G. State Facility ID SC0002218600	
						H. State Facility Phone 803-744-3373	
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity
					No.	Type	14. Unit Wt./Vol.
	a. SOIL IMPACTED WITH VIRGIN DIESEL <i>OK State Hwy Site ID</i> <i>OK State Hwy Site ID</i> WM Profile # VA1052 10628				1	DT	1.13
	b. WM Profile #						
	c. WM Profile #						
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above				K. Disposal Location			
				Cell		Level	
				Grid			
15. Special Handling Instructions and Additional Information COUNTY: CHESTER							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Cal Henderson</i>				Signature "On Behalf of" <i>Cal Henderson</i>		Month	Day
						11	12
						21	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed Name			Signature			Month
							Day
						Year	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name			Signature			Month	
						Day	
						Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
	Printed Name <i>Kenneth Roberts</i>			Signature <i>[Signature]</i>		Month	Day
					11	12	
					21		

APPENDIX E
QAPP CHECKLIST

QAPP Contractor Checklist

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

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



Katawba Environmental, Inc.



November 14, 2021

Mr. Arthur Brown
SCDHEC
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

RECEIVED
DEC 30 2021
UST DIVISION

**RE: AFVR REPORT
SHREEJAKSHANI DBA OKATIE MART
UST PERMIT #10628 CA #64377
6195 S. OKATIE HWY
HARDEEVILLE, SOUTH CAROLINA**

Dear Mr. Brown:

Katawba Environmental, Inc. (Katawba) has prepared this AFVR Report for the above-referenced facility for your review. This event was conducted in response to South Carolina Department of Health and Environmental Control (SCDHEC) correspondence dated September 20, 2021.

It is recommended that multiple AFVR events be conducted at the site as the next appropriate scope of work. Should you have any questions do not hesitate to contact us at (803) 327-0469.

Sincerely,
KATAWBA ENVIRONMENTAL, INC. #18

Alex W. Amos, CEO, PG
Senior Consultant

AFVR Report
Shreejakshani
DBA Okatie Mart
6195 S. Okatie Hwy.
Hardeeville, SC
UST Permit #10628



A handwritten signature in black ink, appearing to read "Alex W. Amos".

Alex W. Amos, CEO, PG
Senior Consultant

1.0 INTRODUCTION

Mr. Shirishi Shah of Okatie Mart (Site ID 10628) has retained Katawba Environmental, Inc. (Katawba) to conduct this AFVR event at the subject site. The site is located at 6194 South Okatie Highway, Hardeeville, South Carolina. A United States Geological Survey map is provided in Appendix A as Figure 1. A comprehensive map of the site is provided as Figure 2. The site currently operates as a convenience store that retails petroleum products.

This AFVR event was implemented in response to SCDHEC correspondence dated September 20, 2021. The scope of work was to perform two 96 hour events on RW-3 and RW-6 / RW-1, RW-4 and RW-5. At the time of the initial site reconnaissance RW-3 contained 4.89 feet of free product and RW-6 contained 1.30 feet of free product. Mr. Alex W. Amos PG, of Katawba, prepared this AFVR Report. The following details the findings during this scope of work:

- The first 96 hour AFVR event was conducted on October 21 to October 25, 2021. Free product was present in wells RW-3 at 4.89 feet and RW-6 at 1.30 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 187 gallons of free product was removed as liquid. 348.24 pounds of carbon was recovered as emissions with 403 pounds of gasoline vapor recovered as emissions. 66.36 gallons of gasoline vapor were recovered as emissions. Approximately 5218 gallons of fuel/water mixture were removed from RW-3 and RW-6.
- The second 96 hour AFVR event was conducted on October 25 to October 29, 2021. Free product was present in wells RW-1, RW-4 and RW-5 at 0.00 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 5 gallons of free product was removed as liquid. 117.98 pounds of carbon was recovered as emissions with 136.54 pounds of gasoline vapor recovered as emissions. 22.48 gallons of gasoline vapor were recovered as emissions. Approximately 7105 gallons of fuel/water mixture were removed from RW-1, RW-4 and RW-5.

2.0 FIRST AFVR EVENT

On October 21, 2021 an AFVR event was conducted by Katawba Environmental, Inc. on wells RW-3 and RW-6. Mr. Billy Morris and Dan Arbegast of Katawba were present during the event. Site conditions were sunny with a temperature of 67 degrees. Prior to the event and after the event groundwater elevations in RW-3 and RW-6 were measured. Free product was present in RW-3 at 4.89 feet and RW-6 at 1.30 feet before the event. After the event free product was present in RW-3 and RW-6 at 0.0 feet. Approximately 187 gallons of product accumulated in the tanker after the AFVR was completed. 348.24 pounds of carbon were recovered as emissions with 403 pounds of gasoline vapor recovered as emissions. 66.36 gallons of gas were recovered as emissions. Approximately 5218 gallons of fuel/water mixture were removed from the AFVR wells and disposed of at TK Tank Services, 425 Boulevard Road, Sumter, SC 29150. Off gas treatments were completed by use of granular carbon filtration of stack effluent during the event.

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-3	RW-6	MW-3R	MW-5RR	MW-14	
8:00D1	0.0 / WL 5.20	0 / WL 2.00	0 / WL 3.51	0 / WL 2.63	0 / WL 0.83	
8:30	17	17	0	0	0	
9:00	17	17	0	0	0	
9:30	17	17	0	0	0	
10:00	17	17	0	0	0	
10:30	17	17	0	0	0	
11:00	17	17	0	0	0	
11:30	17	17	0	0	1	
12:00	17	17	0	0	2	
12:30	17	17	0	0	9	
13:00	17	17	0	0	10	
13:30	17	17	0	0	16	
14:00	17	17	0	0	17	
14:30	17	17	0	0	17	
15:00	17	17	0	0	17	
15:30	17	17	3	0.5	17	
16:00	17	17	3	0.5	17	
16:30	17	17	3	9	17	
17:00	17	17	3	9	17	
18:00	17	17	3	8	17	
19:00	17	17	3	7	17	
20:00	17	17	3	7	17	
21:00	17	17	3	7	17	
22:00	17	17	3	6	17	
23:00	17	17	3	6	17	
24:00	17	17	3	6	17	
8:00 D2	17	17	2	3	1.5	
9:00	17	17	2	4	2	
10:00	17	17	2	5	5	
11:00	17	17	2	6	7	

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-3	RW-6	MW-3R	MW-5RR	MW-14	
12:00 D2	17	17	2	10	7	
13:00	17	17	1	12	7	
14:00	17	17	1	12	7	
15:00	17	17	1	12	7	
16:00	17	17	1	12	5	
17:00	17	17	1	12	5	
18:00	17	17	1	10	5	
19:00	17	17	1	10	6	
20:00	17	17	1	10	7	
21:00	17	17	1	9	7	
22:00	17	17	1	9	7	
23:00	17	17	1	4	7	
24:00	17	17	1	4	7	
8:00 D3	17	17	2	6	8	
9:00	17	17	2	7	9	
10:00	17	17	4	7	9	
11:00	17	17	4	7	10	
12:00	17	17	4	7	12	
13:00	17	17	4	6	11	
14:00	17	17	4	7	11	
15:00	17	17	4	7	11	
16:00	17	17	4	7	11	
17:00	17	17	4	6	11	

Time	RW-3	RW-6	MW-3R	MW-5RR	MW-14	
18:00	17	17	4	2	11	
19:00	17	17	4	2	10	
20:00	17	17	4	2	11	
21:00	17	17	4	3	10	
22:00	17	17	3	2	15	
23:00	17	17	3	3	10	
24:00	17	17	3	3	11	
8:00 D4	17	17	2	5	12	
9:00	17	17	2	5	13	
10:00	17	17	2	11	15	
11:00	17	17	2	13	17	
12:00	17	17	2	13	15	
13:00	17	17	2	13	16	
14:00	17	17	2	15	15	
15:00	17	17	2	15	14	
16:00	17	17	2	14	14	
17:00	17	17	2	10	14	
18:00	17	17	2	10	13	
19:00	17	17	2	10	14	
20:00	17	17	2	10	15	
21:00	17	17	2	10	14	
22:00	17	17	2	10	13	
23:00	17	17	2	10	13	
24:00	17	17	2	10	13	
8:00 D5	0.0 / WL 11.47	0 / WL 8.84	2 / WL 3.47	10 / WL 1.43	14 / WL 4.40	

TABLE 2 DEPTH OF FREE PRODUCT						
Well/Date	RW-3	RW-6		MW-3R	MW-5RR	MW-14
Start 10/21/21	4.89	1.30		1.31	0.00	0.00
Finish 10/25/21	0.00	0.00		1.06	0.00	0.00

OFFGAS / STINGER DEPTH					
Time	OVA	OFF GAS OVA	STINGER DEPTH RW-3	STINGER DEPTH RW-6	
8:00 D1	5000	0	1	1	
8:30	5000	0	1.5	1.5	
9:00	5000	0	2	2	
9:30	5000	0	2.5	2.5	
10:00	5000	0	3	3	
10:30	5000	0	4	4	
11:00	5000	0	5	5	
11:30	5000	0	6	6	
12:00	5000	0	7	7	
12:30	5000	0	8	8	
1:00	5000	0	9	9	
1:30	5000	0	10	10	
2:00	5000	0	10	10	
2:30	5000	0	10	10	
3:00	5000	1	10	10	
3:30	5000	14	10	10	
4:00	5000	54	10	10	
4:30	5000	121	10	10	
5:00	5000	133	10	10	
6:00	5000	137	10	10	
7:00	5000	151	10	10	
8:00	5000	157	10	10	
9:00	5000	162	10	10	
10:00	5000	168	10	10	
11:00	5000	814	10	10	
12:00	5000	876	10	10	
8:00 D2	5000	Carb Change	10	10	
9:00	5000	0	10	10	
10:00	5000	0	10	10	
11:00	5000	0	10	10	
12:00	5000	0	10	10	
1:00	5000	0	10	10	
2:00	5000	0	10	10	
3:00	5000	0	10	10	
4:00	5000	23	10	10	
5:00	5000	26	10	10	
6:00	5000	129	10	10	

Time	OVA	OFF GAS OVA	STINGER DEPTH RW-3	STINGER DEPTH RW-6	
7:00	5000	99	10	10	
8:00	5000	136	10	10	
9:00	5000	142	10	10	
10:00	5000	127	10	10	
11:00	5000	162	10	10	
12:00	5000	179	10	10	
8:00 D3	5000	125	10	10	
9:00	5000	205	10	10	
10:00	5000	238	10	10	
11:00	5000	284	10	10	
12:00	5000	348	10	10	
1:00	5000	687	10	10	
2:00	5000	679	10	10	
3:00	5000	747	10	10	
4:00	5000	748	10	10	
5:00	5000	535	10	10	
6:00	5000	291	10	10	
7:00	5000	239	10	10	
8:00	5000	243	10	10	
9:00	5000	226	10	10	
10:00	5000	204	10	10	
11:00	5000	316	10	10	
12:00	5000	429	10	10	
8:00 D4	5000	Carb add	10	10	
9:00	5000	103	10	10	
10:00	5000	146	10	10	
11:00	5000	172	10	10	
12:00	5000	485	10	10	
1:00	5000	616	10	10	
2:00	5000	935	10	10	
3:00	5000	944	10	10	
4:00	5000	845	10	10	
5:00	5000	325	10	10	
6:00	5000	254	10	10	
7:00	5000	178	10	10	
8:00	5000	163	10	10	
9:00	5000	198	10	10	
10:00	5000	151	10	10	
11:00	5000	153	10	10	
12:00	5000	148	10	10	

2.1 SECOND AFVR EVENT

On October 25, 2021 an AFVR event was conducted by Katawba Environmental, Inc. on wells RW-1, RW-4 and RW-5. Mr. Billy Morris and Dan Arbegast of Katawba were present during the event. Site conditions were sunny with a temperature of 58 degrees. Prior to the event and after the event groundwater elevations in RW-1, RW-4 and RW-5 were measured. Free product was present in RW-1, RW-4 and RW-5 at 0.00 feet before the event. After the event free product was present in RW-1, RW-4 and RW-5 at 0.0 feet. Approximately 5 gallons of product accumulated in the tanker after the AFVR was completed. 117.98 pounds of carbon were recovered as emissions with 136.54 pounds of gasoline vapor recovered as emissions. 22.48 gallons of gas were recovered as emissions. Approximately 7105 gallons of fuel/water mixture were removed from the AFVR wells and disposed of at TK Tank Services, 425 Boulevard Road, Sumter, SC 29150. Off gas treatments were completed by use of granular carbon filtration of stack effluent during the event.

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
8:00D1	0.0 / WL 5.15	0 / WL 6.03	0 / WL 5.60	0 / WL 4.34	0 / WL 6.53	0 / WL 8.97
8:30	17	17	17	0	0	0
9:00	17	17	17	0	0	0
9:30	17	17	17	0	0	0
10:00	17	17	17	0	0	0
10:30	17	17	17	0	0	0
11:00	17	17	17	0	0	0
11:30	17	17	17	0	0	0
12:00	17	17	17	1	0	0
12:30	17	17	17	2	0	0
13:00	17	17	17	3	0	0
13:30	17	17	17	4.5	0	0
14:00	17	17	17	9	0	0
14:30	17	17	17	9	0	0
15:00	17	17	17	12	0	0
15:30	17	17	17	12	0	0
16:00	17	17	17	15	0	1
16:30	17	17	17	15	0	1
17:00	17	17	17	15	0	1
18:00	17	17	17	15	0	1
19:00	17	17	17	15	0	1
20:00	17	17	17	15	0	1
21:00	17	17	17	15	0	1
22:00	17	17	17	15	0	1
23:00	17	17	17	15	0	1
24:00	17	17	17	15	0	1
8:00 D2	17	17	17	15	0	1
9:00	17	17	17	15	0	1
10:00	17	17	17	15	0	1
11:00	17	17	17	15	0	1

TABLE 1 RADIUS OF INFLUENCE GAUGE READINGS

Time	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
12:00 D2	17	17	17	10	0	1
13:00	17	17	17	11	0	1
14:00	17	17	17	12	0	1
15:00	17	17	17	10	0	1
16:00	17	17	17	14	0	1
17:00	17	17	17	15	0	1
18:00	17	17	17	15	0	1
19:00	17	17	17	15	0	1
20:00	17	17	17	15	0	1
21:00	17	17	17	15	0	1
22:00	17	17	17	15	0	1
23:00	17	17	17	15	0	1
24:00	17	17	17	15	0	1
8:00 D3	17	17	17	12	0	0
9:00	17	17	17	11	0	0
10:00	17	17	17	8	0	0
11:00	17	17	17	10	0	0
12:00	17	17	17	10	1.5	1
13:00	19	19	19	15	1.5	1
14:00	20	20	20	15	1.5	1.5
15:00	20	20	20	15	2	1.5
16:00	20	20	20	15	2	1.5
17:00	18	18	18	15	2	1

Time	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
18:00	17	17	17	15	2	1
19:00	17	17	17	15	1	1
20:00	17	17	17	15	1	1
21:00	17	17	17	15	1	1
22:00	17	17	17	15	1	1.5
23:00	17	17	17	15	1	1.5
24:00	17	17	17	15	1	2
8:00 D4	18	18	18	15	2	1.5
9:00	18	18	18	15	2	1.5
10:00	18	18	18	13	2	1
11:00	19	19	19	13	2	1
12:00	18	18	18	14	2	1
13:00	19	19	19	15	1.5	1
14:00	19	19	19	16	1.5	1
15:00	19	19	19	14	1.5	1
16:00	18	18	18	14	1	1
17:00	18	18	18	13	1	1
18:00	18	18	18	13	1	1
19:00	18	18	18	14	1	1
20:00	18	18	18	15	1	1
21:00	18	18	18	15	1	1
22:00	18	18	18	15	1	1
23:00	18	18	18	15	1	1
24:00	18	18	18	15	1	1
8:00 D5	18 / WL 8.53	18 / WL 5.63	18 / WL 5.83	15 / WL 5.18	1 / WL 7.00	1 / WL 8.84

TABLE 2 DEPTH OF FREE PRODUCT

Well/Date	RW-1	RW-4	RW-5	MW-7RR	MW-16	MW-20
Start 10/25/21	0.00	0.00	0.00	0.01	0.00	0.00
Finish 10/29/21	0.00	0.00	0.00	0.00	0.00	0.00

OFFGAS / STINGER DEPTH

Time	OVA	OFF GAS OVA	STINGER DEPTH RW-1	STINGER DEPTH RW-4	STINGER DEPTH RW-5
8:00 D1	94	0	5	5	5
8:30	116	0	5.5	5.5	5.5
9:00	116	0	6	6	6
9:30	142	0	6.5	6.5	6.5
10:00	137	0	7	7	7
10:30	244	0	7.5	7.5	7.5
11:00	309	0	8	8	8
11:30	396	0	8.5	8.5	8.5
12:00	185	0	9	9	9
12:30	114	0	9.5	9.5	9.5
1:00	121	0	10	10	10
1:30	142	0	10	10	10
2:00	208	0	10	10	10
2:30	179	0	10	10	10
3:00	185	0	10	10	10
3:30	982	0	10	10	10
4:00	1074	0	10	10	10
4:30	944	0	10	10	10
5:00	932	0	10	10	10
6:00	2059	0	10	10	10
7:00	4727	0	10	10	10
8:00	5000	0	10	10	10
9:00	2530	0	10	10	10
10:00	2174	0	10	10	10
11:00	1376	0	10	10	10
12:00	1107	0	10	10	10
8:00 D2	495	0	10	10	10
9:00	621	1	10	10	10
10:00	497	1	10	10	10
11:00	1027	0	10	10	10
12:00	1229	0	10	10	10
1:00	1974	0	10	10	10
2:00	1756	0	10	10	10
3:00	1760	0	10	10	10
4:00	1623	0	10	10	10
5:00	1699	0	10	10	10
6:00	1520	0	10	10	10

Time	OVA	OFF GAS OVA	STINGER DEPTH RW-1	STINGER DEPTH RW-4	STINGER DEPTH RW-5
7:00	1521	0	10	10	10
8:00	1538	0	10	10	10
9:00	1617	0	10	10	10
10:00	1594	0	10	10	10
11:00	1583	0	10	10	10
12:00	1542	0	10	10	10
8:00 D3	1058	0	10	10	10
9:00	1025	0	10	10	10
10:00	2368	1	10	10	10
11:00	5000	1	10	10	10
12:00	5000	4	10	10	10
1:00	5000	6	10	10	10
2:00	2570	8	10	10	10
3:00	2857	21	10	10	10
4:00	2179	23	10	10	10
5:00	2430	27	10	10	10
6:00	2597	29	10	10	10
7:00	2890	35	10	10	10
8:00	2373	38	10	10	10
9:00	2381	30	10	10	10
10:00	2376	59	10	10	10
11:00	2389	68	10	10	10
12:00	2384	73	10	10	10
8:00 D4	1056	Carb Change	10	10	10
9:00	1123	0	10	10	10
10:00	1149	0	10	10	10
11:00	1366	0	10	10	10
12:00	1328	0	10	10	10
1:00	1313	0	10	10	10
2:00	1419	0	10	10	10
3:00	1495	0	10	10	10
4:00	1574	0	10	10	10
5:00	1497	0	10	10	10
6:00	1416	0	10	10	10
7:00	1425	0	10	10	10
8:00	1398	0	10	10	10
9:00	1486	0	10	10	10
10:00	1421	0	10	10	10
11:00	1425	0	10	10	10
12:00	1437	0	10	10	10

3.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this AFVR event was to evacuate petroleum impacted groundwater from the area of highest concentration and dispose of the material at a regulated facility. The following conclusions are based upon data obtained during this AFVR event:

- The first 96 hour AFVR event was conducted on October 21 to October 25, 2021. Free product was present in wells RW-3 at 4.89 feet and RW-6 at 1.30 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 187 gallons of free product was removed as liquid. 348.24 pounds of carbon was recovered as emissions with 403 pounds of gasoline vapor recovered as emissions. 66.36 gallons of gasoline vapor were recovered as emissions. Approximately 5218 gallons of fuel/water mixture were removed from RW-3 and RW-6.
- The second 96 hour AFVR event was conducted on October 25 to October 29, 2021. Free product was present in wells RW-1, RW-4 and RW-5 at 0.00 feet prior to the event. After the event free product was not present in the AFVR wells. Approximately 5 gallons of free product was removed as liquid. 117.98 pounds of carbon was recovered as emissions with 136.54 pounds of gasoline vapor recovered as emissions. 22.48 gallons of gasoline vapor were recovered as emissions. Approximately 7105 gallons of fuel/water mixture were removed from RW-1, RW-4 and RW-5.

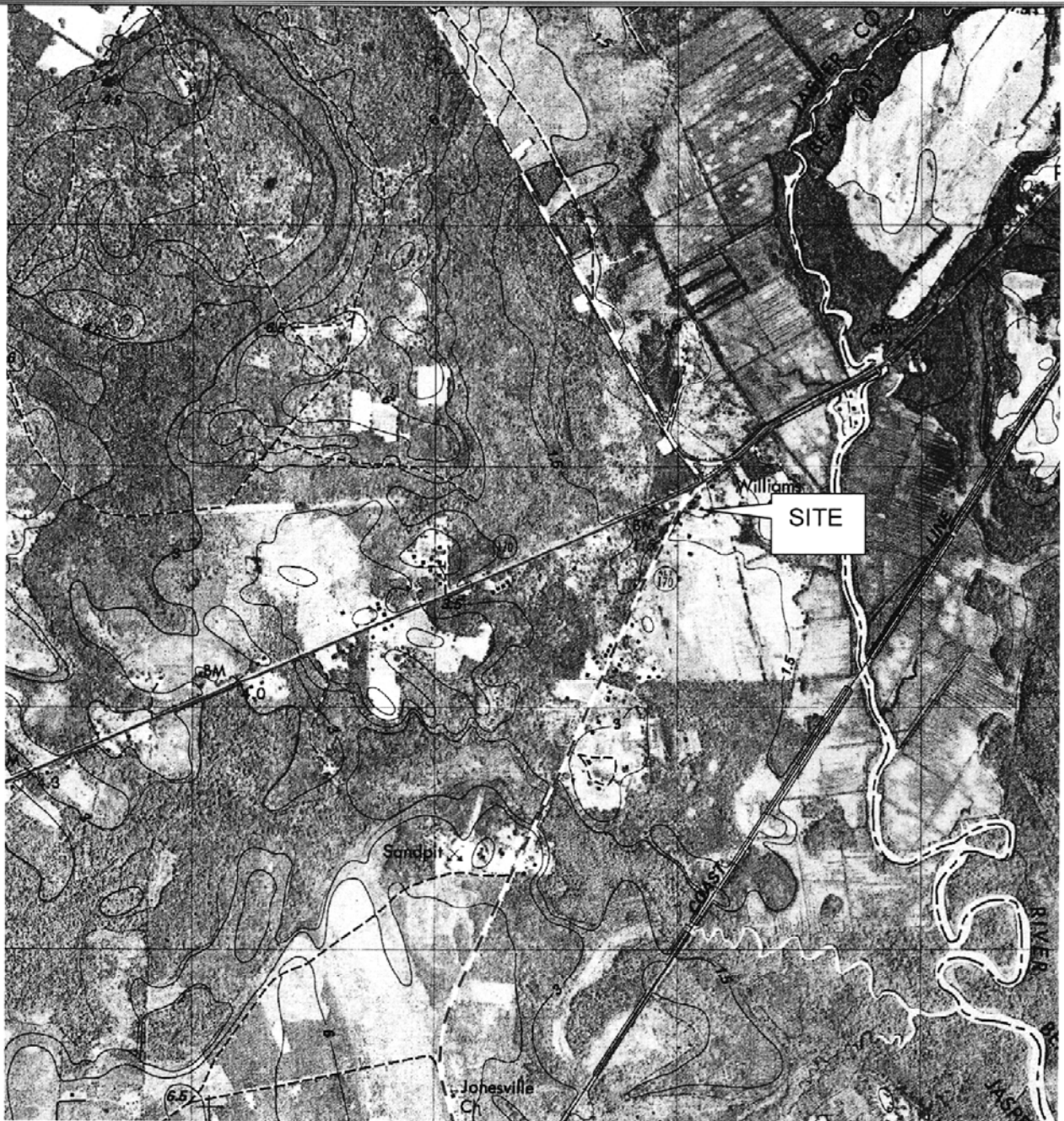
AFVR	Carbon recovered	Gas vapor recovered	Gas gallon recovered emissions	Total gallons of liquid removed	Free product gallons
Date 10/25/21	348.24	403	66.36	5218	187
Date 10/29/21	117.98	136.54	22.48	7105	5
Total	466.22	539.54	88.84	12323	192

It is recommended that additional AFVR events be conducted at the site to reduce petroleum hydrocarbon concentrations in the aquifer.

