GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091107	MW-7	Water	01/06/2012 11:10	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 19:18	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.022	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091108	MW-8	Water	01/06/2012 12:20	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/09/2012 17:42	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**970**	**10**	**0.490**	**ug/L**
108-88-3	**Toluene**	**31.6**	**10**	**0.776**	**ug/L**
100-41-4	**Ethylbenzene**	**262**	**10**	**1.80**	**ug/L**
1330-20-7	**Xylene (total)**	**450**	**30**	**1.23**	**ug/L**
91-20-3	**Naphthalene**	**91.1**	**50**	1.75	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.839U	10	0.839	ug/L
107-06-2	1,2-Dichloroethane	1.21U	10	1.21	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	471	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	500	504	ug/L	101	77 - 127
2037-26-5	Toluene d8	500	484	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	563	ug/L	113	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	01/09/2012 17:42	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	10.5U	50	10.5	ug/L
75-65-0	t-Butanol (TBA)	2.90U	100	2.90	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**25.9J**	**50**	**1.05**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	11.1U	50	11.1	ug/L
624-95-3	ethyl tert-butanol (ETBA)	376U	1000	376	ug/L
64-17-5	Ethanol	818U	1000	818	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**4160**	**200**	**13.9**	**ug/L**
762-75-4	tert-butyl formate (TBF)	21.6U	50	21.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	471	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	500	504	ug/L	101	77 - 127
2037-26-5	Toluene d8	500	484	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	563	ug/L	113	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 11:16	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091108	MW-8	Water	01/06/2012 12:20	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 19:25	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091109	MW-8D	Water	01/05/2012 17:00	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 18:03	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	**Naphthalene**	**5.21**	**5**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**1.34**	**1**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	54.6	ug/L	109	77 - 127
2037-26-5	Toluene d8	50	47.8	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 18:03	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**2.74J**	**5**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**21.4**	**20**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	54.6	ug/L	109	77 - 127
2037-26-5	Toluene d8	50	47.8	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 11:38	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091109	MW-8D	Water	01/05/2012 17:00	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 19:32	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.11	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091110	MW-9	Water	01/06/2012 12:00	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 18:24	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	53.6	ug/L	107	77 - 127
2037-26-5	Toluene d8	50	47.7	ug/L	95	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.2	ug/L	96	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 18:24	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**10.5J**	**20**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	53.6	ug/L	107	77 - 127
2037-26-5	Toluene d8	50	47.7	ug/L	95	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.2	ug/L	96	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 12:00	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091110	MW-9	Water	01/06/2012 12:00	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 19:38	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.027	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091111	MW-3D	Water	01/05/2012 15:30	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/09/2012 22:00	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**165**	**5**	**0.245**	**ug/L**
108-88-3	Toluene	0.388U	5	0.388	ug/L
100-41-4	**Ethylbenzene**	**42.3**	**5**	**0.900**	**ug/L**
1330-20-7	**Xylene (total)**	**20.1**	**15**	**0.615**	**ug/L**
91-20-3	**Naphthalene**	**56.7**	**25**	**0.875**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.420U	5	0.420	ug/L
107-06-2	**1,2-Dichloroethane**	**23.7**	**5**	**0.605**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	248	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	250	264	ug/L	106	77 - 127
2037-26-5	Toluene d8	250	254	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	255	ug/L	102	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/09/2012 22:00	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	5.25U	25	5.25	ug/L
75-65-0	**t-Butanol (TBA)**	**55.5**	**50**	**1.45**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**42.8**	**25**	**0.525**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	5.55U	25	5.55	ug/L
624-95-3	ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	409U	500	409	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**2280**	**100**	**6.95**	**ug/L**
762-75-4	tert-butyl formate (TBF)	10.8U	25	10.8	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	248	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	250	264	ug/L	106	77 - 127
2037-26-5	Toluene d8	250	254	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	255	ug/L	102	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 12:21	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091111	MW-3D	Water	01/05/2012 15:30	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 19:57	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.065	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091112	MW-10	Water	01/06/2012 08:20	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 22:21	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**26.3**	**1**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	**Ethylbenzene**	**11.4**	**1**	**0.180**	**ug/L**