4.0 REFERENCES

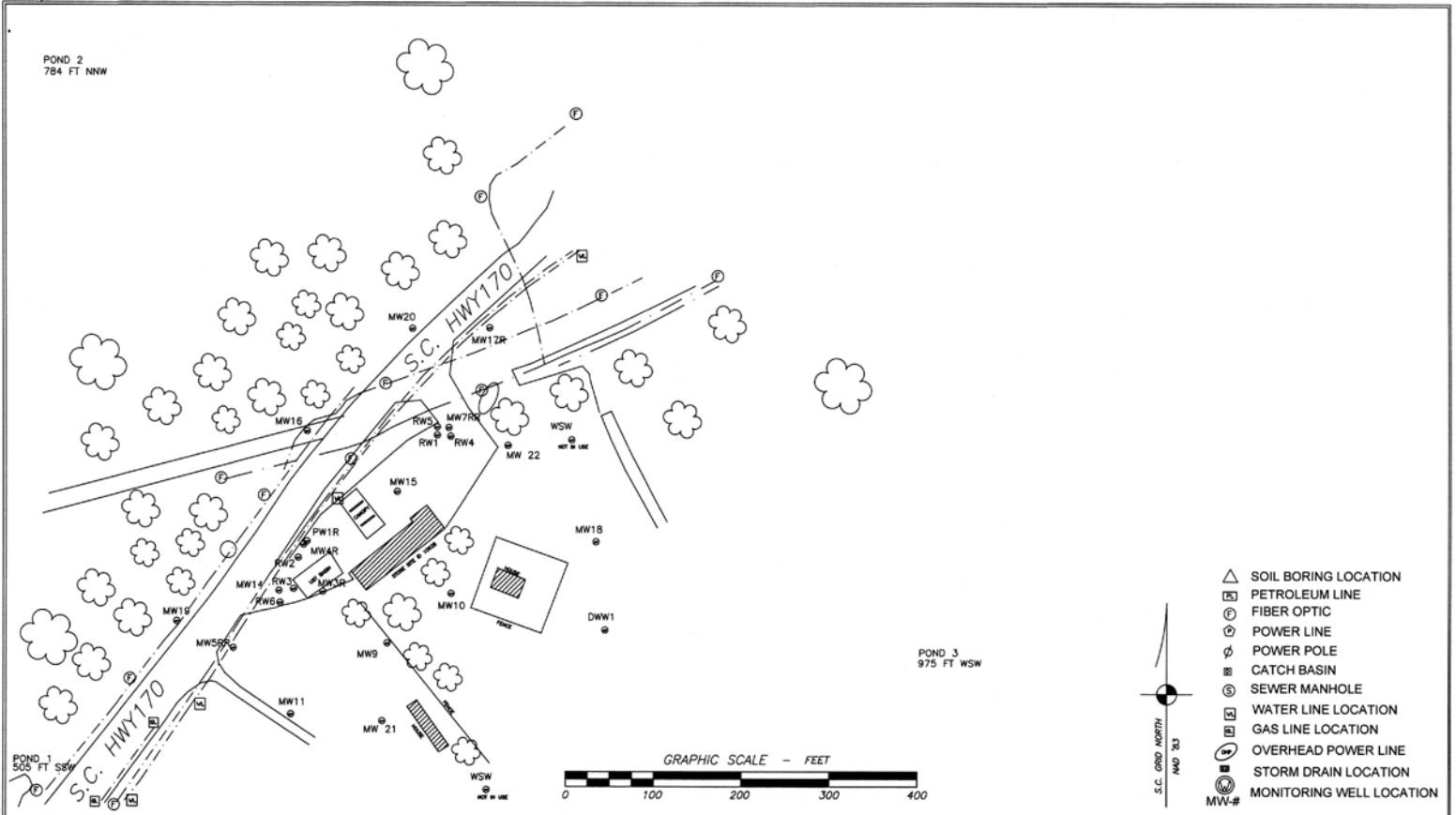
Brown, Arthur. SCDHEC Letter to Amos September 20, 2021

APPENDIX A
FIGURES



KATAWBA ENVIRONMENTAL, INC.
4278 DYE ROAD
EDGEMOOR SC 29712
(803) 327-0469 UCC#18

AFVR REPORT
SITE ID 10628
OKATIE MART
6195 S OKATIE HWY, HARDEEVILLE, SC
FIGURE 1 – SITE LOCATION MAP



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDGEWOOD, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 2
 SITE MAP

APPENDIX B
AFVR DATA

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
 2. Page 1 of
 3. Emergency Response Phone
 4. Waste Tracking Number

5. Generator's Name and Mailing Address
 50 S OKATIE HWY
 HARDEVILLE, SC 29927
 Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
 T K TANK SERVICES, INC.
 U.S. EPA ID Number

7. Transporter 2 Company Name
 U.S. EPA ID Number

8. Designated Facility Name and Site Address
 T K TANK SERVICES INC.
 425 BOULEVARD RD.
 SUMTER, SC
 U.S. EPA ID Number
 Facility's Phone: 803-418-5314

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1.		VAC		
2. NONHAZARDOUS PETROLEUM CONTAMINATED WATER/PRODUCT	1	Truck	3769	gal
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name
 Daniel Abbott
 Signature
 [Signature]
 Month Day Year
 10 25 21

15. International Shipments
 Import to U.S.
 Export from U.S.
 Port of entry/exit:
 Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name
 Willie Fortune
 Signature
 Willie Fortune
 Month Day Year
 10 25 21
 Transporter 2 Printed/Typed Name
 Signature

17. Discrepancy
 17a. Discrepancy Indication Space
 Quantity
 Type
 Residue
 Partial Rejection
 Full Rejection

17b. Alternate Facility (or Generator)
 Manifest Reference Number:
 U.S. EPA ID Number

17c. Signature of Alternate Facility (or Generator)
 Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
 Printed/Typed Name
 Jasmine Anderson
 Signature
 [Signature]
 Month Day Year
 10 25 21

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

3,769 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY

11/25/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

No. 1067

CUSTOMER TR TANK

ADDRESS _____

DRIVER _____ ON
Signature OFF

WEIGH MASTER: _____

01:23 AM 10/25/2021

16020 lb @Scale 1)
47900 lb @Scale 2)
00 lb @Scale 3)
63920 lb @ (Total)

Empty WT 32,480



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

803-229-2528

102621

5. Generator's Name and Mailing Address
50 S OKATIE HWY
HARDEVILLE, SC 29927

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name T K TANK SERVICES, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
T K TANK SERVICES INC.
425 BOULEVARD RD.
SUMTER, SC

U.S. EPA ID Number

803-418-5314

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1.

No.

Type

NONHAZARDOUS PETROLEUM CONTAMINATED WATER/PRODUCT

1

TI

329

gal

2.

3.

4.

13. Special Handling Instructions and Additional Information

call for volume/serial (Daniel)
717-961-0186

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Daniel Arbogast

Signature

[Signature]

Month Day Year
10 26 21

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Daren Griffin

Signature

[Signature]

Month Day Year
10 26 21

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name

Jasmine Anderson

Signature

[Signature]

Month Day Year
10 26 21

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

3129 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY HARDEVILLE SC 29927

10/26/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

No. 1071

TRUCK 20

CUSTOMER TK TANK

ADDRESS _____

DRIVER _____ ON
Signature OFF

WEIGH MASTER: _____

12:48 AM 10/26/2021

10560 lb G(Scale 1)
24140 lb G(Scale 2)
25300 lb G(Scale 3)
60000 lb G (Total)

Empty wt 33,900



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

50 S OKATIE HWY
HARDEVILLE, SC 29927

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

T K TANK SERVICES, INC.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

T K TANK SERVICES INC.
425 BOULEVARD RD.
SUMTER, SC

U.S. EPA ID Number

803-418-5314

Facility's Phone:

9. Waste Shipping Name and Description

1. NONHAZARDOUS PETROLEUM CONTAMINATED WATER/PRODUCT

10. Containers

No.

Type

11. Total Quantity

12. Unit WL/Vol.

1-1

3839

13. Special Handling Instructions and Additional Information

call for gallons (717) 961-0186

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Daniel H. Arbores

Signature

[Signature]

Month Day Year

11 01 21

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Willie Fortune

Signature

[Signature]

Month Day Year

11 1 21

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Jasmine Anderson

Signature

[Signature]

Month Day Year

11 1 21

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

3837 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY HARDEVILLE SC 29927

11/1/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

No. 1087

CUSTOMER TK TANKS
ADDRESS _____

DRIVER _____ Signature _____ ON
OFF

WEIGH MASTER: _____

12471 87 11/01/2021

18190 lb G(Scale 1)
40350 lb G(Scale 2)
80 lb G(Scale 3)
64480 lb G (Total)



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

50 S OKATIE HWY
HARDEVILLE, SC 29927

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

T K TANK SERVICES, INC.

U.S. EPA ID Number

SCR000778274

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

T K TANK SERVICES INC.
425 BOULEVARD RD.
SUMTER, SC

U.S. EPA ID Number

4327958002

Facility's Phone:

803-418-5314

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1.

No.

Type

2.

NON HAZARDOUS PETROLEUM CONTAMINATED WATER

T-1 Tank

LAC

1587

gal

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Willie Fortune

Signature

Transporter 2 Printed/Typed Name

Willie Fortune

Signature

Month Day Year

11 13 91

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

17b. Alternate Facility (or Generator)

Manifest Reference Number:

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Jasmine Anderson

Signature

Jasmine Anderson

Month Day Year

11 13 91

CERTIFICATE OF DISPOSAL

T K TANK SERVICES, INC.

Certifies to all that

1,587 GALLONS

Of Nonhazardous, Petroleum Contaminated Water / Product
has been disposed of in accordance with EPA regulations on petroleum contaminated water.

This product was generated at:

50 S OKATIE HWY

11/3/2021

DATE

MATT CHAPMAN

SIGNATURE

**HODGE AUTO/TRUCK
SERVICE CENTER, INC.**

No. 1091

493 E. Liberty Street
Sumter, South Carolina 29150
(803) 778-1200

CUSTOMER TK TANK

ADDRESS _____

DRIVER _____ ON
Signature OFF

WEIGH MASTER: _____

11:42 PM 11/02/2021

14340 lb G(Scale 1)
31380 lb G(Scale 2)
00 lb G(Scale 3)
45720 lb G (Total)



AFVR Field Emissions Data

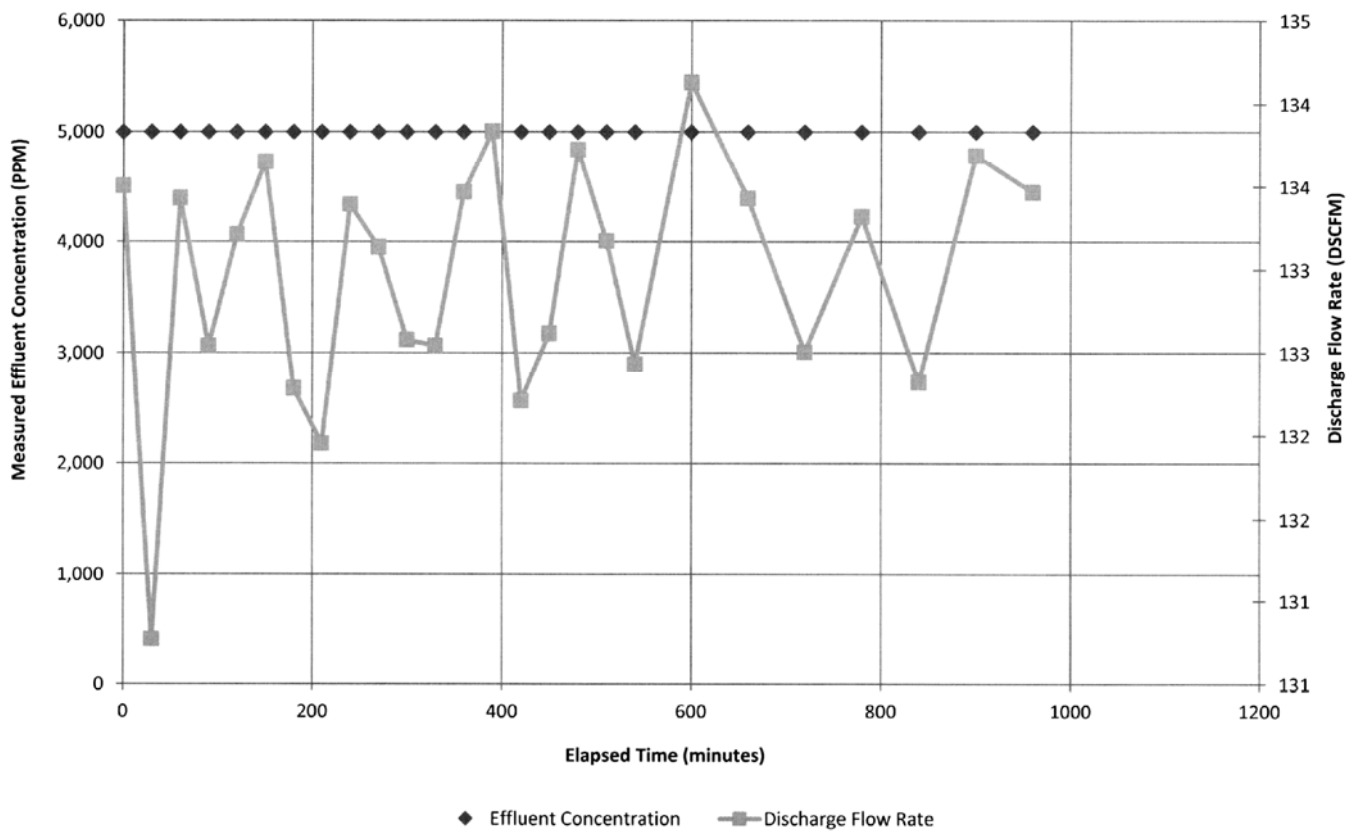
Date:		10/21/2021		Average Depth to Ground Water		3		Clay									
Site Name:		Chalie Mart		Vacuum Contractor		Soil Type		Katawba									
SCDHEC Site ID #:		10528		Vacuum Truck Specification (CFM @ mm Hg)		250@28		250@28									
Well ID #:		RWG / RW6		PPMmeasured		K		Elapsed Flow									
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel.Humid (%)	PPMmeasured (ppm)	Elapsed (min)	Flow (DSCFM)	PPM	PPMc	Ccm (mg/dsm3)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)	
10/21/2021	8:00	17	3,614	3	180.0	99.0	5,000	4	0	133.50	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	8:30	17	3,540	3	180.0	99.0	5,000	4	30	130.77	5480.7	21922.7	10938.6	6.83E-04	5.36	6.20	1.02
10/21/2021	9:00	17	3,612	3	180.0	99.0	5,000	4	60	133.43	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	9:30	17	3,588	3	180.0	99.0	5,000	4	90	132.54	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.03
10/21/2021	10:00	17	3,606	3	180.0	99.0	5,000	4	120	133.21	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/21/2021	10:30	17	3,618	3	180.0	99.0	5,000	4	150	133.65	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/21/2021	11:00	17	3,581	3	180.0	99.0	5,000	4	180	132.29	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/21/2021	11:30	17	3,572	3	180.0	99.0	5,000	4	210	131.95	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/21/2021	12:00	17	3,611	3	181.0	99.0	5,000	4	240	133.39	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	12:30	17	3,604	3	180.0	99.0	5,000	4	270	133.14	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/21/2021	13:00	17	3,589	3	180.0	83.0	5,000	4	300	132.58	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/21/2021	13:30	17	3,588	3	181.0	60.0	5,000	4	330	132.54	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.03
10/21/2021	14:00	17	3,613	3	180.0	61.0	5,000	4	360	133.47	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	14:30	17	3,623	3	180.0	62.0	5,000	4	390	133.84	5480.7	21922.7	10938.6	6.83E-04	5.48	6.35	1.05
10/21/2021	15:00	17	3,579	3	180.0	61.0	5,000	4	420	132.21	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/21/2021	15:30	17	3,590	3	180.0	64.0	5,000	4	450	132.62	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/21/2021	16:00	17	3,620	3	180.0	62.0	5,000	4	480	133.73	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/21/2021	16:30	17	3,605	3	180.0	59.0	5,000	4	510	133.17	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/21/2021	17:00	17	3,585	3	180.0	58.0	5,000	4	540	132.43	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/21/2021	18:00	17	3,631	3	180.0	58.0	5,000	4	600	134.13	5480.7	21922.7	10938.6	6.83E-04	5.50	6.36	1.05
10/21/2021	19:00	17	3,612	3	180.0	58.0	5,000	4	660	133.43	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/21/2021	20:00	17	3,587	3	180.0	58.0	5,000	4	720	132.51	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/21/2021	21:00	17	3,609	3	180.0	56.0	5,000	4	780	133.32	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/21/2021	22:00	17	3,582	3	180.0	57.0	5,000	4	840	132.32	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27	1.03
10/21/2021	23:00	17	3,619	3	180.0	56.0	5,000	4	900	133.69	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/21/2021	0:00	17	3,613	3	180.0	56.0	5,000	4	960	133.47	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
Average		17	3,600	3	180	57	5,000	4		132.97	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04

Dws: 0.087702229
Bws: 0.05

Total Pounds of Carbon Recovered as Emissions: 87.18
Total Pounds of Gasoline Vapor Recovered as Emissions: 100.89
Total Gallons of Gasoline Recovered as Emissions: 16.61
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) (1-Bws) (velocity) (Pipe ID sq ft) [(528 ft / (Temp + 460)) (Listed As Flow Above)]
Bwa = (B_{wa} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + (B_{wa} / 18 lb-mole H₂O)]
PPMw = (PPMw) / (1-Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-ft³) PMRg = (PMRc) (Mg/Mcg)
Bg = below top of casing
Bwa = (B_{wa} / 18 lb-mole H₂O) / [(1/28.84 lb-mole dry air) + (B_{wa} / 18 lb-mole H₂O)]
Qstd = (60 sec/min) (1-Bws) (V) (A) (Temp deg Rankin)
Bg = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bws = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMw = PPM measured (wet Conc.)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/m³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dm³/m³ mg-mole, mass to volume conversion factor at STP
Cc = 10/528 ft, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 69 mg/mg-mole, weight of carbon in gasoline molecule
PPMw = 'dry' concentration
Mg = 153 mg/mg-mole, molecular wt. of gasoline
Qstd = Flow at DSCFM
Ccm = PPMc (Mol/K_v)
PMRc = Cc (Qstd) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

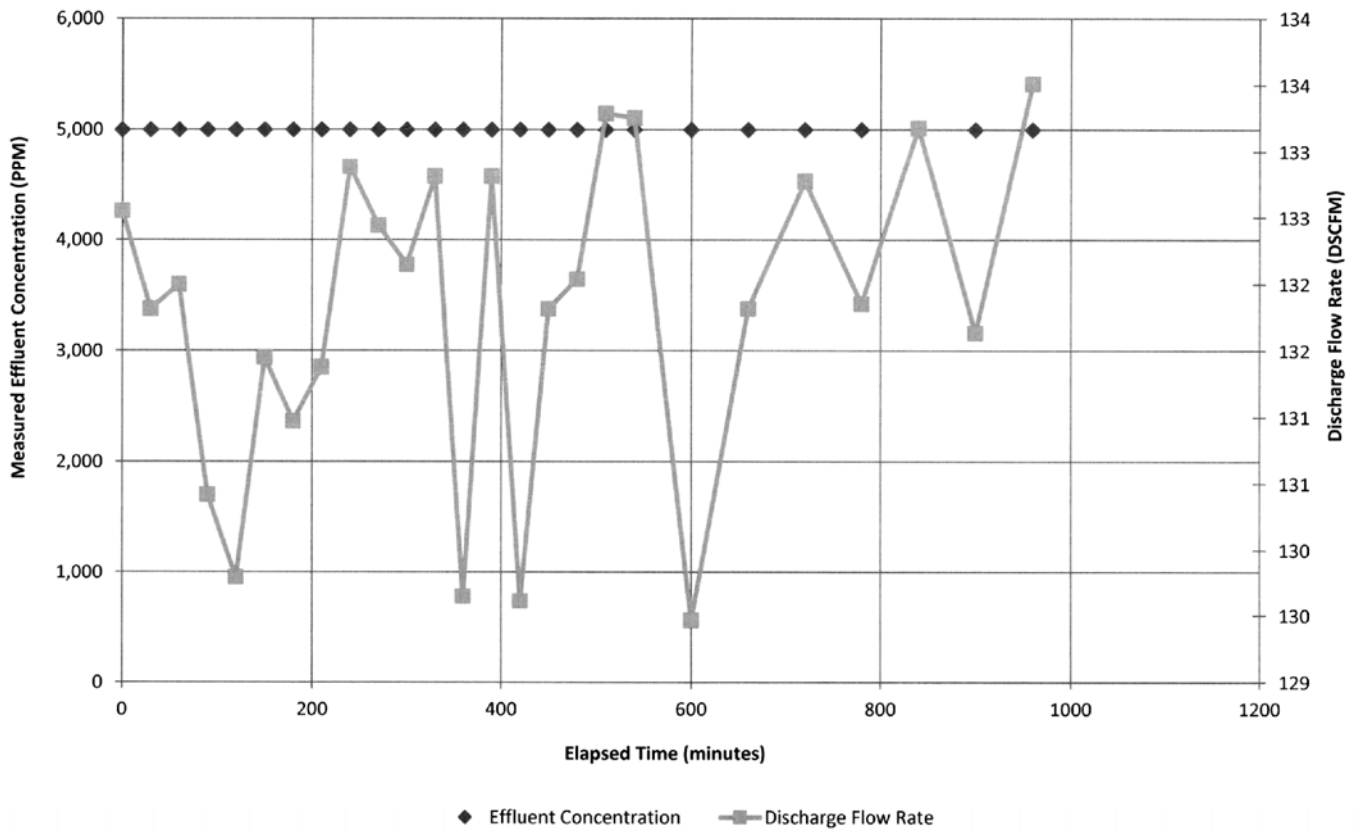
Date: 10/22/2021		Average Depth to Ground Water		Soil Type		City											
Site Name: Okabe Mart		3		City		Katawba											
SCDHEC Site ID #: 10625		Vacuum Contractor		250822		250822											
Well ID #		Vacuum Truck Specification (CFM @ 1mm Hg)		PPM		PPMc											
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel.Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	(DSCFM)	PPMd	PPMc	Ccm (mg/dsm3)	Cc (lb/dscft)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/22/2021	8:00	17	3,604	3	178.0	99.0	5,000	4	0	132.55	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29	1.04
10/22/2021	8:30	17	3,594	3	178.0	99.0	5,000	4	30	131.62	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	9:00	17	3,599	3	178.0	99.0	5,000	4	60	132.00	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/22/2021	9:30	17	3,546	3	178.0	99.0	5,000	4	90	130.42	5480.7	21922.7	10938.6	6.83E-04	5.34	6.18	1.02
10/22/2021	10:00	17	3,529	3	178.0	99.0	5,000	4	120	129.80	5480.7	21922.7	10938.6	6.83E-04	5.32	6.15	1.01
10/22/2021	10:30	17	3,574	3	178.0	99.0	5,000	4	150	131.45	5480.7	21922.7	10938.6	6.83E-04	5.39	6.23	1.03
10/22/2021	11:00	17	3,561	3	180.0	99.0	5,000	4	180	130.97	5480.7	21922.7	10938.6	6.83E-04	5.37	6.21	1.02
10/22/2021	11:30	17	3,572	3	185.0	99.0	5,000	4	210	131.38	5480.7	21922.7	10938.6	6.83E-04	5.38	6.23	1.03
10/22/2021	12:00	17	3,613	3	186.0	99.0	5,000	4	240	132.89	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	12:30	17	3,601	3	188.0	99.0	5,000	4	270	132.44	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03
10/22/2021	13:00	17	3,593	3	188.0	99.0	5,000	4	300	132.15	5480.7	21922.7	10938.6	6.83E-04	5.41	6.27	1.03
10/22/2021	13:30	17	3,611	3	188.0	99.0	5,000	4	330	132.81	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	14:00	17	3,525	3	188.0	99.0	5,000	4	360	129.65	5480.7	21922.7	10938.6	6.83E-04	5.31	6.15	1.01
10/22/2021	14:30	17	3,611	3	190.0	99.0	5,000	4	390	132.81	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	15:00	17	3,524	3	190.0	99.0	5,000	4	420	129.61	5480.7	21922.7	10938.6	6.83E-04	5.31	6.15	1.01
10/22/2021	15:30	17	3,584	3	190.0	99.0	5,000	4	450	131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	16:00	17	3,590	3	190.0	99.0	5,000	4	480	132.04	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/22/2021	16:30	17	3,624	3	190.0	99.0	5,000	4	510	133.29	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/22/2021	17:00	17	3,623	3	190.0	99.0	5,000	4	540	133.25	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/22/2021	18:00	17	3,520	3	184.0	99.0	5,000	4	600	129.46	5480.7	21922.7	10938.6	6.83E-04	5.30	6.14	1.01
10/22/2021	19:00	17	3,584	3	180.0	99.0	5,000	4	660	131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	20:00	17	3,610	3	178.0	99.0	5,000	4	720	132.77	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/22/2021	21:00	17	3,585	3	175.0	99.0	5,000	4	780	131.85	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/22/2021	22:00	17	3,621	3	175.0	99.0	5,000	4	840	133.18	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/22/2021	23:00	17	3,579	3	175.0	99.0	5,000	4	900	131.63	5480.7	21922.7	10938.6	6.83E-04	5.39	6.24	1.03
10/22/2021	0:00	17	3,630	3	175.0	99.0	5,000	4	960	133.51	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
Average		17	3,564	3	183	99.0	5,000	4		131.82	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03

Bws: 0.087702226
Bwsr: 0.06

Total Pounds of Carbon Recovered as Emissions: 86.42
Total Pounds of Gasoline Vapor Recovered as Emissions: 100.01
Total Gallons of Gasoline Recovered as Emissions: 16.47
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstf = (60 sec/min) (1-Bws) (velocity) (Pipe ID sq ft) (528 ft / 1 mile) (Temp. + 460) (Listed As Flow Above)
Bws = (Bwsu / 16 lb-mole H2O) / (1/26.84 lb-mole dry air) + Bwsu / 16 lb-mole H2O
PPMd = (PPMw) / (1-Bws)
PPMc = (PPMc) (K)
Cc = Ccm (62.43 E-9 lb-m3/mg-m3)
PMRg = (PMRc) (Mg/Mcg)
Bgs = below top of casing
Bwsu = (Bwsu / 16 lb-mole H2O) / (1/26.84 lb-mole dry air) + Bwsu / 16 lb-mole H2O
Qstf = (60 sec/min) (1-Bws) (V) (A) (Temp. deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsr = pounds of water per pound of dry air, derived from the psychrometric chart (temp V/s relative hum)
PPMw = PPM measured (wet Conc.)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm3, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kc = 24.07 dm3/dm3 mg-mole, mass to volume conversion factor at stp
Cc = lb/dscft, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMw = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstf = Flow at DSCFM
Ccm = PPMc (M/Kc)
PMRc = Cc (Qstf) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

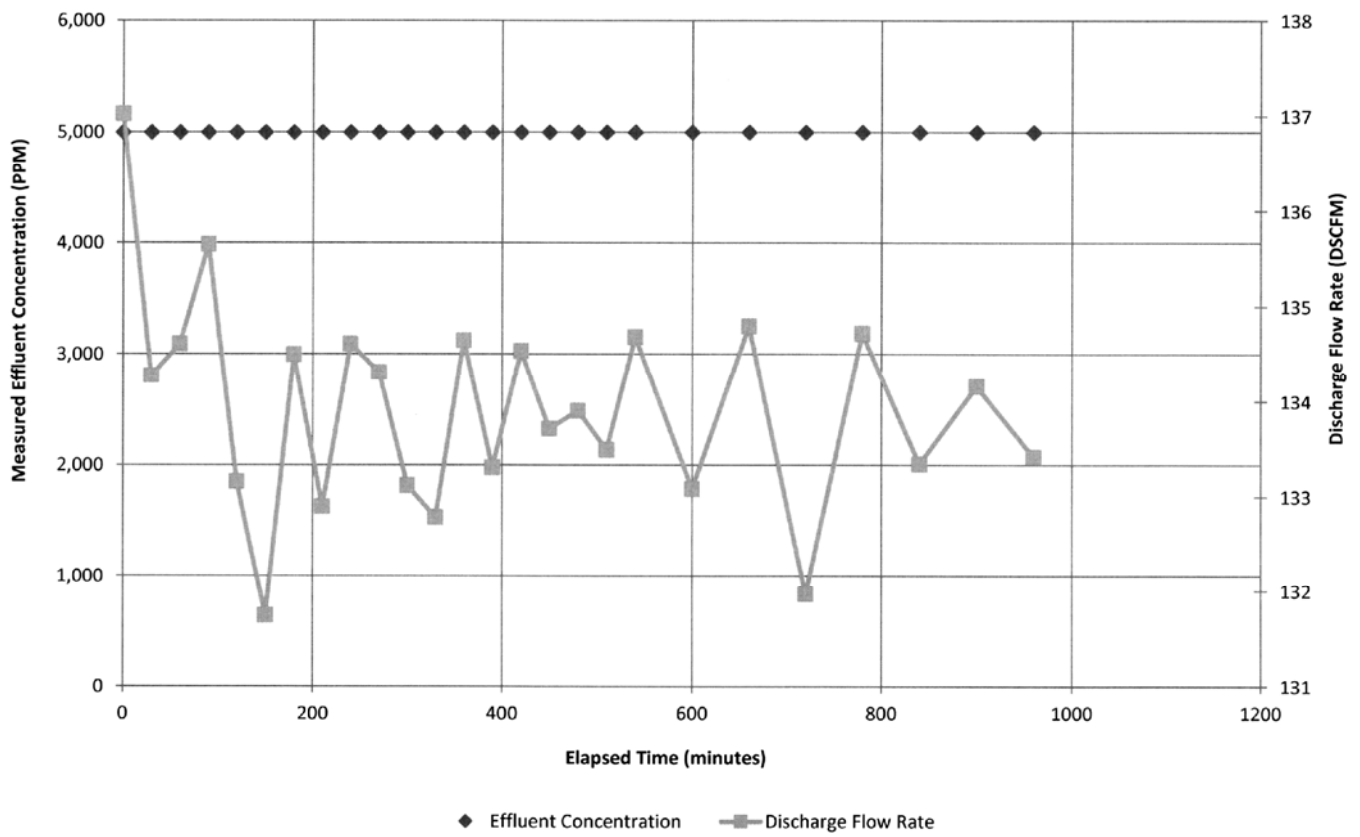
Date:		10/23/2021		Average Depth to Ground Water		3		Soil Type		3		Clay		Kalamazoo		250622	
Site Name:		Okatie Mart		Vacuum Contractor		Elapsed Flow		PPM		Ccm		PMRc		PMRg		PMRg	
SCDHEC Site ID #:		10928		Vacuum Truck Specification (CFM @ mm Hg)		(min)		(DSCFM)		(mg/dsm3)		(lb/dscf)		(lb/hr)		(gal/hr)	
Well ID #:		RWS / RW6		PPMmeasured		K		PPM		Ccm		PMRc		PMRg		PMRg	
Date	Time	Vacuum (in Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel.Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	PPM	PPMc	Ccm (mg/dsm3)	PMRc (lb/dscf)	PMRg (lb/hr)	PMRg (gal/hr)	PMRg	PMRg
10/23/2021	8:00	17	3,687	3	170.0	99.0	5,000	4	0	137.02	5480.7	21922.7	10938.6	6.83E-04	5.61	6.50	1.07
10/23/2021	8:30	17	3,613	3	170.0	99.0	5,000	4	30	134.27	5480.7	21922.7	10938.6	6.83E-04	5.50	6.37	1.05
10/23/2021	9:00	17	3,622	3	170.0	99.0	5,000	4	60	134.61	5480.7	21922.7	10938.6	6.83E-04	5.52	6.38	1.05
10/23/2021	9:30	17	3,650	3	170.0	99.0	5,000	4	90	135.65	5480.7	21922.7	10938.6	6.83E-04	5.56	6.43	1.06
10/23/2021	10:00	17	3,583	3	170.0	99.0	5,000	4	120	133.15	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31	1.04
10/23/2021	10:30	17	3,545	3	170.0	99.0	5,000	4	150	131.75	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25	1.03
10/23/2021	11:00	17	3,619	3	175.0	99.0	5,000	4	180	134.50	5480.7	21922.7	10938.6	6.83E-04	5.51	6.38	1.05
10/23/2021	11:30	17	3,576	3	175.0	95.0	5,000	4	210	132.90	5480.7	21922.7	10938.6	6.83E-04	5.45	6.30	1.04
10/23/2021	12:00	17	3,622	3	175.0	90.0	5,000	4	240	134.61	5480.7	21922.7	10938.6	6.83E-04	5.52	6.38	1.05
10/23/2021	12:30	17	3,614	3	178.0	86.0	5,000	4	270	134.31	5480.7	21922.7	10938.6	6.83E-04	5.50	6.37	1.05
10/23/2021	13:00	17	3,582	3	178.0	84.0	5,000	4	300	133.12	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/23/2021	13:30	17	3,573	3	180.0	80.0	5,000	4	330	132.79	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30	1.04
10/23/2021	14:00	17	3,623	3	180.0	78.0	6,000	4	360	134.65	5480.7	21922.7	10938.6	6.83E-04	5.52	6.36	1.05
10/23/2021	14:30	17	3,587	3	180.0	73.0	5,000	4	390	133.31	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/23/2021	15:00	17	3,620	3	182.0	59.0	5,000	4	420	134.53	5480.7	21922.7	10938.6	6.83E-04	5.51	6.38	1.05
10/23/2021	15:30	17	3,598	3	186.0	54.0	5,000	4	450	133.72	5480.7	21922.7	10938.6	6.83E-04	5.48	6.34	1.04
10/23/2021	16:00	17	3,603	3	186.0	56.0	5,000	4	480	133.90	5480.7	21922.7	10938.6	6.83E-04	5.49	6.35	1.05
10/23/2021	16:30	17	3,592	3	185.0	57.0	5,000	4	510	133.49	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
10/23/2021	17:00	17	3,624	3	180.0	56.0	5,000	4	540	134.68	5480.7	21922.7	10938.6	6.83E-04	5.52	6.39	1.05
10/23/2021	18:00	17	3,581	3	180.0	58.0	5,000	4	600	133.09	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31	1.04
10/23/2021	19:00	17	3,627	3	178.0	57.0	5,000	4	660	134.79	5480.7	21922.7	10938.6	6.83E-04	5.52	6.39	1.05
10/23/2021	20:00	17	3,551	3	175.0	57.0	5,000	4	720	131.97	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26	1.03
10/23/2021	21:00	17	3,625	3	175.0	61.0	5,000	4	780	134.72	5480.7	21922.7	10938.6	6.83E-04	5.52	6.39	1.05
10/23/2021	22:00	17	3,588	3	170.0	62.0	5,000	4	840	133.35	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32	1.04
10/23/2021	23:00	17	3,610	3	170.0	61.0	5,000	4	900	134.16	5480.7	21922.7	10938.6	6.83E-04	5.50	6.36	1.05
10/23/2021	0:00	17	3,590	3	170.0	62.0	5,000	4	960	133.42	5480.7	21922.7	10938.6	6.83E-04	5.47	6.33	1.04
Average		17	3,604	3	176	57	5,000	4	133.94	5480.7	21922.7	10938.6	6.83E-04	5.49	6.35	1.05	

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 87.91
Total Pounds of Gasoline Vapor Recovered as Emissions: 101.52
Total Gallons of Gasoline Recovered as Emissions: 16.73
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qsd = (60 sec/min) (1-Bws) (velocity) (Pipe ID sq ft) [(528 ft/mi) / (Temp. + 460)] (listed as flow above)
Bws = (Bwsu / 18 lb-mole H2O) / [(128.84 lb-mole dry air) + Bwsu / 18 lb-mole H2O]
PPMc = (PPM) / (1-Bws) PPMK = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m^3/mg-ft^3) PMRg = (PMRc) (Mg/Mcp)
Bgs = below top of casing
Bwsu = (Bwsu / 18 lb-mole H2O) / [(128.84 lb-mole dry air) + Bwsu / 18 lb-mole H2O]
Qsd2 = (60 sec/min) (1-Bws2) (V/A) (Temp. deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp Vs relative hum)
PPMc = PPM measured (wet Conc.)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm^3, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kc = 24.07 dm^3/dm^3-mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcp = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMc = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qsd2 = flow at DSCFM
Ccm = PPMc (Mck)
PMRc = Cc (Oxst) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

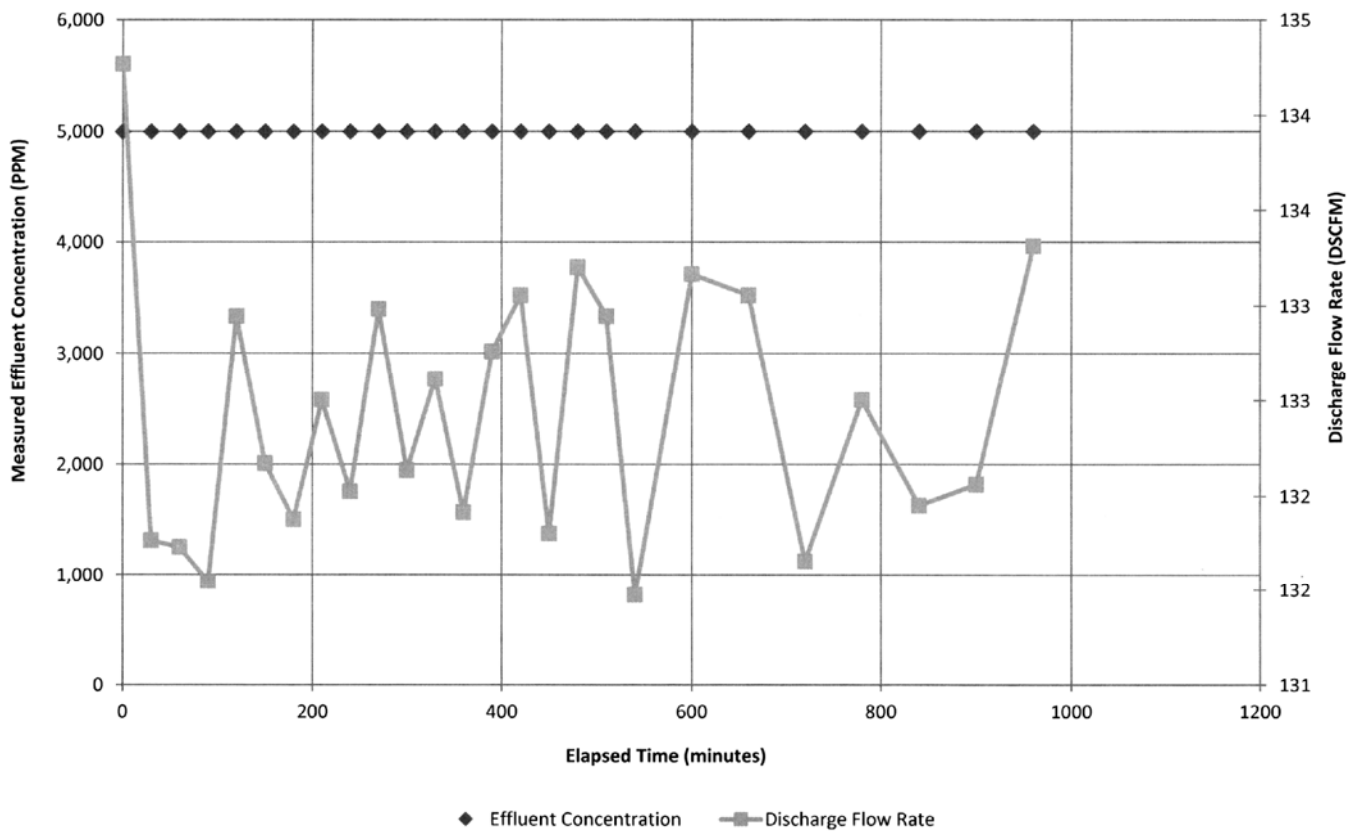
Date:		10/24/2021		Average Depth to Ground Water		3		Soil Type		Clay		3		Kalewba		250825											
Site Name:		Okatie Mart		Vacuum Truck Specification (CFM @ mm Hg)		PPMmeasured		K		Elapsed Flow (min)		PPMd		PPMc		Ccm		Cc		PMRc		PMRg		PMRg			
SCDHEC Site ID #:		10628		Vacuum Contractor		PPMmeasured		K		Elapsed Flow (min)		PPMd		PPMc		Ccm		Cc		PMRc		PMRg		PMRg			
Well ID #:		RW3 / RW6		Temp. (F)		Rel Humid (%)		PPMmeasured		K		Elapsed Flow (min)		PPMd		PPMc		Ccm		Cc		PMRc		PMRg		PMRg	
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	PPMd (DSCFM)	PPMc	Ccm (mg/dsm3)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)											
10/24/2021	8:00	17	3,650	3	178.0	64.0	5,000	4	0	134.27	5480.7	21922.7	10938.6	6.83E-04	5.50	6.37											
10/24/2021	8:30	17	3,582	3	178.0	64.0	5,000	4	30	131.77	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25											
10/24/2021	9:00	17	3,581	3	180.0	64.0	5,000	4	60	131.73	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25											
10/24/2021	9:30	17	3,576	3	180.0	62.0	5,000	4	90	131.55	5480.7	21922.7	10938.6	6.83E-04	5.39	6.24											
10/24/2021	10:00	17	3,614	3	180.0	63.0	5,000	4	120	132.95	5480.7	21922.7	10938.6	6.83E-04	5.45	6.30											
10/24/2021	10:30	17	3,593	3	180.0	61.0	5,000	4	150	132.17	5480.7	21922.7	10938.6	6.83E-04	5.42	6.27											
10/24/2021	11:00	17	3,585	3	182.0	62.0	5,000	4	180	131.88	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25											
10/24/2021	11:30	17	3,602	3	182.0	57.0	5,000	4	210	132.50	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28											
10/24/2021	12:00	17	3,589	3	182.0	54.0	5,000	4	240	132.03	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26											
10/24/2021	12:30	17	3,615	3	182.0	49.0	5,000	4	270	132.98	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31											
10/24/2021	13:00	17	3,692	3	190.0	49.0	5,000	4	300	132.14	5480.7	21922.7	10938.6	6.83E-04	5.41	6.27											
10/24/2021	13:30	17	3,605	3	190.0	50.0	5,000	4	330	132.61	5480.7	21922.7	10938.6	6.83E-04	5.43	6.29											
10/24/2021	14:00	17	3,586	3	190.0	49.0	5,000	4	360	131.92	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26											
10/24/2021	14:30	17	3,609	3	190.0	49.0	5,000	4	390	132.76	5480.7	21922.7	10938.6	6.83E-04	5.44	6.30											
10/24/2021	15:00	17	3,617	3	190.0	50.0	5,000	4	420	133.06	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31											
10/24/2021	15:30	17	3,583	3	190.0	49.0	5,000	4	450	131.81	5480.7	21922.7	10938.6	6.83E-04	5.40	6.25											
10/24/2021	16:00	17	3,621	3	190.0	49.0	5,000	4	480	133.20	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32											
10/24/2021	16:30	17	3,614	3	190.0	48.0	5,000	4	510	132.95	5480.7	21922.7	10938.6	6.83E-04	5.45	6.30											
10/24/2021	17:00	17	3,574	3	186.0	48.0	5,000	4	540	131.47	5480.7	21922.7	10938.6	6.83E-04	5.39	6.23											
10/24/2021	18:00	17	3,620	3	182.0	49.0	5,000	4	600	133.17	5480.7	21922.7	10938.6	6.83E-04	5.46	6.31											
10/24/2021	19:00	17	3,617	3	180.0	48.0	5,000	4	660	133.06	5480.7	21922.7	10938.6	6.83E-04	5.45	6.31											
10/24/2021	20:00	17	3,579	3	176.0	50.0	5,000	4	720	131.66	5480.7	21922.7	10938.6	6.83E-04	5.39	6.24											
10/24/2021	21:00	17	3,602	3	176.0	51.0	5,000	4	780	132.50	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28											
10/24/2021	22:00	17	3,587	3	176.0	49.0	5,000	4	840	131.95	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26											
10/24/2021	23:00	17	3,590	3	176.0	48.0	5,000	4	900	132.06	5480.7	21922.7	10938.6	6.83E-04	5.41	6.26											
10/24/2021	0:00	17	3,624	3	176.0	49.0	5,000	4	960	133.31	5480.7	21922.7	10938.6	6.83E-04	5.46	6.32											
Average		17	3,600	3	183	57	5,000	4	132.44	5480.7	21922.7	10938.6	6.83E-04	5.43	6.28	1.03											

Bws: 0.087702226
Bwsr: 0.06

Total Pounds of Carbon Recovered as Emissions: 86.83
Total Pounds of Gasoline Vapor Recovered as Emissions: 100.48
Total Gallons of Gasoline Recovered as Emissions: 16.55
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qdstr = (60 sec/min) * (1-Bws) * velocity * (Pipe ID sq ft) * (5280 ft / (Temp. + 460)) (Listed As Flow Above)
Bws = (Bwsr / 18 lb-mole H2O) * (1/28.84 lb-mole dry air) * (Bwsr / 18 lb-mole H2O)
PPMd = (PPMc) / (1-Bws) PPMc = (PPMc) * K
Cc = Ccm * (62.43 E-9 lb-m3/mg-m3) PMRg = (PMRc) * (Mq/Mcg)
Bgs = below top of casing
Bsw = (Bwsr / 18 lb-mole H2O) * (1/28.84 lb-mole dry air) * (Bwsr / 18 lb-mole H2O)
Qdstr = (60 sec/min) * (1-Bws) * V * (K * Temp. deg Rankin)
Bgs = below top of casing
Bsw = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsr = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMw = PPM measured (wet Conc.)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm3, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Cc = 24.07 dsm3/mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 86 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mq = 103 mg/mg-mole, molecular wt. of gasoline
Qdstr = Flow at DSCFM
Ccm = PPMc * (Mc/Kc)
PMRc = Cc * (Qdstr) * (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