1330-20-7	**Xylene (total)**	**21.8**	**3**	**0.123**	**ug/L**
91-20-3	**Naphthalene**	**5.34**	**5**	**0.175**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**48.4**	**1**	**0.084**	**ug/L**
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 22:21	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5	1.05	ug/L
75-65-0	**t-Butanol (TBA)**	**41.2**	**10**	**0.290**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**1.07J**	**5**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**106**	**20**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 12:43	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.015**	**0.010**	**0.00320**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091112	MW-10	Water	01/06/2012 08:20	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 20:04	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091113	MW-11	Water	01/06/2012 13:10	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 19:30	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	55.1	ug/L	110	77 - 127
2037-26-5	Toluene d8	50	47.9	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 19:30	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	55.1	ug/L	110	77 - 127
2037-26-5	Toluene d8	50	47.9	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.3	ug/L	101	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 13:26	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091113	MW-11	Water	01/06/2012 13:10	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 20:11	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091114	**MW-12**	Water	01/06/2012 13:20	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	01/09/2012 19:51	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**3140**	**40**	**1.96**	**ug/L**
108-88-3	Toluene	3.10U	40	3.10	ug/L
100-41-4	**Ethylbenzene**	**89.5**	**40**	**7.20**	**ug/L**
1330-20-7	**Xylene (total)**	**247**	**120**	**4.92**	**ug/L**
91-20-3	**Naphthalene**	**465**	**200**	**7.00**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	3.36U	40	3.36	ug/L
107-06-2	1,2-Dichloroethane	4.84U	40	4.84	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	1900	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	2000	2160	ug/L	108	77 - 127
2037-26-5	Toluene d8	2000	1910	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	2000	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	01/09/2012 19:51	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	42.0U	200	42.0	ug/L
75-65-0	t-Butanol (TBA)	11.6U	400	11.6	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**73.4J**	**200**	**4.20**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	44.4U	200	44.4	ug/L
624-95-3	ethyl tert-butanol (ETBA)	1500U	4000	1500	ug/L
64-17-5	Ethanol	3270U	4000	3270	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**10600**	**800**	**55.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	86.4U	200	86.4	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	1900	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	2000	2160	ug/L	108	77 - 127
2037-26-5	Toluene d8	2000	1910	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	2000	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 13:47	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091114	MW-12	Water	01/06/2012 13:20	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 20:18	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091115	MW-13	Water	01/06/2012 13:30	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/09/2012 21:15	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**56.0**	**5**	**0.245**	**ug/L**
108-88-3	Toluene	0.388U	5	0.388	ug/L
100-41-4	Ethylbenzene	0.900U	5	0.900	ug/L
1330-20-7	**Xylene (total)**	**4.56J**	**15**	**0.615**	**ug/L**
91-20-3	**Naphthalene**	**33.5**	**25**	**0.875**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.420U	5	0.420	ug/L
107-06-2	**1,2-Dichloroethane**	**10.7**	**5**	**0.605**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	235	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	250	269	ug/L	108	77 - 127
2037-26-5	Toluene d8	250	238	ug/L	95	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	249	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	01/09/2012 21:15	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	5.25U	25	5.25	ug/L
75-65-0	**t-Butanol (TBA)**	**47.2J**	**50**	**1.45**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**15.6J**	**25**	**0.525**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	5.55U	25	5.55	ug/L
624-95-3	ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	409U	500	409	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1710**	**100**	**6.95**	**ug/L**
762-75-4	tert-butyl formate (TBF)	10.8U	25	10.8	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	235	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	250	269	ug/L	108	77 - 127
2037-26-5	Toluene d8	250	238	ug/L	95	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	249	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 14:09	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091115	MW-13	Water	01/06/2012 13:30	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 20:24	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0041J	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091116	MW-14	Water	01/06/2012 13:40	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 21:36	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**5.73**	**1**	**0.049**	**ug/L**
108-88-3	**Toluene**	**7.77**	**1**	**0.078**	**ug/L**
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	**Naphthalene**	**5.57**	**5**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**1.74**	**1**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	53.4	ug/L	107	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.4	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 21:36	EDS	472555