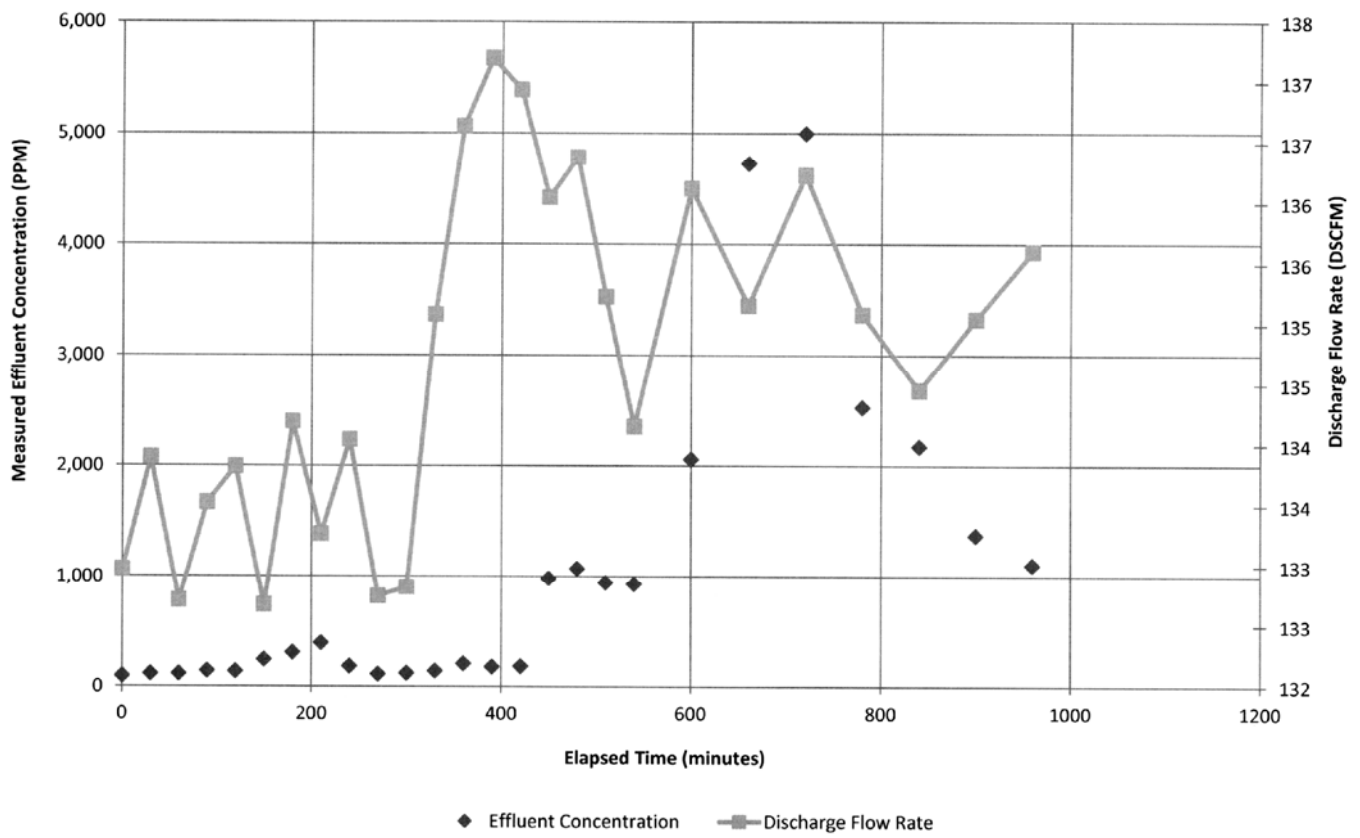
Date: 10/25/2021		Average Depth to Ground Water		3													
Site Name: Okatie Mart		Vacuum Contractor		Soil Type													
SCDHEC Site ID #: 10623		Vacuum Truck Specification (CFM @ mm Hg)		Clay													
Well ID #		RW1 / RW4 / RW5		Katawba													
				250@25													
Date	Time	Vacuum (in Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel.Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	PPMd (DSCFM)	PPMc	Ccm (mg/dsm3)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)	
10/25/2021	8:00	17	3,588	3	170.0	99.0	94	4	0	132.98	103.0	412.1	205.6	1.28E-05	0.10	0.12	0.02
10/25/2021	8:30	17	3,613	3	170.0	99.0	118	4	30	133.90	127.2	508.6	253.8	1.58E-05	0.13	0.15	0.02
10/25/2021	9:00	17	3,581	3	170.0	99.0	116	4	60	132.72	127.2	508.6	253.8	1.58E-05	0.13	0.15	0.02
10/25/2021	9:30	17	3,603	3	170.0	99.0	142	4	90	133.53	155.7	622.6	310.7	1.94E-05	0.16	0.18	0.03
10/25/2021	10:00	17	3,611	3	180.0	99.0	137	4	120	133.83	150.2	600.7	299.7	1.87E-05	0.15	0.17	0.03
10/25/2021	10:30	17	3,580	3	180.0	99.0	244	4	150	132.68	267.5	1069.8	533.8	3.33E-05	0.27	0.31	0.05
10/25/2021	11:00	17	3,621	3	180.0	99.0	309	4	180	134.20	336.7	1354.8	676.0	4.22E-05	0.34	0.39	0.06
10/25/2021	11:30	17	3,596	3	180.0	99.0	396	4	210	133.27	434.1	1736.3	866.3	5.41E-05	0.43	0.50	0.08
10/25/2021	12:00	17	3,617	3	180.0	99.0	185	4	240	134.05	202.8	811.1	404.7	2.53E-05	0.20	0.24	0.04
10/25/2021	12:30	17	3,582	3	180.0	98.0	114	4	270	132.75	125.0	499.8	249.4	1.58E-05	0.12	0.14	0.02
10/25/2021	13:00	17	3,584	3	180.0	98.0	121	4	300	132.83	132.6	530.5	264.7	1.65E-05	0.13	0.15	0.03
10/25/2021	13:30	17	3,645	3	185.0	96.0	142	4	330	135.09	155.7	622.6	310.7	1.94E-05	0.16	0.18	0.03
10/25/2021	14:00	17	3,687	3	185.0	95.0	208	4	360	136.64	226.0	912.0	455.0	2.84E-05	0.23	0.27	0.04
10/25/2021	14:30	17	3,702	3	185.0	94.0	179	4	390	137.20	196.2	784.8	391.6	2.44E-05	0.20	0.23	0.04
10/25/2021	15:00	17	3,695	3	185.0	72.0	185	4	420	136.94	202.8	811.1	404.7	2.53E-05	0.21	0.24	0.04
10/25/2021	15:30	17	3,671	3	185.0	78.0	982	4	450	136.05	1076.4	4305.6	2148.3	1.34E-04	1.09	1.27	0.21
10/25/2021	16:00	17	3,690	3	185.0	78.0	1,074	4	480	136.39	1177.2	4709.0	2349.6	1.47E-04	1.20	1.39	0.23
10/25/2021	16:30	17	3,649	3	185.0	71.0	944	4	510	135.24	1034.7	4139.0	2065.2	1.29E-04	1.05	1.21	0.20
10/25/2021	17:00	17	3,620	3	180.0	68.0	932	4	540	134.16	1021.6	4086.4	2038.9	1.27E-04	1.02	1.19	0.20
10/25/2021	18:00	17	3,673	3	180.0	64.0	2,059	4	600	136.13	2256.9	9027.8	4504.5	2.81E-04	2.30	2.66	0.44
10/25/2021	19:00	17	3,647	3	178.0	84.0	4,727	4	660	135.16	5181.4	20725.7	10341.3	6.46E-04	5.24	6.06	1.00
10/25/2021	20:00	17	3,676	3	175.0	85.0	5,000	4	720	136.24	5480.7	21922.7	10938.6	6.83E-04	5.58	6.46	1.06
10/25/2021	21:00	17	3,645	3	170.0	69.0	2,530	4	780	135.09	2773.2	11092.9	5524.9	3.46E-04	2.80	3.24	0.53
10/25/2021	22:00	17	3,628	3	170.0	78.0	2,174	4	840	134.46	2383.0	9532.0	4756.1	2.97E-04	2.40	2.77	0.46
10/25/2021	23:00	17	3,644	3	170.0	74.0	1,376	4	900	135.05	1508.3	6033.1	3010.3	1.88E-04	1.52	1.76	0.29
10/25/2021	0:00	17	3,659	3	170.0	73.0	1,107	4	960	135.61	1213.4	4853.7	2421.8	1.51E-04	1.23	1.42	0.23
Average		17	3,635	3	178	57	964	4		134.70	1079.0	4315.9	2153.5	1.34E-04	1.09	1.26	0.21

Bws: 0.087702225
Bwsr: 0.06

Total Pounds of Carbon Recovered as Emissions: 17.47
Total Pounds of Gasoline Vapor Recovered as Emissions: 20.22
Total Gallons of Gasoline Recovered as Emissions: 3.33
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstf = (60 sec/min) (1-Bws) (velocity) (Pipe ID sq ft) [(528 ft) / (Temp. + 460)] (Listed As Flow Above)
Bws = (Bwsa / 16 lb-mole H₂O) [(129.84 lb-mole dry air) + Bwsa / 16 lb-mole H₂O]
PPMd = (PPMw) / (1-Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 lb-ft³/mg-ft³) PMRg = (PMRc) (Mg/Mcg)
Bgs = below top of casing
Bws = (Bwsa / 16 lb-mole H₂O) [(129.84 lb-mole dry air) + Bwsa / 16 lb-mole H₂O]
Qstf = (60 sec/min) (1-Bws) (V) (AX) (Temp. deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsr = pounds of water per pound of dry air, derived from the psychrometric chart (temp % relative hum)
PPMw = PPM measured (wet Conc.)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
Kc = 24.07 dm³/10³ mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = 'dry' concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstf = flow at DSCFM
Ccm = PPMc (M/Mc)
PMRc = Cc (Qstf) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

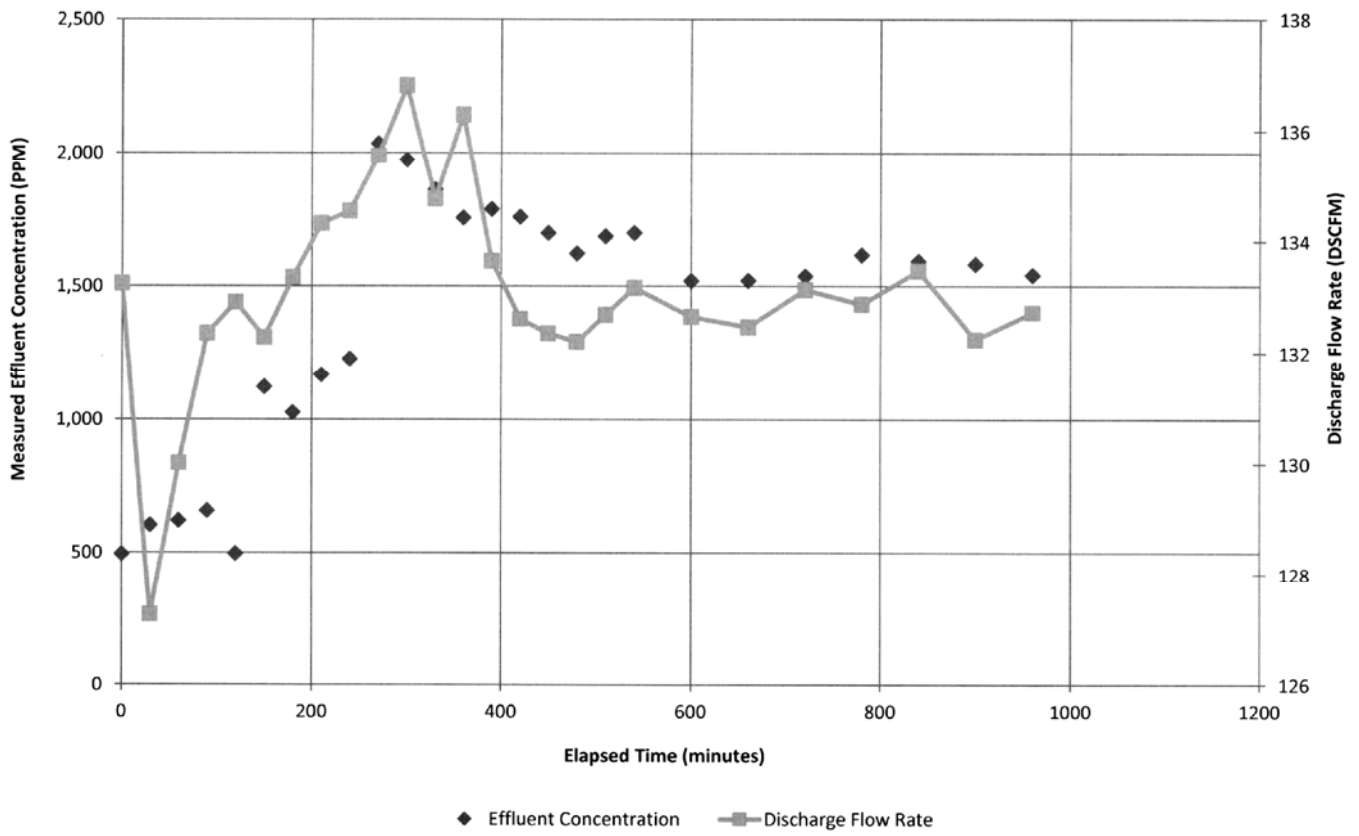
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	RW1 / RW4 / RW5 Pipe ID (in)	Temp. (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	PPMd (DSCFM)	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)	
10/26/2021	8:00	17	3,588	3	170.0	56.0	495	4	0	133.25	542.6	2170.3	1082.9	6.76E-05	0.54	0.63	0.10
10/26/2021	8:30	17	3,427	3	170.0	49.0	604	4	30	127.27	662.1	2648.3	1321.4	8.25E-05	0.63	0.73	0.12
10/26/2021	9:00	17	3,501	3	170.0	43.0	621	4	60	130.02	680.7	2722.8	1358.6	8.48E-05	0.66	0.77	0.13
10/26/2021	9:30	17	3,564	3	170.0	43.0	658	4	90	132.36	721.3	2855.0	1439.5	8.99E-05	0.71	0.83	0.14
10/26/2021	10:00	17	3,579	3	171.0	42.0	497	4	120	132.91	544.8	2179.1	1087.3	6.79E-05	0.54	0.63	0.10
10/26/2021	10:30	17	3,562	3	178.0	45.0	1,123	4	150	132.28	1231.0	4823.8	2456.8	1.53E-04	1.22	1.41	0.23
10/26/2021	11:00	17	3,591	3	178.0	45.0	1,027	4	180	133.36	1125.7	4502.9	2246.8	1.40E-04	1.12	1.30	0.21
10/26/2021	11:30	17	3,617	3	181.0	46.0	1,168	4	210	134.33	1280.3	5121.1	2555.2	1.60E-04	1.29	1.49	0.25
10/26/2021	12:00	17	3,623	3	181.0	45.0	1,229	4	240	134.55	1347.1	5388.6	2688.7	1.68E-04	1.36	1.57	0.26
10/26/2021	12:30	17	3,650	3	183.0	41.0	2,036	4	270	135.55	2231.7	8926.9	4454.2	2.78E-04	2.26	2.62	0.43
10/26/2021	13:00	17	3,684	3	183.0	41.0	1,974	4	300	136.81	2163.8	8655.1	4318.5	2.70E-04	2.21	2.56	0.42
10/26/2021	13:30	17	3,629	3	184.0	42.0	1,862	4	330	134.77	2041.0	8164.0	4073.5	2.54E-04	2.06	2.38	0.39
10/26/2021	14:00	17	3,670	3	185.0	41.0	1,756	4	360	136.29	1924.8	7599.2	3841.6	2.40E-04	1.96	2.27	0.37
10/26/2021	14:30	17	3,599	3	185.0	47.0	1,789	4	390	133.66	1961.0	7843.9	3913.8	2.44E-04	1.96	2.27	0.37
10/26/2021	15:00	17	3,571	3	184.0	48.0	1,760	4	420	132.62	1929.2	7716.6	3850.4	2.40E-04	1.91	2.21	0.36
10/26/2021	15:30	17	3,564	3	184.0	41.0	1,899	4	450	132.36	1882.3	7449.3	3716.9	2.32E-04	1.84	2.13	0.35
10/26/2021	16:00	17	3,560	3	183.0	36.0	1,623	4	480	132.21	1779.0	7116.1	3550.7	2.22E-04	1.76	2.03	0.34
10/26/2021	16:30	17	3,573	3	182.0	37.0	1,887	4	510	132.69	1849.2	7396.7	3690.7	2.30E-04	1.83	2.12	0.35
10/26/2021	17:00	17	3,596	3	181.0	35.0	1,899	4	540	133.17	1862.3	7449.3	3716.9	2.32E-04	1.85	2.15	0.35
10/26/2021	18:00	17	3,572	3	173.0	32.0	1,520	4	600	132.65	1666.1	6864.5	3325.3	2.08E-04	1.65	1.91	0.31
10/26/2021	18:30	17	3,567	3	170.0	32.0	1,521	4	660	132.47	1667.2	6668.9	3327.5	2.08E-04	1.65	1.91	0.31
10/26/2021	20:00	17	3,585	3	170.0	35.0	1,538	4	720	133.14	1685.9	6743.4	3364.7	2.10E-04	1.68	1.94	0.32
10/26/2021	21:00	17	3,578	3	170.0	35.0	1,617	4	780	132.88	1772.4	7099.6	3537.5	2.21E-04	1.76	2.04	0.34
10/26/2021	22:00	17	3,594	3	170.0	36.0	1,594	4	840	133.47	1747.2	6988.9	3487.2	2.18E-04	1.74	2.02	0.33
10/26/2021	23:00	17	3,561	3	170.0	35.0	1,563	4	900	132.25	1735.2	6940.7	3463.1	2.16E-04	1.72	1.99	0.33
10/26/2021	0:00	17	3,574	3	170.0	34.0	1,542	4	960	132.73	1690.2	6761.0	3373.5	2.11E-04	1.68	1.94	0.32
Average		17	3,583	3	177	57	1,363	4		133.08	1527.1	6108.3	3047.8	1.90E-04	1.52	1.76	0.29

Bws: 0.087702226
Bwsw: 0.06

Total Pounds of Carbon Recovered as Emissions: 24.37
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.20
Total Gallons of Gasoline Recovered as Emissions: 4.64
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstf = (60 sec/min) * (1 - Bws) * (velocity) * (Pipe ID sq ft) * (528 ft / mi) * (Temp. + 460) (Listed As Flow Above)
Bws = (B_{top} / 18 lb-mole H₂O) / [(1/26.84 lb-mole dry air) + (B_{top} / 18 lb-mole H₂O)]
PPMd = (PPMe) * (1 - Bws) PPMc = (PPMc) * K
Cc = Ccm (62.43 lb-mole/m³) PMRg = (PMRc) * (Mg/Mc)
Bgs = below top of casing
Bws = (B_{top} / 18 lb-mole H₂O) / [(1/26.84 lb-mole dry air) + (B_{top} / 18 lb-mole H₂O)]
Qstf = (60 sec/min) * (1 - Bws) * (V) * (A) * (Temp deg Rankin)
Bgs = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsw = pounds of water per pound of dry air, derived from the psychrometric chart (temp V/s relative hum)
PPMe = PPM measured (wet Conc)
K = # of carbons in calibration gas (isobutylene)
PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dsm³/10⁶ mg-mole, mass to volume conversion factor at stp
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mg = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstf = Flow at DSCFM
Ccm = PPMc (Mg/K)
PMRc = Cc (Qstf) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

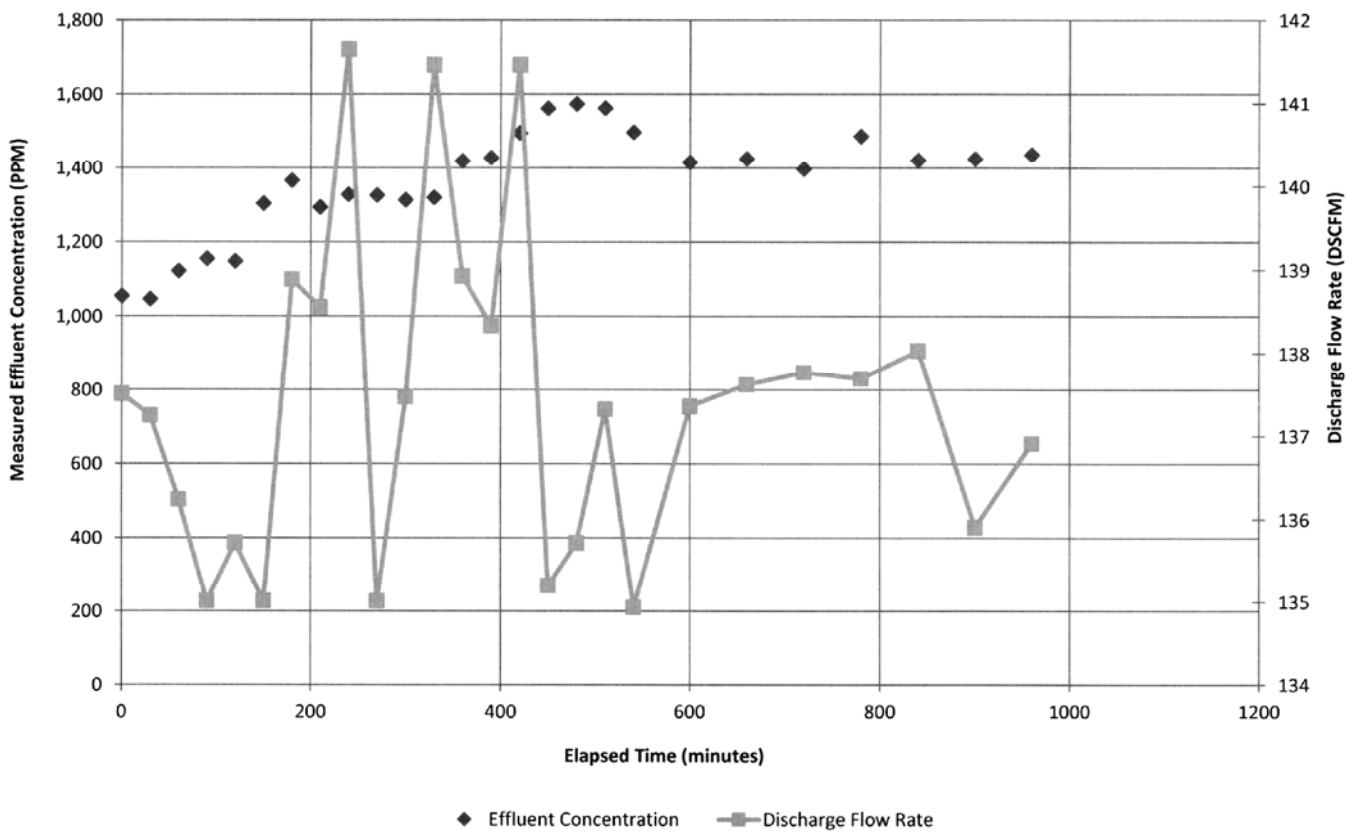
Date:		10/27/2021		Average Depth to Ground Water		3		Soil Type		Clay		Kalamata		250922			
Site Name:		Okate Mart		Vacuum Truck Specification (CFM @ mm Hg)		Vacuum Contractor		PPM		PPMc		Ccm		Cc			
SCDHEC Site ID #:		10528		RW1 / RW4 / RW5		Vacuum Truck Specification (CFM @ mm Hg)		PPM		PPMc		Ccm		Cc			
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	DSCFM	PPM	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)
10/27/2021	8:00	18	3,688	3	170.0	82.0	1,056	4	0	137.51	1157.5	4630.1	2310.2	1.44E-04	1.19	1.38	0.23
10/27/2021	8:30	18	3,681	3	170.0	81.0	1,047	4	30	137.25	1147.7	4590.6	2290.5	1.43E-04	1.18	1.36	0.22
10/27/2021	9:00	18	3,654	3	170.0	86.0	1,123	4	60	136.24	1231.0	4923.8	2456.8	1.53E-04	1.25	1.45	0.24
10/27/2021	9:30	19	3,621	3	170.0	84.0	1,156	4	90	135.01	1287.1	5068.5	2529.0	1.58E-04	1.28	1.48	0.24
10/27/2021	10:00	18	3,640	3	170.0	81.0	1,149	4	120	135.72	1256.5	5037.8	2513.7	1.57E-04	1.28	1.48	0.24
10/27/2021	10:30	18	3,621	3	170.0	76.0	1,304	4	150	135.01	1429.4	5717.4	2852.8	1.78E-04	1.44	1.67	0.27
10/27/2021	11:00	19	3,725	3	170.0	71.0	1,368	4	180	138.89	1497.3	5989.3	2988.4	1.87E-04	1.55	1.80	0.30
10/27/2021	11:30	19	3,716	3	170.0	72.0	1,294	4	210	136.55	1418.4	5673.6	2830.9	1.77E-04	1.47	1.70	0.28
10/27/2021	12:00	19	3,799	3	171.0	67.0	1,328	4	240	141.65	1455.7	5822.7	2905.3	1.81E-04	1.54	1.78	0.29
10/27/2021	12:30	18	3,621	3	173.0	65.0	1,326	4	270	135.01	1453.5	5613.9	2900.9	1.81E-04	1.47	1.70	0.28
10/27/2021	13:00	18	3,687	3	174.0	62.0	1,313	4	300	137.47	1439.2	5756.9	2872.5	1.79E-04	1.48	1.71	0.28
10/27/2021	13:30	19	3,794	3	174.0	54.0	1,320	4	330	141.46	1446.9	5787.6	2887.8	1.80E-04	1.53	1.77	0.29
10/27/2021	14:00	19	3,726	3	175.0	50.0	1,419	4	360	138.93	1555.4	6221.7	3104.4	1.94E-04	1.62	1.87	0.31
10/27/2021	14:30	19	3,710	3	178.0	43.0	1,428	4	390	136.33	1565.3	6261.1	3124.1	1.95E-04	1.62	1.87	0.31
10/27/2021	15:00	19	3,794	3	180.0	32.0	1,495	4	420	141.46	1638.7	6554.9	3270.6	2.04E-04	1.73	2.01	0.33
10/27/2021	15:30	18	3,626	3	180.0	19.0	1,562	4	450	135.20	1712.2	6848.6	3417.2	2.13E-04	1.73	2.00	0.33
10/27/2021	16:00	18	3,640	3	181.0	21.0	1,574	4	480	135.72	1725.3	6901.3	3443.5	2.15E-04	1.75	2.03	0.33
10/27/2021	16:30	18	3,683	3	180.0	23.0	1,563	4	510	137.32	1713.3	6853.0	3419.4	2.13E-04	1.76	2.04	0.34
10/27/2021	17:00	18	3,619	3	180.0	25.0	1,497	4	540	134.94	1640.9	6563.6	3275.0	2.04E-04	1.66	1.92	0.32
10/27/2021	18:00	18	3,684	3	179.0	26.0	1,416	4	600	137.36	1552.1	6208.5	3097.8	1.93E-04	1.59	1.84	0.30
10/27/2021	19:00	18	3,691	3	178.0	23.0	1,425	4	660	137.62	1562.0	6248.0	3117.5	1.95E-04	1.61	1.86	0.31
10/27/2021	20:00	18	3,695	3	176.0	20.0	1,398	4	720	137.77	1532.4	6129.6	3058.4	1.91E-04	1.58	1.83	0.30
10/27/2021	21:00	18	3,693	3	175.0	19.0	1,486	4	780	137.70	1628.9	6515.4	3250.9	2.03E-04	1.68	1.94	0.32
10/27/2021	22:00	18	3,702	3	173.0	24.0	1,421	4	840	138.33	1557.6	6230.4	3108.7	1.94E-04	1.61	1.86	0.31
10/27/2021	23:00	18	3,645	3	171.0	26.0	1,425	4	900	135.91	1562.0	6248.0	3117.5	1.95E-04	1.59	1.84	0.30
10/27/2021	0:00	18	3,672	3	170.0	23.0	1,437	4	960	136.91	1575.1	6300.6	3143.7	1.96E-04	1.61	1.87	0.31
Average		18	3,686	3	174	57	1,359	4		137.42	1489.4	5957.6	2972.6	1.86E-04	1.53	1.77	0.29

Bws: 0.08 / 102226
Bwsv: 0.06

Total Pounds of Carbon Recovered as Emissions: 24.49
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.34
Total Gallons of Gasoline Recovered as Emissions: 4.67
(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstd = (60 sec/min) (F-Bws) (velocity) (Pipe ID sq ft) [(528 ft) / (Temp + 460)] (Listed As Flow Above)
Bws = (Bwsu / 16 lb-mole H₂O) / [(126.84 lb-mole dry air) + Bwsu / 16 lb-mole H₂O]
PPM = (PPMv) / (1-Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-vol³/mg-ft³) PMRg = (PMRc) (Mg/Mog)
Bg = below top of casing
Bwsu = (Bwsu / 16 lb-mole H₂O) / [(126.84 lb-mole dry air) + Bwsu / 16 lb-mole H₂O]
Qstd = (60 sec/min) (F-Bwsv) (AXTemp deg Rankin)
Bg = below top of casing
Bws = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsv = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMv = PPM measured (wet Conc)
K = # of carbons in calibration gas (isocytrene)
PPMv = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
M = 12.01 mg/mg-mole, molecular wt. of carbon
Cc = 24.07 dsm³/mg-mole, mass to volume conversion factor at stp
C = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mog = 89 mg/mg-mole, weight of carbon in gasoline molecule
PPMd = 'dry' concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Dscf = Flow at DSCFM
Ccm = PPMc (M/Mc)
PMRc = Cc (Qstd) (60 min/hr)

AFVR Field Emissions Data



AFVR Field Emissions Data

Date		10/28/2021		Average Depth to Ground Water		3		Soil Type		3		City					
Site Name		Okla Mart		Vacuum Contractor		2506225		Katowba		2506225							
SCDHEC Site ID #		10655		Vacuum Truck Specification (CFM @ 1mm Hg)													
Well ID #		RW1 / RW4 / RW5		Temp. (F)		Rel Humid (%)		PPMmeasured (ppm)		K		Elapsed Flow (min) (DSCFM)					
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe ID (in)	Temp. (F)	Rel Humid (%)	PPMmeasured (ppm)	K	Elapsed Flow (min)	PPMd (DSCFM)	PPMc	Ccm (mg/dsm ³)	Cc (lb/dscf)	PMRc (lb/hr)	PMRg (lb/hr)	PMRg (gal/hr)	
10/28/2021	8:00	18	3,688	3	170.0	82.0	1,056	4	0	137.51	1157.5	4630.1	2310.2	1.44E-04	1.19	1.38	0.23
10/28/2021	8:30	18	3,681	3	170.0	81.0	1,047	4	30	137.25	1147.7	4590.6	2290.5	1.43E-04	1.18	1.36	0.22
10/28/2021	9:00	18	3,654	3	170.0	86.0	1,123	4	60	136.24	1231.0	4823.8	2456.8	1.53E-04	1.25	1.45	0.24
10/28/2021	9:30	19	3,621	3	170.0	84.0	1,156	4	90	135.01	1267.1	5068.5	2529.0	1.58E-04	1.28	1.48	0.24
10/28/2021	10:00	18	3,640	3	170.0	81.0	1,149	4	120	135.72	1259.5	5037.8	2513.7	1.57E-04	1.28	1.48	0.24
10/28/2021	10:30	18	3,621	3	170.0	76.0	1,304	4	150	135.01	1429.4	5717.4	2852.8	1.78E-04	1.44	1.67	0.27
10/28/2021	11:00	19	3,725	3	170.0	71.0	1,366	4	180	138.89	1497.3	5989.3	2988.4	1.87E-04	1.55	1.80	0.30
10/28/2021	11:30	19	3,716	3	170.0	72.0	1,294	4	210	138.55	1418.4	5673.6	2830.9	1.77E-04	1.47	1.70	0.28
10/28/2021	12:00	19	3,799	3	171.0	67.0	1,328	4	240	141.65	1455.7	5822.7	2905.3	1.81E-04	1.54	1.78	0.29
10/28/2021	12:30	18	3,621	3	173.0	65.0	1,326	4	270	135.01	1453.5	5813.9	2900.9	1.81E-04	1.47	1.70	0.28
10/28/2021	13:00	18	3,687	3	174.0	62.0	1,313	4	300	137.47	1439.2	5756.9	2872.5	1.79E-04	1.48	1.71	0.28
10/28/2021	13:30	19	3,794	3	174.0	54.0	1,320	4	330	141.46	1446.9	5787.6	2867.8	1.80E-04	1.53	1.77	0.29
10/28/2021	14:00	19	3,726	3	175.0	50.0	1,419	4	360	138.93	1555.4	6221.7	3104.4	1.94E-04	1.62	1.87	0.31
10/28/2021	14:30	19	3,710	3	178.0	43.0	1,428	4	390	138.33	1565.3	6261.1	3124.1	1.95E-04	1.62	1.87	0.31
10/28/2021	15:00	19	3,794	3	180.0	32.0	1,495	4	420	141.46	1636.7	6554.9	3270.6	2.04E-04	1.73	2.01	0.33
10/28/2021	15:30	18	3,626	3	180.0	19.0	1,562	4	450	135.20	1712.2	6848.6	3417.2	2.13E-04	1.73	2.00	0.33
10/28/2021	16:00	18	3,640	3	181.0	21.0	1,574	4	480	135.72	1725.3	6901.3	3443.5	2.15E-04	1.75	2.03	0.33
10/28/2021	16:30	18	3,683	3	180.0	23.0	1,563	4	510	137.32	1713.3	6853.0	3419.4	2.13E-04	1.76	2.04	0.34
10/28/2021	17:00	18	3,619	3	180.0	25.0	1,497	4	540	134.94	1640.9	6563.6	3275.0	2.04E-04	1.66	1.92	0.32
10/28/2021	18:00	18	3,684	3	179.0	26.0	1,416	4	600	137.36	1552.1	6208.5	3097.8	1.93E-04	1.59	1.84	0.30
10/28/2021	19:00	18	3,691	3	178.0	23.0	1,425	4	660	137.62	1562.0	6248.0	3117.5	1.95E-04	1.61	1.86	0.31
10/28/2021	20:00	18	3,695	3	176.0	20.0	1,388	4	720	137.77	1532.4	6129.6	3058.4	1.91E-04	1.58	1.83	0.30
10/28/2021	21:00	18	3,693	3	175.0	19.0	1,486	4	780	137.70	1626.9	6515.4	3250.9	2.03E-04	1.56	1.94	0.32
10/28/2021	22:00	18	3,702	3	173.0	24.0	1,421	4	840	138.03	1557.8	6230.4	3108.7	1.94E-04	1.61	1.86	0.31
10/28/2021	23:00	18	3,645	3	171.0	26.0	1,425	4	900	135.91	1562.0	6248.0	3117.5	1.95E-04	1.59	1.84	0.30
10/28/2021	0:00	18	3,672	3	170.0	23.0	1,437	4	960	136.91	1575.1	6300.6	3143.7	1.96E-04	1.61	1.87	0.31
Average		18	3,686	3	174	57	1,359	4		137.42	1499.4	5957.6	2972.6	1.86E-04	1.53	1.77	0.29

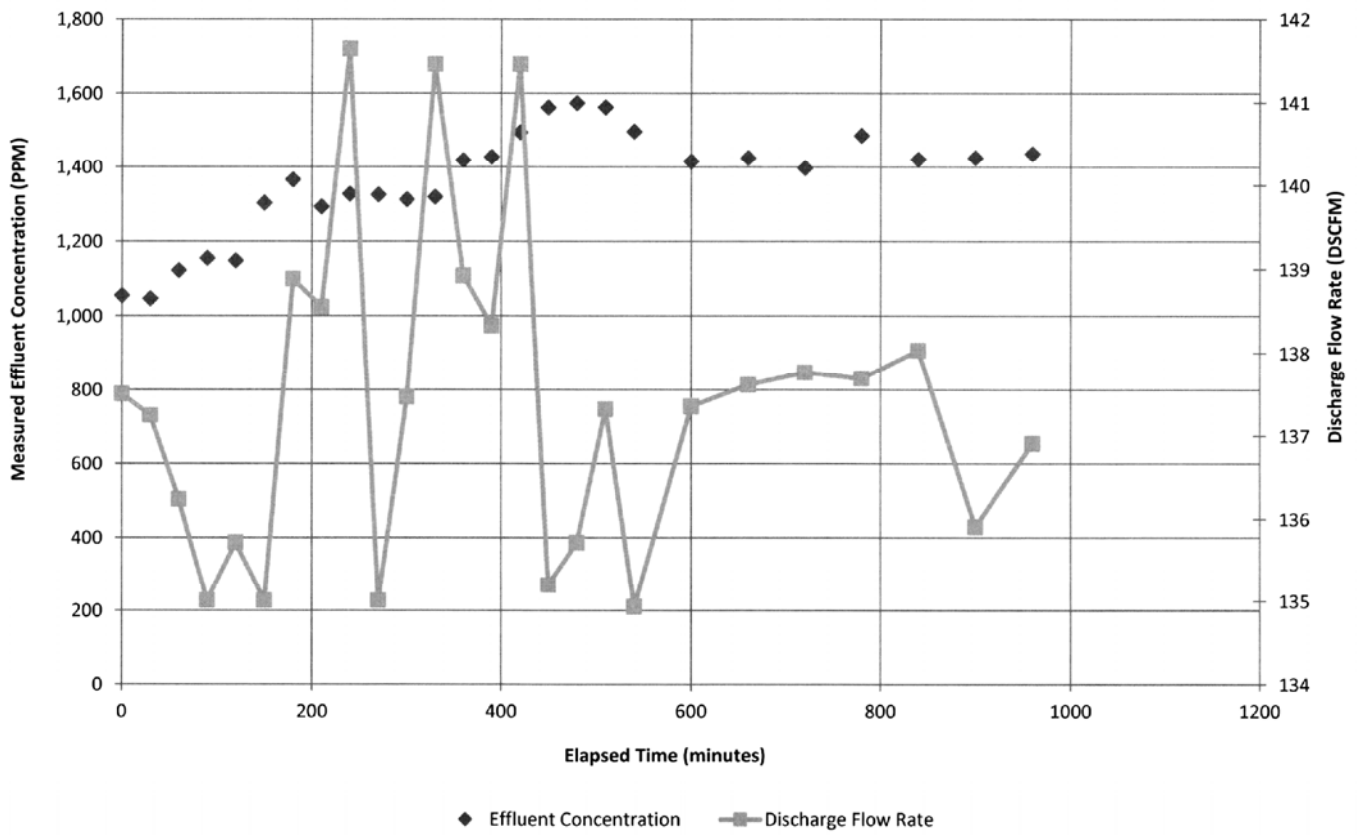
Bws: 0.087702226
Bwsr: 0.06

Total Pounds of Carbon Recovered as Emissions: 24.49
Total Pounds of Gasoline Vapor Recovered as Emissions: 28.34
Total Gallons of Gasoline Recovered as Emissions: 4.67

(This Number Represents the Gallons Recovered via Vapors, Not Total Liquids)

Qstr = (60 sec/min) (1 - Bws) (velocity) (Pipe ID sq ft) (528 ft / 1 mile) (Temp. + 460) (Listed As Flow Above)
Bws = (Bwsr / 16 lb-mole H₂O) / [(1/26.84 lb-mole dry air) + Bwsr / 16 lb-mole H₂O]
PPMd = (PPMc) / (1 - Bws) PPMc = (PPM) (K)
Cc = Ccm (62.43 E-9 lb-m³/mg-ft³) PMRg = (PMRc) (Mg/Mc)
Bgs = below top of casing
Bwsr = (Bwsr / 16 lb-mole H₂O) / [(1/26.84 lb-mole dry air) + Bwsr / 16 lb-mole H₂O]
Qstr = (60 sec/min) (1 - Bwsr) (A) (Temp. deg Rankin)
Bgs = below top of casing
Bwsr = water vapor % by volume
PPMmeasured = obtained directly from Photo Ionization Detector (PID)
Bwsr = pounds of water per pound of dry air, derived from the psychrometric chart (temp V's relative hum)
PPMw = PPM measured (wet Conc.)
K = # of carbons in calibration gas (tetrachloroethane)
PPMc = PPMc volumetric concentration of VOC emissions as carbon, dry basis, at STP
Ccm = mg/dsm³, mass concentration of VOC emissions as carbon
Mc = 12.01 mg/mg-mole, molecular wt. of carbon
K_v = 24.07 dsm³/10³ mg-mole, mass to volume conversion factor at STP
Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP
PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon
PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline
Mcg = 89 mg/mg-mole, weight of carbon as gasoline molecule
PPMd = "dry" concentration
Mg = 103 mg/mg-mole, molecular wt. of gasoline
Qstr = Flow at DSCFM
Ccm = PPMc (Mc/K_v)
PMRc = Cc (Qstr) (60 min/hr)

AFVR Field Emissions Data

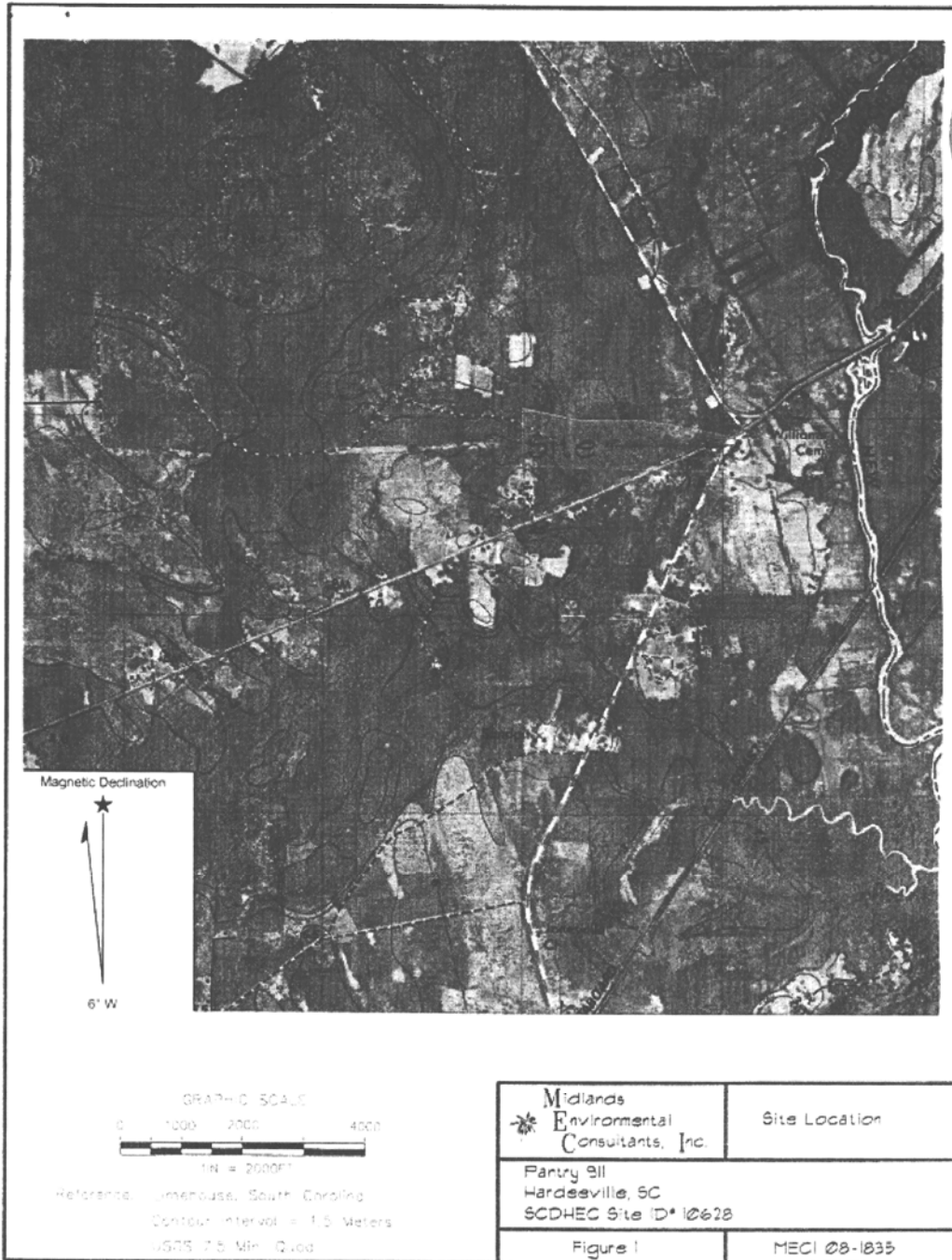


SHREEJAKSHANI, LLC DBA OKATIE MART

SC DHEC SITE #10628

6194 South Okatie Highway

Hardeeville, South Carolina



Domenico Solution Notes

Arthur Brown, Hydrogeologist

Regional Geology – 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.

Receptors – A number of potential receptors located within a 1,000 foot radius of the subject site have been identified in previous receptor surveys including two private water supply wells, three surface waters, and a low-lying wetlands area adjacent to the former UST basin. The latter is the closest potential receptor and has already been significantly impacted. As a result, the wetlands area adjacent to the former UST basin is selected as the receptor for the purposes of this model in order to generate the most conservative site specific target levels.

Source Area – The historical presence of free product has been noted in the following monitoring wells: RW-1, RW-3, RW-5, RW-6, MW-3R, MW-7RR, and MW-14; however, RW-1, RW-4, RW-5, and MW-7RR are approximately 220 feet from both the former UST basin and the other aforementioned monitoring wells. The distance between the selected monitoring wells, the lack of petroleum hydrocarbon chemical detections in monitoring wells in the flow path between these two areas, and the absence of MTBE in monitoring/recovery wells MW-7RR, RW-1, RW-4, and RW-5 provides evidence to suggest that these two areas where free product has been observed may represent two separate releases. For the purposes of this model, the vicinity of the former UST basin has been selected as the source area and monitoring well MW-3R will be utilized as the point to represent this. Site specific target levels were generated by the Department in 2009 for the initial release and these are still considered valid for the with the exception of those generated for the following monitoring wells: MW-3R, MW-4R, MW-14.

Aquifer Properties:

Hydraulic Conductivity: In the absence of site-specific data regarding hydraulic conductivity, literature values are used here to reflect the results of the grain size analysis and lithologic descriptions (Appendix). Typical values for the hydraulic conductivity of fine sand are 0.01 – 0.001 cm/sec. To reflect the heterogeneity of the subsurface and the presence of clay and silt, a value of 0.001 cm/sec (1034.65 feet/year) is selected as the Hydraulic Conductivity for the purposes of this model.

Hydraulic Gradient: The Hydraulic Gradient was calculated using piezometric data for monitoring wells MW-3R and MW-11 reported in the 2015 groundwater sampling report submitted by Midlands Environmental resulting in a Hydraulic Gradient of 0.009 feet/feet.

Effective Porosity: Katawba Environmental, Inc. collected soil samples and subsequently performed grain size analyses (ASTM D422/T88) on soil borings SB-1 and SB-2 (Appendix). The results of these analyses indicate that the sample collected at 8 feet below grade is predominately composed of fine sand (48.5%) and clay (34.0%) while those collected at 15 feet below grade are predominately composed of fine sand (68.2%) and medium sand (15.5%). While a core analysis was not performed to determine the effective porosity of the aforementioned samples as part of this scope of work, an Effective Porosity of 0.35 is selected here for the purposes of this model to reflect the predominance of fine sand in these samples and the inclusion of silt/clay.

Fraction Organic Carbon: Katawba Environmental, Inc. collected background soil samples and subsequently performed a total organic carbon analysis (Walkley-Black) as part of the additional assessment report submitted on December 30, 2021. The resulting value of background total organic carbon for this site is 2,400 mg/kg (f_{oc} : 0.0024 g/g). The wetland area adjacent to the UST facility is suspected to have a higher concentration of available organic carbon that will retard

the migration of dissolved petroleum hydrocarbons; however, the previously listed value is used here instead to generate the most conservative site specific target levels.

Plume Length – The Plume Length is defined as the distance measured between Monitoring Wells MW-3R and MW-11 resulting in a distance of **146 feet**.

xMax – Due to the limitations of the current monitoring well network, for the purposes of this model the xMax distance is equal to the Plume Length.

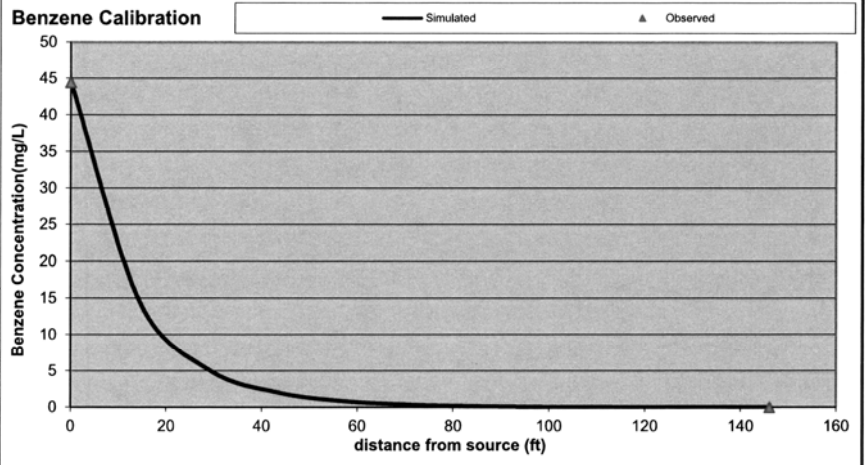
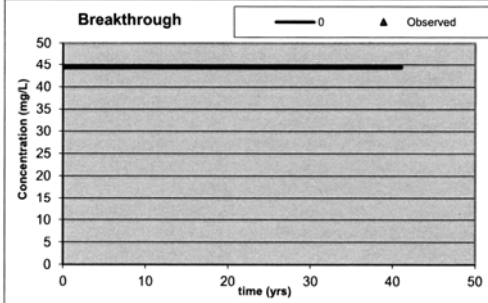
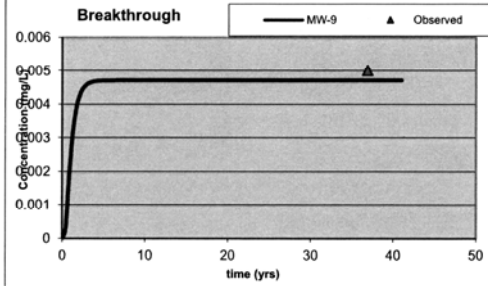
yMax – yMax is defined as the distance measured between Monitoring Well MW-9 and the point where it intersects the line drawn to represent the Plume Length at a right angle resulting in a distance of **80 feet**.

Calibration Wells – The presence of the low-lying wetland area in between the vicinity of monitoring wells MW-3R and MW-11 makes the installation of additional monitoring wells difficult and as a result imposes limitations on this model. No calibration wells have been selected due to this limitation.

Model Calibration – In order to work within the limitation imposed by the low-lying wetland area and difficulties expanding the monitoring well network, models are calibrated to the highest historical concentrations observed in Monitoring Well MW-11 and MW-9 which represents the furthest extent of the x and y axis of the contaminant plume, respectively. For contaminants for which no historical detections exist, models are calibrated to the detection limit with the exception of the model for Naphthalene. The Naphthalene model was calibrated by setting the half-life to the highest value expected for this contaminant under typical conditions resulting in calculated detections below the detection limit at the furthest extent of the contaminant plume along the y-axis and approximately 15 feet from the furthest extent of the x-axis. Due to the low mobility of Naphthalene, this method is arguably acceptable for the purposes of this model and generating conservative site-specific target levels.

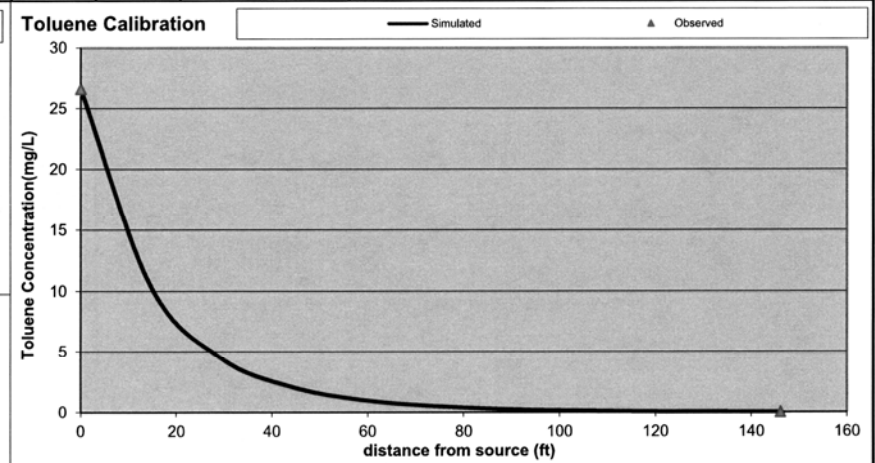
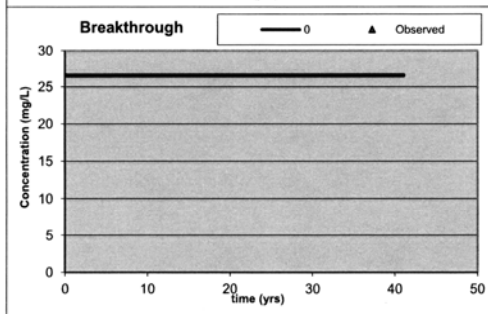
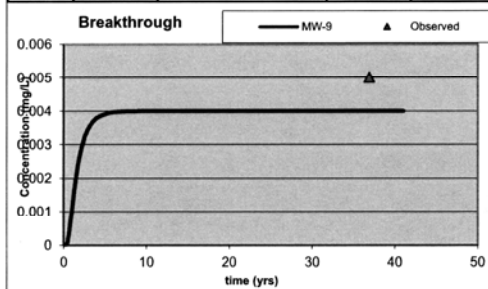
Domenico Model			Transport Parameters			Simulation Time		
UST # 10628 Site Name: Shreejakshani, LLC Modeler: Arthur Brown Date: 1/6/2021			x_{max} 146 ft y_{max} 80 ft z 0 ft Source Width 30 ft Source Thickness 15 ft			t_{sim} 41 yrs		
Groundwater Flow Parameters			Plume Length			Aquifer Characteristics		
K 1034.65 ft/yr dh/dx 0.009 θ 0.35 dec. % v_x 26.60528571 ft/yr			146 ft α_x 9.098951 ft α_y 0.909895 ft α_z 1.00E-99 ft			ρ_d 1.7 kg/L f_{oc} 0.0024		
Source Area CoC Data			Retarded Velocity (ft/yr)			Simulation Points for Breakthrough Curves		
CoC	C_{source} (mg/L)	K_{oc} (L/kg)	CoC	R	v_R			
Benzene	44.39	81	Benzene	1.944	13.68	MW-9		
Toluene	26.54	133	Toluene	2.550	10.43	x 26		
Ethylbenzene	3.7	176	Ethylbenzene	3.052	8.72	y 80		
Xylenes	21.68	639	Xylenes	8.449	3.15	z		
Naphthalene	6.7	1543	Naphthalene	18.987	1.40			
MtBE	173	11	MtBE	1.128	23.58			
EDB	1.9	28	EDB	1.326	20.06			
1,2-DCA		17.5	1,2-DCA	1.204	22.10			
$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$								

Benzene Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	10628
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9		0		Site Name	Shreejakshani, LLC
			t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	
0	44.39	44.39	0		0		44.39	Model Calibration Parameters t _{1/2} 0.65 yrs λ 1.06615 yr ⁻¹ v _x 26.60529 ft/yr R 1.944 v _R 13.684 ft/yr C _{source} 44.39 mg/L L _D 146 ft t _{sim} 41 yrs α _x 9.098951 ft α _y 7.279161 ft α _z 1E-99 ft
14.6		14.329	4.1		0.005		44.390	
29.2		5.083	8.2		0.005		44.390	
43.8		1.978	12.3		0.005		44.390	
58.4		0.805	16.4		0.005		44.390	
73		0.337	20.5		0.005		44.390	
87.6		0.143	24.6		0.005		44.390	
102.2		0.062	28.7		0.005		44.390	
116.8		0.027	32.8		0.005		44.390	
131.4		0.012	36.9	0.005	0.005		44.390	
146	0.005	0.005	41		0.005		44.390	



Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	8.4934E-05	0.0076967	0.02183894	0.02527647	0.02022303	0.0134059	0.007973	0.00443	0.002353	0.001211
40	0.88699683	1.03782925	0.6469597	0.34001816	0.16690207	0.0792898	0.037019	0.017113	0.007865	0.003602
0	14.3290417	5.08348506	1.97782944	0.80516138	0.33664795	0.1432555	0.061725	0.026844	0.011758	0.00518
40	0.88699683	1.03782925	0.6469597	0.34001816	0.16690207	0.0792898	0.037019	0.017113	0.007865	0.003602
80	8.4934E-05	0.0076967	0.02183894	0.02527647	0.02022303	0.0134059	0.007973	0.00443	0.002353	0.001211

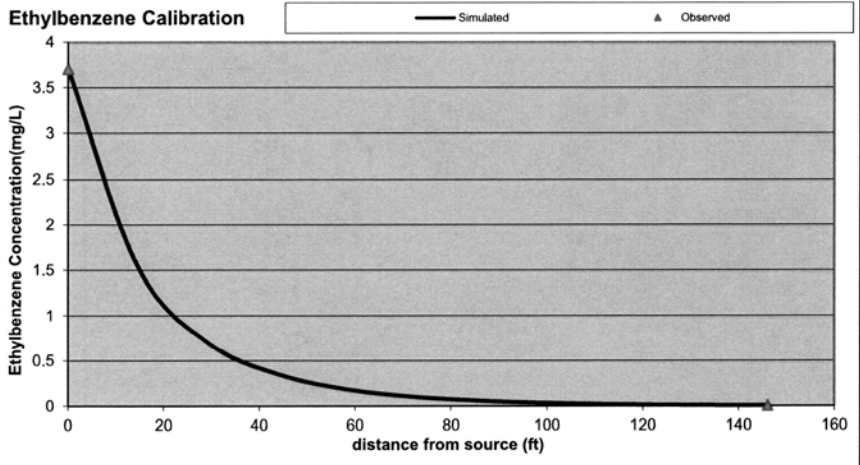
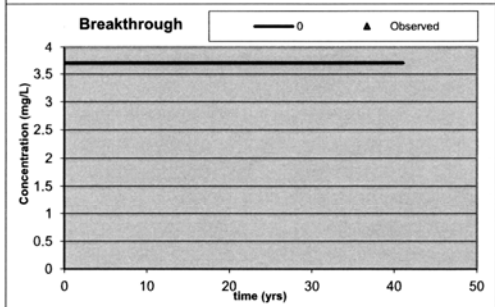
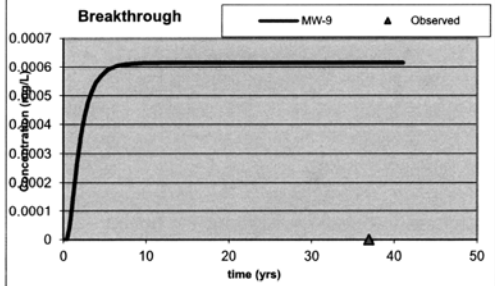
Toluene Calibration									
Spatial Calibration Data (centerline)			Temporal Calibration Data						Site ID
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9			0			10628
			t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name	
0	26.54	26.54	0		0		26.54	Shreejakashani, LLC	
14.6		10.432	4.1		0.004		26.540	Model Calibration Parameters $t_{1/2}$ 1.25 yrs λ 0.5544 yr ⁻¹ v_x 26.60529 ft/yr R 2.550 v_R 10.432 ft/yr C _{source} 26.54 mg/L L _p 146 ft t _{sim} 41 yrs α_x 9.098951 ft α_y 7.279161 ft α_z 1E-99 ft	
29.2		4.507	8.2		0.004		26.540		
43.8		2.135	12.3		0.004		26.540		
58.4		1.058	16.4		0.004		26.540		
73		0.539	20.5		0.004		26.540		
87.6		0.279	24.6		0.004		26.540		
102.2		0.147	28.7		0.004		26.540		
116.8		0.078	32.8		0.004		26.540		
131.4		0.041	36.9	0.005	0.004		26.540		
146	0.022	0.022	41		0.004		26.540		



Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	6.1836E-05	0.00682349	0.02357635	0.03322802	0.03237259	0.0261318	0.018925	0.012805	0.008281	0.005189
40	0.64577453	0.92008474	0.69842893	0.44698216	0.26717319	0.1545581	0.08787	0.049465	0.027683	0.015439
0	10.4322021	4.50675006	2.13517675	1.05845161	0.53889868	0.279245	0.146513	0.07759	0.041386	0.022202
40	0.64577453	0.92008474	0.69842893	0.44698216	0.26717319	0.1545581	0.08787	0.049465	0.027683	0.015439
80	6.1836E-05	0.00682349	0.02357635	0.03322802	0.03237259	0.0261318	0.018925	0.012805	0.008281	0.005189

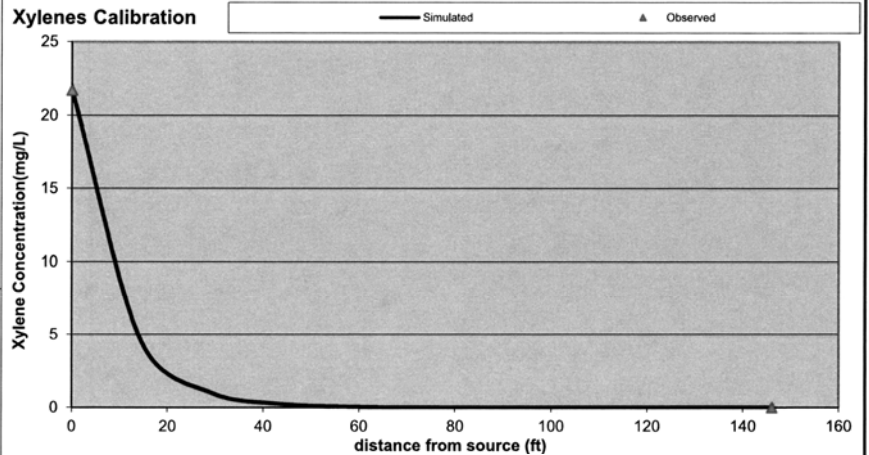
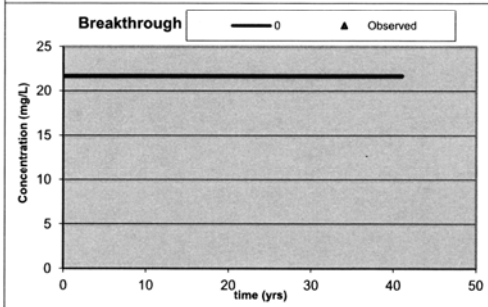
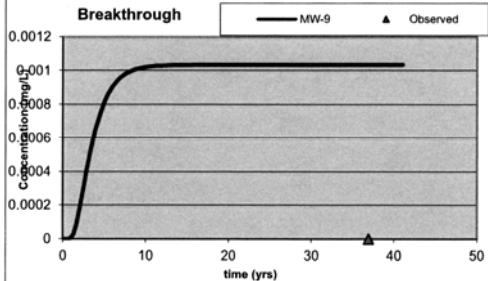
Ethylbenzene Calibration

Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	10628		
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9		0		Site Name	Shreejakshani, LLC		
t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Model Calibration Parameters			
0	3.7	3.7	0	0	0	3.7	t _{1/2}	1.7 yrs	λ	0.40765 yr ⁻¹
14.6		1.537	4.1	0.001		3.700	v _x	26.60529 ft/yr		
29.2		0.702	8.2	0.001		3.700	R	3.052		
43.8		0.352	12.3	0.001		3.700	v _R	8.718 ft/yr	C _{source}	3.7 mg/L
58.4		0.184	16.4	0.001		3.700	L _p	146 ft	t _{sim}	41 yrs
73		0.099	20.5	0.001		3.700	α _x	9.098951 ft		
87.6		0.054	24.6	0.001		3.700	α _y	7.279161 ft		
102.2		0.030	28.7	0.001		3.700	α _z	1E-99 ft		
116.8		0.017	32.8	0.001		3.700				
131.4		0.010	36.9	0.001	ND	3.700				
146	0.005	0.005	41	0.001		3.700				



Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	9.1133E-06	0.00106309	0.00388305	0.0057854	0.00595851	0.0050847	0.003893	0.002784	0.001903	0.001261
40	0.09517298	0.14334829	0.11503204	0.07782493	0.04917602	0.0300735	0.018074	0.010756	0.006364	0.003752
0	1.53747737	0.70214717	0.35166605	0.18428906	0.09918993	0.0543348	0.030137	0.016872	0.009514	0.005395
40	0.09517298	0.14334829	0.11503204	0.07782493	0.04917602	0.0300735	0.018074	0.010756	0.006364	0.003752
80	9.1133E-06	0.00106309	0.00388305	0.0057854	0.00595851	0.0050847	0.003893	0.002784	0.001903	0.001261

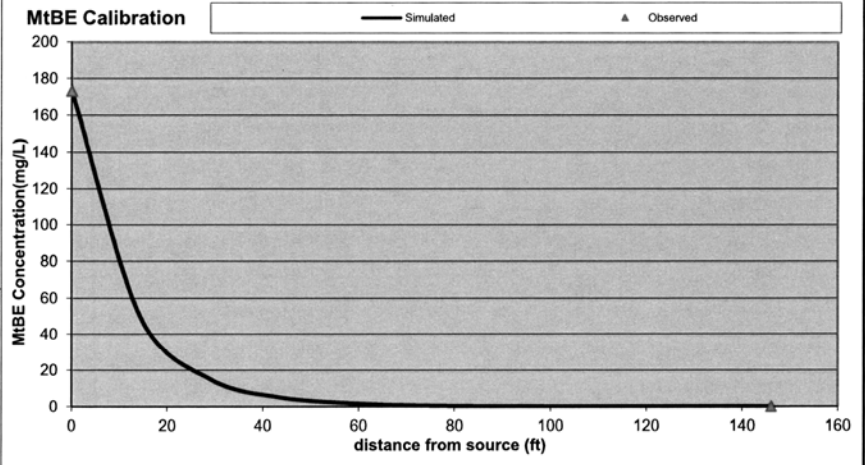
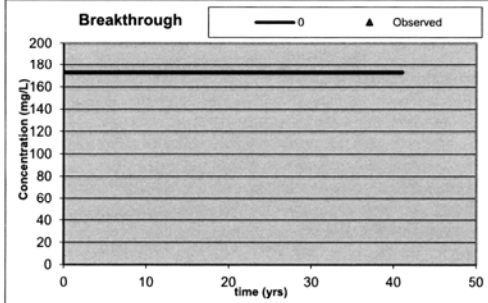
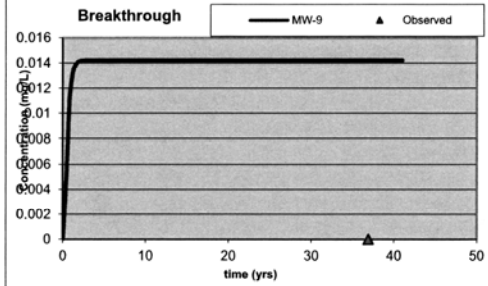
Xylenes Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	10628
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9		0		Site Name	Shreejakshani, LLC
			t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	
0	21.68	21.68	0		0		21.68	Model Calibration Parameters t _{1/2} 1.5 yrs λ 0.462 yr ⁻¹ v _x 26.60529 ft/yr R 8.449 v _R 3.149 ft/yr C _{source} 21.68 mg/L L _p 146 ft α _x 9.098951 ft t _{sim} 41 yrs α _y 7.279161 ft α _z 1E-99 ft
14.6		4.468	4.1		0.001		21.680	
29.2		1.012	8.2		0.001		21.680	
43.8		0.251	12.3		0.001		21.680	
58.4		0.065	16.4		0.001		21.680	
73		0.017	20.5		0.001		21.680	
87.6		0.005	24.6		0.001		21.680	
102.2		0.001	28.7		0.001		21.680	
116.8		0.000	32.8		0.001		21.680	
131.4		0.000	36.9	ND	0.001		21.680	
146	0.005	0.000	41		0.001		21.680	



Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	2.6481E-05	0.00153193	0.00277491	0.00205028	0.00104719	0.0004432	0.000168	5.97E-05	2.02E-05	6.65E-06
40	0.27655215	0.20656736	0.08220417	0.02758034	0.00864251	0.0026211	0.000781	0.000231	6.76E-05	1.98E-05
0	4.46757768	1.01180624	0.25130751	0.06531011	0.01743228	0.0047355	0.001303	0.000362	0.000101	2.84E-05
40	0.27655215	0.20656736	0.08220417	0.02758034	0.00864251	0.0026211	0.000781	0.000231	6.76E-05	1.98E-05
80	2.6481E-05	0.00153193	0.00277491	0.00205028	0.00104719	0.0004432	0.000168	5.97E-05	2.02E-05	6.65E-06

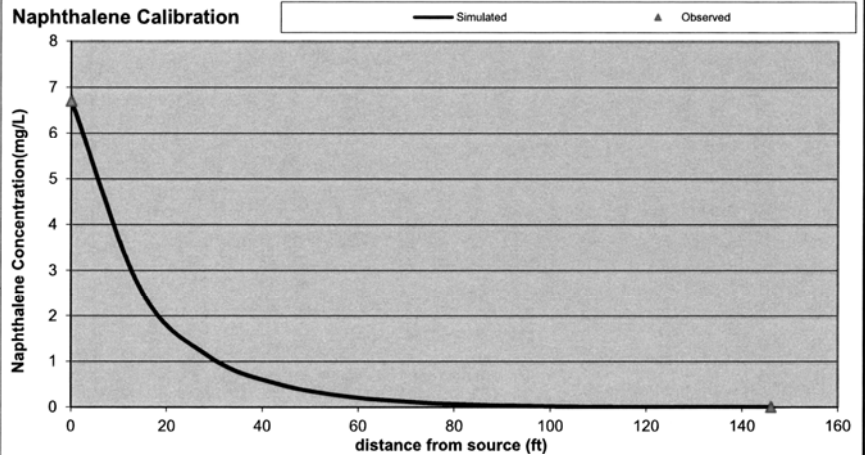
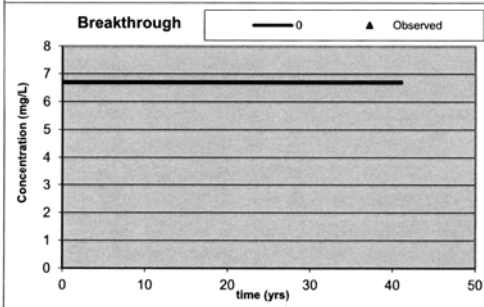
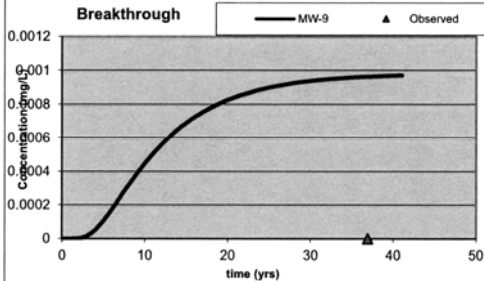
MtBE Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	10628
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9		0		Site Name	Shreejakashani, LLC
			t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	
0	173	173	0		0		173	
14.6		48.406	4.1		0.014		173.000	
29.2		14.885	8.2		0.014		173.000	
43.8		5.020	12.3		0.014		173.000	
58.4		1.771	16.4		0.014		173.000	
73		0.642	20.5		0.014		173.000	
87.6		0.237	24.6		0.014		173.000	
102.2		0.088	28.7		0.014		173.000	
116.8		0.033	32.8		0.014		173.000	
131.4		0.013	36.9	ND	0.014		173.000	
146	0.005	0.005	41		0.014		173.000	

Model Calibration Parameters			
t _{1/2}	0.3 yrs	λ	2.31 yr ⁻¹
v _x	26.60529 ft/yr		
R	1.128		
v _R	23.581 ft/yr	C _{source}	173 mg/L
L _p	146 ft	t _{sim}	41 yrs
α _x	9.098951 ft		
α _y	7.279161 ft		
α _z	1E-99 ft		



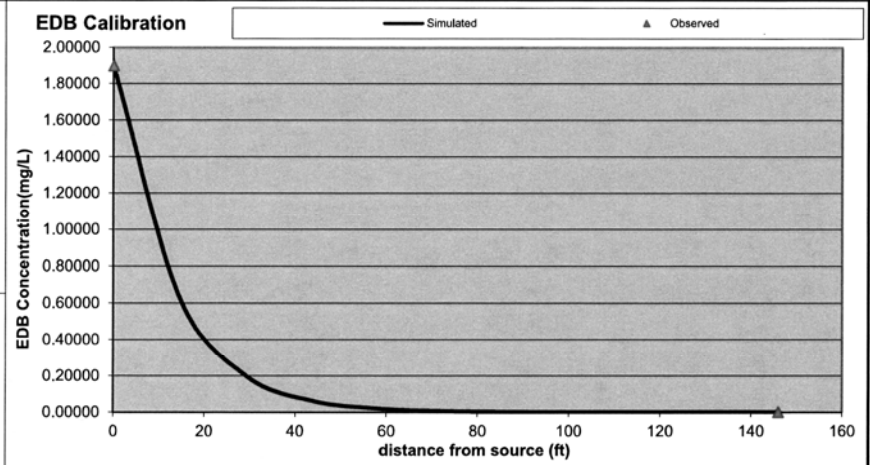
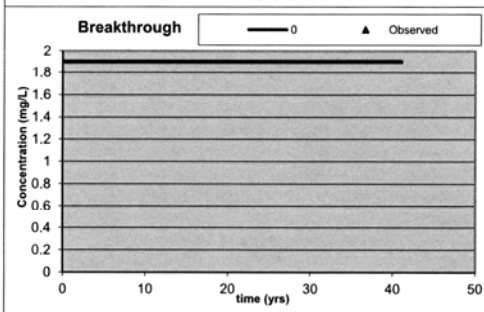
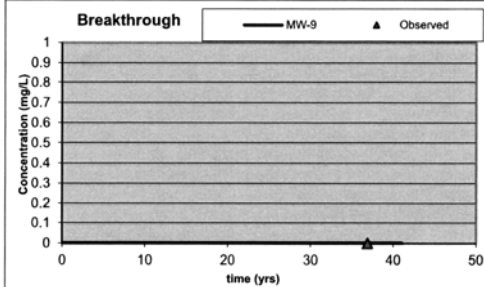
Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	0.00028692	0.02253746	0.05543089	0.05561046	0.03856613	0.0221602	0.011424	0.005502	0.002533	0.00113
40	2.9964208	3.03897007	1.64209213	0.74806992	0.31828896	0.1310682	0.053042	0.021255	0.008468	0.003361
0	48.4058535	14.8854534	5.02006257	1.77142598	0.64200118	0.236805	0.088442	0.03334	0.012659	0.004834
40	2.9964208	3.03897007	1.64209213	0.74806992	0.31828896	0.1310682	0.053042	0.021255	0.008468	0.003361
80	0.00028692	0.02253746	0.05543089	0.05561046	0.03856613	0.0221602	0.011424	0.005502	0.002533	0.00113

Naphthalene Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	10628
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9		0		Site Name	Shreejakashani, LLC
			t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	
0	6.7	6.7	0		0		6.7	Model Calibration Parameters t _{1/2} 9 yrs λ 0.077 yr ⁻¹ v _s 26.60529 ft/yr R 18.987 v _R 1.401 ft/yr C _{source} 6.7 mg/L L _p 146 ft α _x 9.098951 ft t _{sim} 41 yrs α _y 7.279161 ft α _z 1E-99 ft
14.6		2.582	4.1		0.000		6.700	
29.2		1.087	8.2		0.000		6.700	
43.8		0.493	12.3		0.001		6.700	
58.4		0.226	16.4		0.001		6.700	
73		0.100	20.5		0.001		6.700	
87.6		0.041	24.6		0.001		6.700	
102.2		0.016	28.7		0.001		6.700	
116.8		0.005	32.8		0.001		6.700	
131.4		0.001	36.9	ND	0.001		6.700	
146	ND	0.000	41		0.001		6.700	



Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	1.5307E-05	0.00164585	0.00544331	0.00708688	0.00600951	0.0038736	0.002004	0.000848	0.000295	8.46E-05
40	0.15985478	0.22192808	0.16125342	0.0953324	0.04959687	0.0229104	0.009303	0.003275	0.000986	0.000252
0	2.58238333	1.08704593	0.49297005	0.22574667	0.10003881	0.0413929	0.015512	0.005136	0.001475	0.000362
40	0.15985478	0.22192808	0.16125342	0.0953324	0.04959687	0.0229104	0.009303	0.003275	0.000986	0.000252
80	1.5307E-05	0.00164585	0.00544331	0.00708688	0.00600951	0.0038736	0.002004	0.000848	0.000295	8.46E-05

EDB Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 10628	
x	C _{obs} (mg/L)	C _{sim} (mg/L)	MW-9		0		Site Name Shreejakshani, LLC	
			t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	
0	1.9	1.90000	0		0.00000		1.90000	Model Calibration Parameters t _{1/2} 0.27 yrs λ 2.56667 yr ⁻¹ v _x 26.60529 ft/yr R 1.326 v _R 20.058 ft/yr C _{source} 1.9 mg/L L _p 146 ft t _{sim} 41 yrs α _x 9.098951 ft α _y 0.909895 ft α _z 1E-99 ft
14.6		0.62643	4.1		0.00000		1.90000	
29.2		0.19979	8.2		0.00000		1.90000	
43.8		0.06244	12.3		0.00000		1.90000	
58.4		0.01946	16.4		0.00000		1.90000	
73		0.00608	20.5		0.00000		1.90000	
87.6		0.00191	24.6		0.00000		1.90000	
102.2		0.00060	28.7		0.00000		1.90000	
116.8		0.00019	32.8		0.00000		1.90000	
131.4		0.00006	36.9	ND	0.00000		1.90000	
146	0.00002	0.00002	41		0.00000		1.90000	



Source	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
80	0	0	1.1441E-14	3.2788E-12	6.4268E-11	3.281E-10	7.74E-10	1.13E-09	1.19E-09	9.97E-10
40	3.8786E-07	6.2886E-05	0.00017577	0.00017432	0.00011335	5.946E-05	2.75E-05	1.18E-05	4.77E-06	1.86E-06
0	0.62643063	0.19979365	0.06244076	0.01946036	0.00608168	0.0019084	0.000601	0.00019	6.04E-05	1.92E-05
40	3.8786E-07	6.2886E-05	0.00017577	0.00017432	0.00011335	5.946E-05	2.75E-05	1.18E-05	4.77E-06	1.86E-06
80	0	0	1.1441E-14	3.2788E-12	6.4268E-11	3.281E-10	7.74E-10	1.13E-09	1.19E-09	9.97E-10

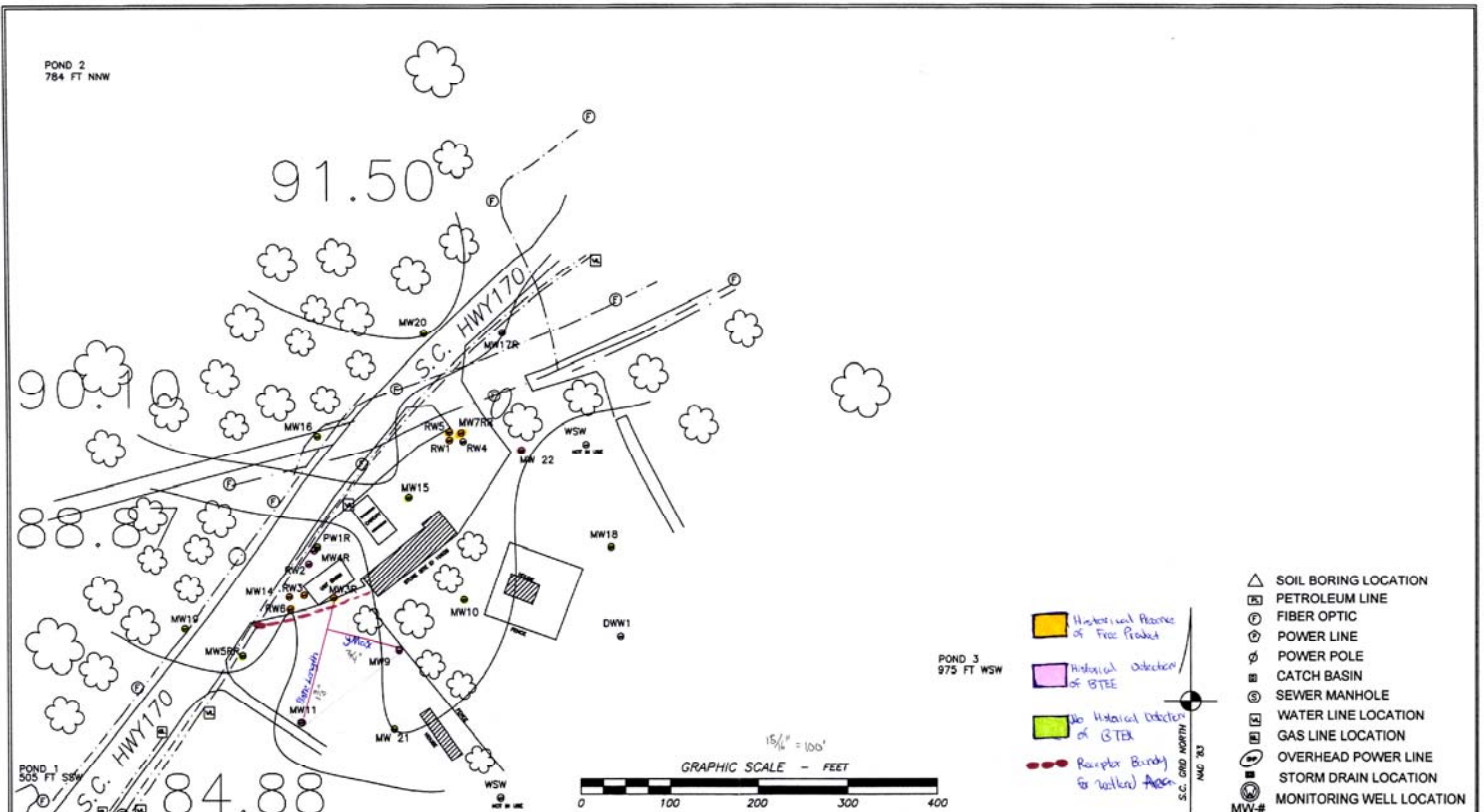
SSTLs

t 1000 yrs

UST Permit # 10628
Site Name: Shreejakshani, LLC

SSTLs in mg/L		RBSLs (mg/L):			0.005	1.000	0.700	10.000	0.040	0.025	0.00005
MW #	x (ft)	y (ft)	z (ft)	Benzene	Toluene	Ethylbenzene	Xylenes	MtBE	Naphthalene	EDB	
MW-3R	5		0	0.007	1.216	0.835	15.175	0.055	0.031	0.00007	
MW-4R	71	0	0	0.259	19.859	10.610	4590.372	4.149	0.535	0.01332	
MW-14	25	0	0	0.019	2.735	1.740	82.629	0.196	0.070	0.00034	
RW-2	58	0	0	0.124	11.338	6.365	1474.704	1.750	0.301	0.00473	
RW-3	25	0	0	0.019	2.735	1.740	82.629	0.196	0.070	0.00034	
RW-6	7	0	0	0.007	1.316	0.897	17.930	0.062	0.033	0.00008	
λ (yr ⁻¹):				1.066	0.554	0.408	0.462	2.310	0.077	2.567	
R:				1.944	2.550	3.052	8.449	1.128	18.987	1.326	
Pure Substance Solubility:				1750	526	169	175	5110	31	4321	
Effective Solubility:				44.39	26.54	3.7	21.68	173	6.7	1.9	

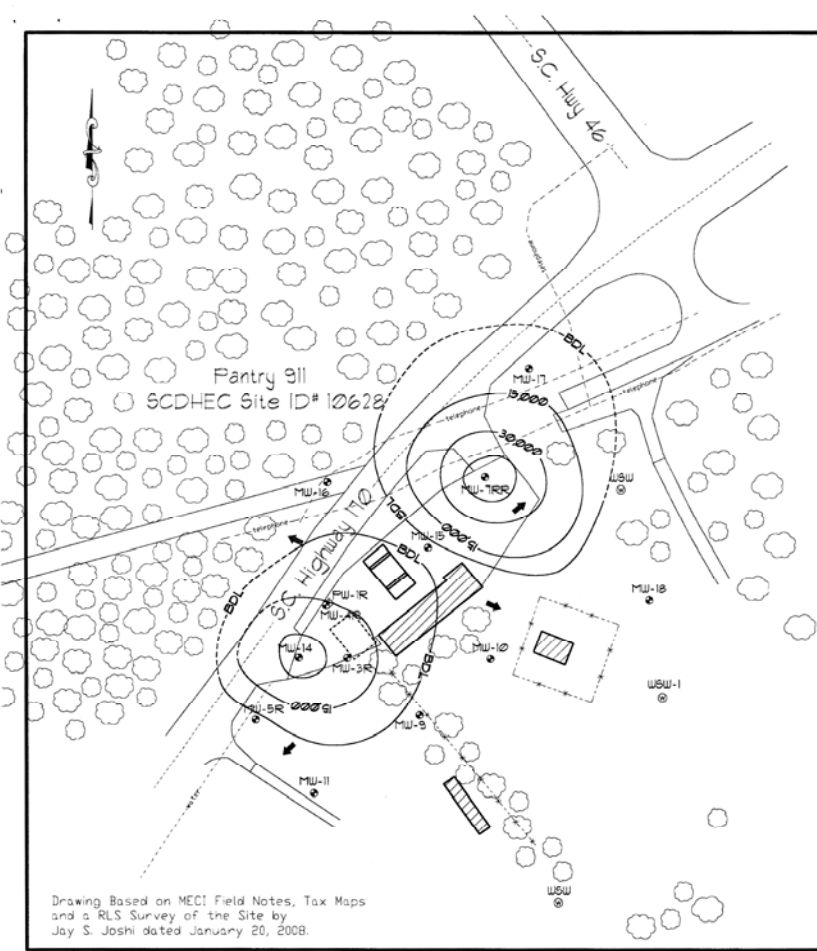
APPENDIX



KATAWBA ENVIRONMENTAL, INC.
 4278 DYE ROAD
 EDMOOR, SC 29712
 (803)327-0469 UCC#18

SAMPLING REPORT
 SHREEJAKSHANI, LLC SITE ID 10628
 6195 S OKATIE HWY, HARDEEVILLE, SC

FIGURE 3
 PIEZOMETRIC MAP



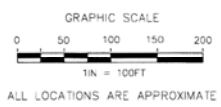
Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated January 20, 2008.

Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Total BTEX Concentration Isoleth (ug/l)

COC Concentration Data								
Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	EDB (ug/l)
MW-2	NL	NL	NL	NL	NL	NL	NL	NL
MW-3R	2,700	9,080	1,410	11,000	24,190	2,580	748	<0.19
MW-4R	4,640	5,070	1,360	3,990	15,060	21,000	<1,000	<0.020
MW-5R	<5.0	<5.0	<5.0	<10.0	BDL	2.3J	<5.0	<0.020
MW-7RR	17,500	22,700	1,850	10,900	52,950	<1,000	<1,000	1.5
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	3.8J	<5.0	<0.019
MW-11	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019
MW-14	11,800	13,700	2,420	11,000	38,920	4,020	<500	<0.020
MW-15	<5.0	<5.0	<5.0	<10.0	BDL	2.8J	<5.0	<0.019
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.021
MW-17	39.1	<5.0	<5.0	<10.0	39.1	<5.0	<5.0	<0.023
MW-18	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.023
PW-1R	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019
WSW-1	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019

Notes: Groundwater samples collected January 8, 2009.
 BDL = Below Detection Limits
 Contour Interval = 15,000 ug/l
 "J" Values included in Contouring
 Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.



Total BTEX Isoleth Map

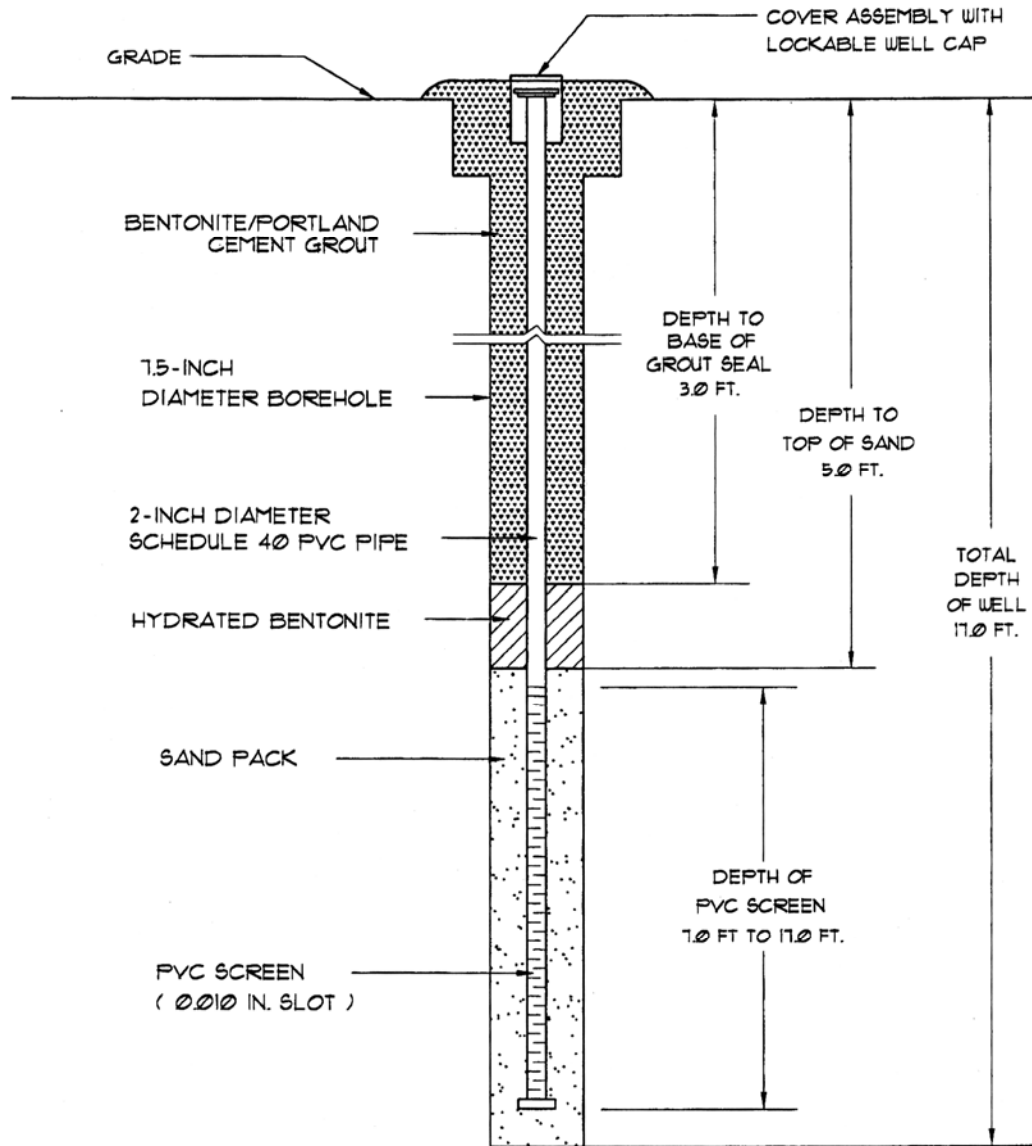
Pantry 311
 Hardieville, South Carolina
 SCDHEC Site ID 10628

Midlands Environmental Consultants, Inc.

JOB NO. CE-1835
 DATE January 30, 2008
 FIGURE 4

MONITORING WELL INSTALLATION RECORD

Pantry 911
 Hardeeville, South Carolina
 SCDHEC Site ID# 10628
 MECI Project Number 08-1835



Well Number:	MW-16
Date Drilled:	12/31/08
Drilled By:	Geologic Exploration Inc.
Driller: J. Hess	S.C. I.D. #: D 01929
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

Depth (Feet)	Description	OVA PPM	Well Diagram	Penetration Blows Per Foot														
				0	5	10	20	40	60	80	100							
0 - 1.5	Grass and Topsoil																	
1.5 - 5.0	Black and Orange. Fine Sandy CLAY																	
5.0 - 13.0	Tan, Silty Fine to Medium SAND	BDL																
13.0 - 35.0	Boring Terminated at 13.0 Feet. Monitoring Well Installed to 13.0 Feet. Groundwater Measured 5.88 Feet Below Top of Casing on 1/8/2009.	BDL																

NO BLOWCOUNTS RECORDED

TEST BORING RECORD
 Pantry 911
 Hardeeville, South Carolina
 SCDHEC Site ID* 10628
 MECI Project Number 08-1835

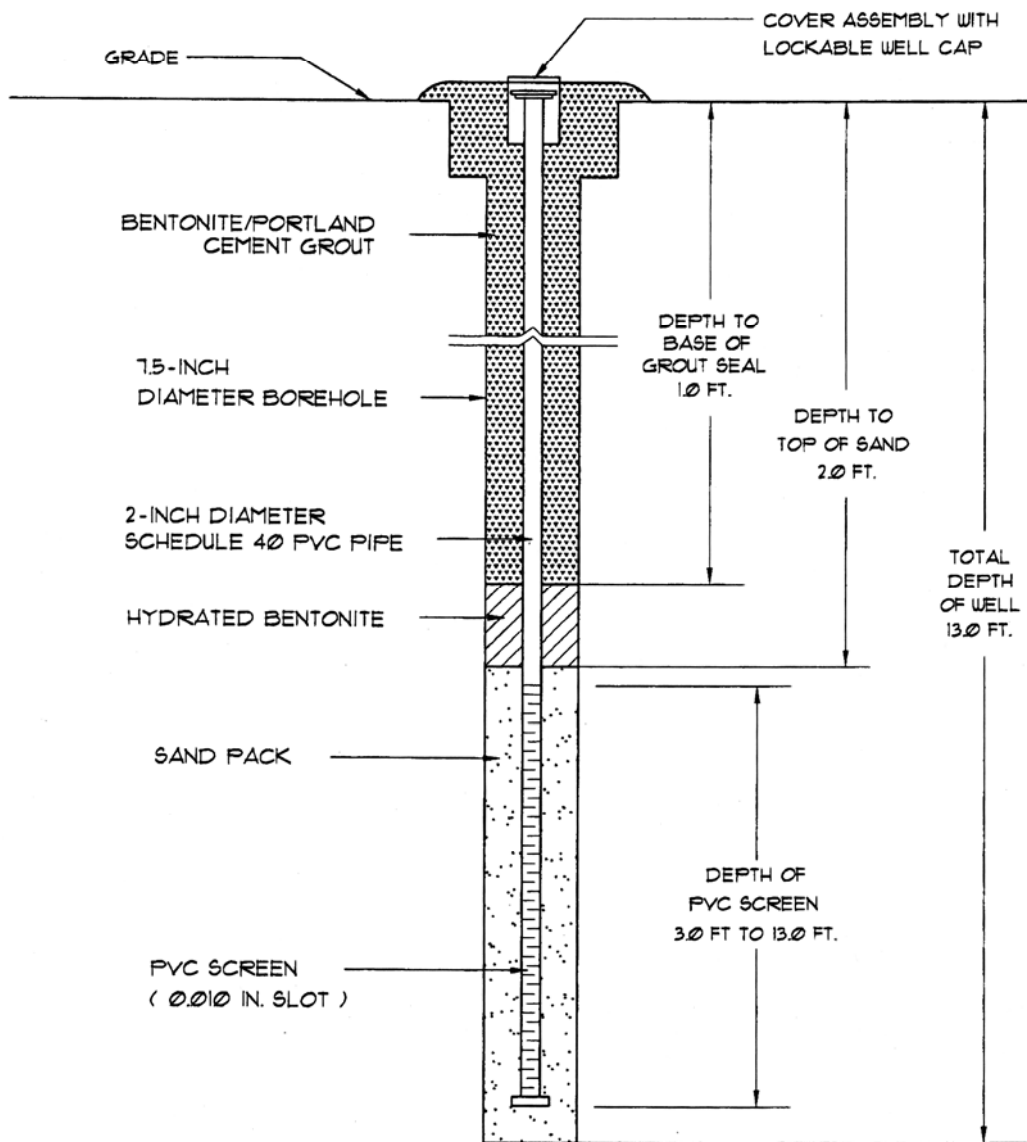
Boring Number: MW-17
 Date Drilled: 12/31/08
 Drilled By: Geologic Exploration Inc.
 Logged By: J. Coleman

Prepared By:

 Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29013
 (803) 808-2043 fax: 808-2048

MONITORING WELL INSTALLATION RECORD

Pantry 911
 Hardeeville, South Carolina
 SCDHEC Site ID* 10628
 MECI Project Number 08-1835



Well Number:	MW-17
Date Drilled:	12/31/08
Drilled By:	Geologic Exploration Inc.
Driller: J. Hess	S.C. I.D. #: D 01929
Logged By:	J. Coleman

Prepared By:
Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048

Depth (Feet)	Description	OVA PPM	Well Diagram 0	Penetration Blows Per Foot													
				5	10	20	40	60	80	100							
0	Grass and Topsoil																
0	Orange, Clayey Fine to Medium SAND																
5		BDL															
5	Tan and Brown, Silty Fine to Medium SAND																
10		BDL															
10		BDL															
12	Boring Terminated at 12.0 Feet. Monitoring Well Installed to 12.0 Feet. Groundwater Measured 2.48 Feet Below Top of Casing on 1/8/2009.																
15																	
20																	
25																	
30																	
35																	

TEST BORING RECORD
 Pantry 911
 Hardeeville, South Carolina
 SCDHEC Site ID* 10628
 MECI Project Number 08-1835

Boring Number:	MW-18
Date Drilled:	12/31/08
Drilled By:	Geologic Exploration Inc.
Logged By:	J. Coleman

Prepared By:
 Midlands Environmental Consultants, Inc.
 235-B Dooley Road
 Lexington, South Carolina 29073
 (803) 808-2043 fax: 808-2048



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S1

Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL CC: ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS

Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

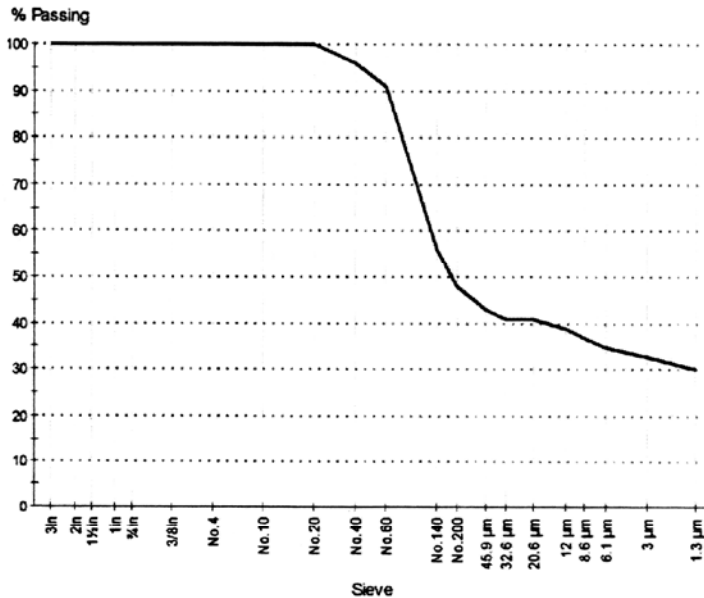
Sample Details

Sample ID: 0451102-67-S1
Client Sample ID: Okatie Mart SB1 8FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 8FT

Sample Description:

Tan Silty, Clayey SAND (SC-SM)

Particle Size Distribution



Grading: ASTM D 422

Drying By: Oven
Date Tested: 11/23/2021
Tested By: Marie Benoit

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2in (50.0mm)	100	
1 1/2in (37.5mm)	100	
1in (25.0mm)	100	
3/4in (19.0mm)	100	
3/8in (9.5mm)	100	
No. 4 (4.75mm)	100	
No. 10 (2.0mm)	100	
No. 20 (850µm)	100	
No. 40 (425µm)	96	
No. 60 (250µm)	91	
No. 100 (150µm)	85	
No. 200 (75µm)	65	
45.9 µm	55	
32.6 µm	45	
20.6 µm	40	
12.0 µm	38.9	
8.6 µm	36.9	
6.1 µm	34.7	
3.0 µm	32.7	
1.3 µm	29.9	

COBBLES	GRAVEL		SAND			FINES	
	(0.0%)	Coarse (0.0%)	Coarse (0.0%)	Medium (3.7%)	Fine (48.5%)	Silt (13.8%)	Clay (34.0%)

D85: 0.2158 D60: 0.1169 D50: 0.0818
D30: 0.0013 D15: N/A D10: N/A



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S1

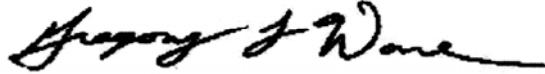
Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL CC: ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS



Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S1
Client Sample ID: Okatie Mart SB1 8FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 8FT

Other Test Results

Description	Method	Result	Limits
Dispersion device	ASTM D 422	Dispersant by hand	
Dispersion time (min)		1	
Shape			
Hardness			
Fm		N/A	
Cu		N/A	
Cc		N/A	
CuS		2.00	
CcS		0.93	
Dm (mm)		N/A	
U-Number		65	
D50S (mm)		0.163	
D50G (mm)		N/A	

Comments

N/A



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S2

Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL CC: ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS

Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

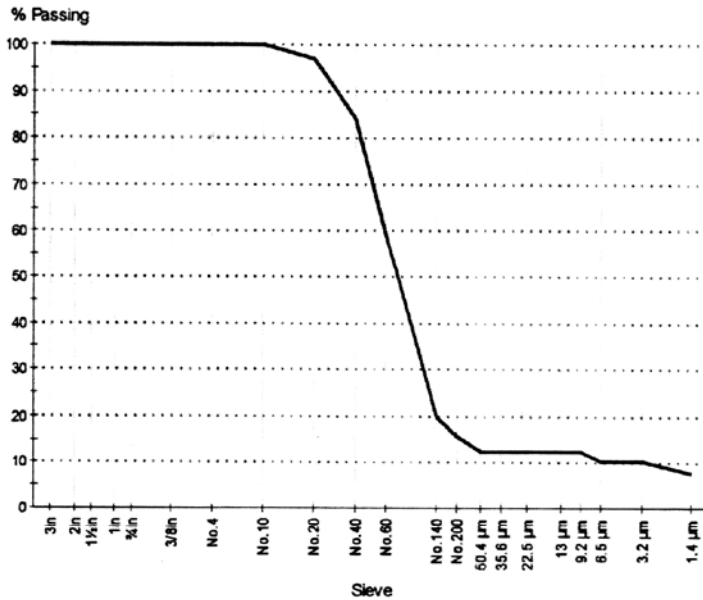
Sample Details

Sample ID: 0451102-67-S2
Client Sample ID: Okatie Mart SB1 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 15FT

Sample Description:

Tan Silty, Clayey SAND (SC-SM)

Particle Size Distribution



Grading: ASTM D 422

Date Tested: 11/23/2021
Tested By: Marie Benoit

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2in (50.0mm)	100	
1 1/2in (37.5mm)	100	
1in (25.0mm)	100	
3/4in (19.0mm)	100	
3/8in (9.5mm)	100	
No. 4 (4.75mm)	100	
No. 10 (2.0mm)	100	
No. 20 (850µm)	97	
No. 40 (425µm)	84	
No. 60 (250µm)	59	
No. 100 (106µm)	20	
No. 200 (75µm)	16	
50.4 µm	12.6	
35.6 µm	12.6	
22.5 µm	12.6	
13.0 µm	12.6	
9.2 µm	12.6	
6.5 µm	10.6	
3.2 µm	10.5	
1.4 µm	7.9	

COBBLES	GRAVEL		SAND			FINES	
	(0.0%)	Coarse (0.0%)	Coarse (0.1%)	Medium (16.2%)	Fine (67.6%)	Silt (5.5%)	Clay (10.6%)

D85: 0.4483 D60: 0.2554 D50: 0.2051
D30: 0.1321 D15: 0.0667 D10: 0.0027
Cu: 93.55 Cc: 25.03



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
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Report No: MAT:0451102-67-S2

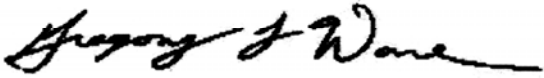
Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL **CC:** ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS



Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S2
Client Sample ID: Okatie Mart SB1 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB1 15FT

Other Test Results

Description	Method	Result	Limits
Dispersion device	ASTM D 422	Dispersant by hand	
Dispersion time (min)		1	
Shape			
Hardness			
Fm		N/A	
Cu		93.55	
Cc		25.03	
CuS		2.47	
CcS		0.83	
Dm (mm)		0.240	
U-Number		47	
D50S (mm)		0.242	
D50G (mm)		3.082	

Comments

N/A



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
Columbia, SC 29210

Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S3

Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL CC: ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS

Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

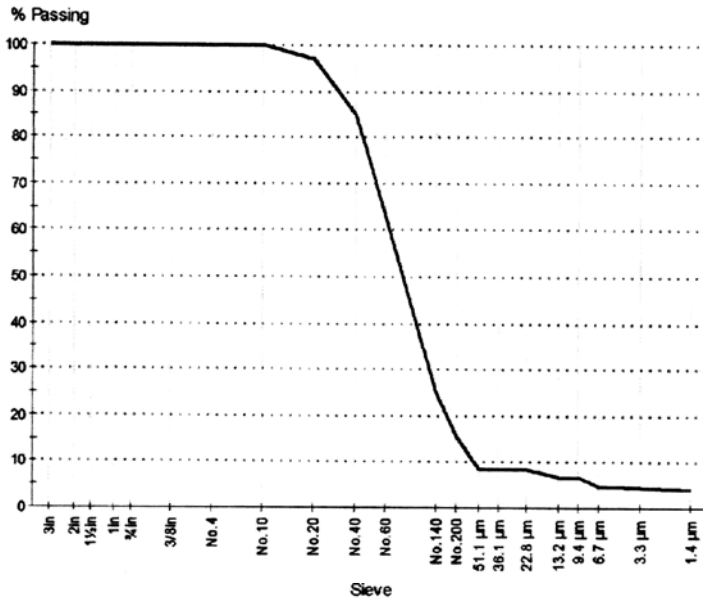
Sample Details

Sample ID: 0451102-67-S3
Client Sample ID: Okatie Mart SB2 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB2 15FT

Sample Description:

Tan Silty, Clayey SAND (SC-SM)

Particle Size Distribution



Grading: ASTM D 422

Drying By: Oven
Date Tested: 11/23/2021
Tested By: Marie Benoit

Sieve Size	% Passing	Limits
3in (75.0mm)	100	
2in (50.0mm)	100	
1 1/2in (37.5mm)	100	
1in (25.0mm)	100	
3/4in (19.0mm)	100	
3/8in (9.5mm)	100	
No. 4 (4.75mm)	100	
No. 10 (2.0mm)	100	
No. 20 (850µm)	97	
No. 40 (425µm)	85	
No. 60 (250µm)	63	
No. 100 (150µm)	25	
No. 200 (75µm)	16	
51.1 µm	8.6	
36.1 µm	8.6	
22.8 µm	8.6	
13.2 µm	6.6	
9.4 µm	6.6	
6.7 µm	4.7	
3.3 µm	4.5	
1.4 µm	3.9	

COBBLES	GRAVEL		SAND			FINES	
	Coarse (0.0%)	Fine (0.3%)	Coarse (0.1%)	Medium (14.8%)	Fine (68.6%)	Silt (11.7%)	Clay (4.6%)
(0.0%)	(0.0%)	(0.3%)	(0.1%)	(14.8%)	(68.6%)	(11.7%)	(4.6%)

D85: 0.4250 D60: 0.2336 D50: 0.1864
D30: 0.1187 D15: 0.0712 D10: 0.0549
Cu: 4.25 Cc: 1.10



Professional Service Industries, Inc.
534 St. Andrews Road, Suite C
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Phone: (803) 776-6050
Fax: (803) 772-2803

Report No: MAT:0451102-67-S3

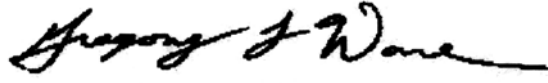
Issue No: 1

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Material Test Report

Client: KATAWBA ENVIRONMENTAL **CC:** ALEX AMOS
POST OFFICE BOX 11228
ROCK HILL, SC 29731

Project: GRAIN SIZE ANALYSIS



Approved Signatory: Gregory Ware (Project Manager)
Date of Issue: 12/10/2021

Sample Details

Sample ID: 0451102-67-S3
Client Sample ID: Okatie Mart SB2 15FT
Date Sampled: 11/05/21
Sampled By: Client
Specification: D422/T88 Part. Size Analysis (Set #1)
Supplier:
Source:
Material:
Sampling Method:
Soil Description: Tan Silty, Clayey SAND (SC-SM)
General Location: Okatie Mart
Location: SB2 15FT

Other Test Results

Description	Method	Result	Limits
Dispersion device	ASTM D 422	Dispersant by hand	
Dispersion time (min)		1	
Shape			
Hardness			
Fm		N/A	
Cu		4.25	
Cc		1.10	
CuS		2.56	
CcS		0.83	
Dm (mm)		0.230	
U-Number		51	
D50S (mm)		0.223	
D50G (mm)		5.963	

Comments

N/A

**TABLE 2
 POTENTIOMETRIC DATA
 FEBRUARY 5, 2020 SAMPLING EVENT
 SHREEJAKSHANI / PANTRY 911
 HARDEEVILLE, SOUTH CAROLINA
 MECI PROJECT NUMBER 19-7148
 SCDHEC SITE ID NUMBER 10628**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-3R	1/8/2009	2-12	-	3.02	-	94.56	91.54
	7/25/2012		-	2.91	-	94.56	91.65
	6/27/2013		-	3.16	-	94.56	91.40
	7/10/2014		-	3.26	-	94.56	91.30
	10/27/2015		-	3.34	-	94.56	91.22
	9/7/2017*		2.45	2.86	0.41	94.56	92.05
	8/27/2018		2.28	2.32	0.04	94.56	92.27
	2/5/2020		1.75	3.91	2.16	94.56	92.81
MW-4R	1/8/2009	5-15	-	4.29	-	93.75	89.46
	7/25/2012		-	7.61	-	93.75	86.14
	6/27/2013		-	3.99	-	93.75	89.76
	7/10/2014		-	3.40	-	93.75	90.35
	10/27/2015		-	2.80	-	93.75	90.95
	9/7/2017		-	2.59	-	93.75	91.16
	8/27/2018		-	2.18	-	93.75	91.57
	2/5/2020		-	3.30	-	93.75	90.45
MW-5R	1/8/2009	5-15	-	3.00	-	91.70	88.70
	7/25/2012		-	7.35	-	91.70	84.35
MW-5RR	6/27/2013	2-12	-	3.20	-	92.18	88.98
	7/10/2014		-	4.86	-	92.18	87.32
	10/27/2015		-	2.85	-	92.18	89.33
	9/7/2017		-	2.24	-	92.18	89.94
	8/27/2018		-	1.41	-	92.18	90.77
	2/5/2020		-	1.70	-	92.18	90.48
MW-7RR	1/8/2009	2-12	-	6.38	-	95.80	89.42
	7/25/2012*		10.61	10.72	0.11	95.80	85.17
	6/27/2013*		6.32	6.34	0.02	95.80	89.46
	7/10/2014*		8.65	8.78	0.13	95.80	87.13
	10/27/2015		-	9.10	-	95.80	86.70
	9/7/2017*		5.34	5.40	0.06	95.80	90.45
	8/27/2018		4.87	4.86	0.01	95.80	90.93
	2/5/2020		4.98	4.89	0.01	95.80	90.82
MW-9	1/8/2009	8-18	-	6.09	-	96.73	90.64
	7/25/2012		-	NL	-	96.73	NL
	6/27/2013		-	5.05	-	96.73	91.68
	7/10/2014		-	7.53	-	96.73	89.20
	10/27/2015		-	6.13	-	96.73	90.60
	9/7/2017		-	4.85	-	96.73	91.88
	8/27/2018		-	4.50	-	96.73	92.23
	2/5/2020		-	4.52	-	96.73	92.21

TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-10	1/8/2009	2-12	-	4.36	-	93.29	88.93
	7/25/2012		-	NL	-	93.29	NL
	6/27/2013		-	3.81	-	93.29	89.48
	7/10/2014		-	6.49	-	93.29	86.80
	10/27/2015		-	NL	-	93.29	NL
	9/7/2017		-	2.42	-	93.29	90.87
	8/27/2018		-	1.95	-	93.29	91.34
	2/5/2020		-	NL	-	93.29	NL
MW-11	1/8/2009	2-12	-	1.45	-	91.62	90.17
	7/25/2012		-	3.90	-	91.62	87.72
	6/27/2013		-	0.41	-	91.62	91.21
	7/10/2014		-	3.63	-	91.62	87.99
	10/27/2015		-	1.72	-	91.62	89.90
	9/7/2017		-	NL	-	91.62	NL
	8/27/2018		-	0.59	-	91.62	91.03
	2/5/2020		-	NL	-	91.62	NL
MW-14	1/8/2009	3.05-13.05	-	2.23	-	93.23	91.00
	7/25/2012		-	2.29	-	93.23	90.94
	6/27/2013		-	1.30	-	93.23	91.93
	7/10/2014		-	1.81	-	93.23	91.42
	10/27/2015		-	1.76	-	93.23	91.47
	9/7/2017		-	1.17	-	93.23	92.08
	8/27/2018		-	0.83	-	93.23	92.40
	2/5/2020		-	1.39	-	93.23	91.84
MW-15	1/8/2009	2-12	-	4.50	-	96.12	91.62
	7/25/2012		-	4.80	-	96.12	91.32
	6/27/2013		-	3.52	-	96.12	92.60
	7/10/2014		-	3.97	-	96.12	92.15
	10/27/2015		-	6.93	-	96.12	89.19
	9/7/2017		-	3.01	-	96.12	93.11
	8/27/2018		-	2.51	-	96.12	93.61
	2/5/2020		-	2.79	-	96.12	93.33
MW-16	1/8/2009	7-17	-	8.11	-	97.02	88.91
	7/25/2012		-	12.83	-	97.02	84.19
	6/27/2013		-	8.41	-	97.02	88.61
	7/10/2014		-	10.30	-	97.02	86.72
	10/27/2015		-	5.89	-	97.02	91.13
	9/7/2017		-	5.38	-	97.02	91.64
	8/27/2018		-	7.83	-	97.02	89.19
	2/5/2020		-	6.62	-	97.02	90.40

**TABLE 2
 POTENTIOMETRIC DATA
 FEBRUARY 5, 2020 SAMPLING EVENT
 SHREEJAKSHANI / PANTRY 911
 HARDEEVILLE, SOUTH CAROLINA
 MECI PROJECT NUMBER 19-7148
 SCDHEC SITE ID NUMBER 10628**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
MW-17	1/8/2009	3-13	-	5.88	-	94.96	89.08
	7/25/2012		-	9.49	-	94.96	85.47
	6/27/2013		-	5.35	-	94.96	89.61
	7/10/2014		-	NL	-	94.96	NL
	10/27/2015		-	NL	-	94.96	NL
	9/7/2017		-	NL	-	94.96	NL
	8/27/2018		-	4.14	-	94.96	90.62
	2/5/2020		-	4.00	-	94.96	90.96
MW-18	1/8/2009	2-12	-	2.48	-	91.34	88.86
	7/25/2012		-	NL	-	91.34	NL
	6/27/2013		-	2.87	-	91.34	88.47
	7/10/2014		-	3.87	-	91.34	87.47
	10/27/2015		-	1.85	-	91.34	89.49
	9/7/2017		-	1.17	-	91.34	90.17
	8/27/2018		-	1.00	-	91.34	90.34
	2/5/2020		-	0.00	-	91.34	91.34
MW-19	6/27/2013	2-12	-	4.14	-	93.01	88.87
	7/10/2014		-	6.69	-	93.01	86.32
	10/27/2015		-	4.20	-	93.01	88.61
	9/7/2017		-	4.12	-	93.01	88.89
	8/27/2018		-	2.49	-	93.01	90.52
	2/5/2020		-	2.65	-	93.01	90.36
MW-20	6/27/2013	4-14	-	9.14	-	98.84	89.70
	7/10/2014		-	11.17	-	98.84	87.67
	10/27/2015		-	8.55	-	98.84	90.29
	9/7/2017		-	5.90	-	98.84	92.94
	8/27/2018		-	7.98	-	98.84	90.86
	2/5/2020		-	8.22	-	98.84	90.62
PW-1R	1/8/2009	30-35	-	4.57	-	93.47	88.90
	7/25/2012		-	9.59	-	93.47	83.88
	6/27/2013		-	4.80	-	93.47	88.67
	7/10/2014		-	6.29	-	93.47	87.18
	10/27/2015		-	4.15	-	93.47	89.32
	9/7/2017		-	3.49	-	93.47	89.98
	8/27/2018		-	3.04	-	93.47	90.43
	2/5/2020		-	3.39	-	93.47	90.08

**TABLE 2
POTENTIOMETRIC DATA
FEBRUARY 5, 2020 SAMPLING EVENT
SHREEJAKSHANI / PANTRY 911
HARDEEVILLE, SOUTH CAROLINA
MECI PROJECT NUMBER 19-7148
SCDHEC SITE ID NUMBER 10628**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well-head Elevation	Groundwater Elevation
RW-1	7/25/2012	2-12	-	10.53	-	96.15	85.62
	6/27/2013		-	6.47	-	96.15	89.68
	7/10/2014*		8.77	8.92	0.15	96.15	87.36
	10/27/2015*		6.20	6.22	0.02	96.15	89.95
	9/7/2017*		5.42	5.44	0.02	96.15	90.73
	8/27/2018		4.70	4.75	0.05	96.15	91.44
	2/5/2020		5.07	5.11	0.04	96.15	91.08
RW-2	7/25/2012	2-12	-	2.59	-	93.56	90.97
	6/27/2013		-	2.19	-	93.56	91.37
	7/10/2014		-	2.04	-	93.56	91.52
	10/27/2015		-	1.42	-	93.56	92.14
	9/7/2017		-	0.97	-	93.56	92.59
	8/27/2018		-	0.89	-	93.56	92.67
	2/5/2020		-	1.01	-	93.56	92.55
RW-3	7/25/2012*	2-12	2.56	2.61	0.05	93.22	90.65
	6/27/2013*		1.32	1.44	0.12	93.22	91.88
	7/10/2014		-	1.74	-	93.22	91.48
	10/27/2015		-	1.82	-	93.22	91.40
	9/7/2017*		0.58	1.10	0.52	93.22	92.56
	8/27/2018		1.01	1.51	0.50	93.22	92.14
	2/5/2020		1.43	3.74	2.31	93.22	91.78
RW-4	10/27/2015	2-15	-	6.30	-	96.05	89.75
	9/7/2017		-	5.51	-	96.05	90.54
	8/27/2018		-	5.12	-	96.05	90.93
	2/5/2020		-	5.28	-	96.05	90.77
RW-5	10/27/2015	2-15	-	5.95	-	95.60	89.65
	9/7/2017		-	5.13	-	95.60	90.47
	8/27/2018		4.81	4.83	0.02	95.60	90.79
	2/5/2020		4.99	5.24	0.25	95.60	90.61
RW-6	10/27/2015*	2-15	2.20	2.35	0.15	93.07	90.85
	9/7/2017*		0.65	4.90	4.25	93.07	91.78
	8/27/2018		1.79	5.29	3.50	93.07	90.78
	2/5/2020		0.75	9.89	9.14	93.07	90.95

Notes:
1. Elevations are referenced to an assumed site datum
2. Groundwater depths were measured from the top of the PVC riser pipe
3. Groundwater levels measured 2/5/2020
4. NL = Not Located.

5. * = Groundwater elevation corrected for the presence of free phase petroleum product using a specific gravity for fuel of 0.85