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**1.79J**	**5**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	158	**20**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	53.4	ug/L	107	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.4	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 14:30	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091116	MW-14	Water	01/06/2012 13:40	01/07/2012 08:55

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 15:00	472545	SW-846 3010A	1	01/11/2012 20:30	CLB	472702

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.025	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091117	PW-1	Water	01/05/2012 13:00	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 22:42	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**1.89**	1	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.8	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	53.2	ug/L	106	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 14:52	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201091118	PW-2	Water	01/05/2012 16:10	01/07/2012 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/09/2012 23:03	EDS	472554

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**4.64**	**1**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	53.1	ug/L	106	77 - 127
2037-26-5	Toluene d8	50	50.2	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48	ug/L	96	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/10/2012 14:45	472578	SW-846 8011	1	01/12/2012 15:14	TLS	472814

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00320U	0.010	0.00320	ug/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 472554	Client ID	MB472554			LCS472554			LCSD472554			
Prep Batch N/A	GCAL ID	1022561			1022562			1022563			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	01/09/2012 13:59			01/09/2012 11:53			01/09/2012 12:29			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	51.2	102	71 - 129	52.0	104	2	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	54.2	108	74 - 126	55.7	111	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	51.3	103	71 - 125	50.7	101	1	30
1330-20-7	Xylene (total)	0.123U	0.123	150	165	110	74 - 127	170	113	3	30
91-20-3	Naphthalene	0.175U	0.175	50.0	48.4	97	57 - 138	51.2	102	6	35
71-43-2	Benzene	0.049U	0.049	50.0	52.1	104	70 - 129	51.8	104	0.6	20
108-88-3	Toluene	0.078U	0.078	50.0	48.1	96	72 - 120	49.0	98	2	20
Surrogate											
460-00-4	4-Bromofluorobenzene	47.9	96	50	46.2	92	78 - 130	47.1	94		
1868-53-7	Dibromofluoromethane	54.5	109	50	54.6	109	77 - 127	53.5	107		
2037-26-5	Toluene d8	47.3	95	50	46.2	92	76 - 134	45.7	91		
17060-07-0	1,2-Dichloroethane-d4	48.4	97	50	51.1	102	71 - 127	50.2	100		

GC/MS Volatiles Quality Control Summary

Analytical Batch 472555	Client ID	MB472555			LCS472555			LCSD472555			
Prep Batch N/A	GCAL ID	1022564			1022565			1022566			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	01/09/2012 13:59			01/09/2012 11:53			01/09/2012 12:29			
	Matrix	Water			Water			Water			
SW-846 8260B		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	53.1	106	50 - 150	50.0	100	6	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	47.3	95	50 - 150	45.6	91	4	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	50.2	100	50 - 150	47.3	95	6	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	51.5	103	50 - 150	48.3	97	6	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2370	93	50 - 150	2490	98	5	50
64-17-5	Ethanol	81.8U	81.8	25200	26300	104	50 - 150	24600	98	7	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	204	102	50 - 150	197	99	3	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	57.7	115	50 - 150	53.8	108	7	50
Surrogate											
460-00-4	4-Bromofluorobenzene	47.9	96	50	46.2	92	78 - 130	47.1	94		
1868-53-7	Dibromofluoromethane	54.5	109	50	54.6	109	77 - 127	53.5	107		
2037-26-5	Toluene d8	47.3	95	50	46.2	92	76 - 134	45.7	91		
17060-07-0	1,2-Dichloroethane-d4	48.4	97	50	51.1	102	71 - 127	50.2	100		

General Chromatography Quality Control Summary

Analytical Batch	472814	**Client ID**	MB472578			LCS472578			LCSD472578			
Prep Batch	472578	**GCAL ID**	1022677			1022678			1022679			
Prep Method	SW-846 8011	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	01/10/2012 14:45			01/10/2012 14:45			01/10/2012 14:45			
		Analytical Date	01/12/2012 06:37			01/12/2012 06:58			01/12/2012 07:20			
		Matrix	Water			Water			Water			
SW-846 8011		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
106-93-4	1,2-Dibromoethane	0.00320U	0.00320	1.05	1.48	141	55 - 141	1.44	136	3	40	

Inorganics Quality Control Summary

Analytical Batch	472702	**Client ID**	MB472545			LCS472545		
Prep Batch	472545	**GCAL ID**	1022544			1022545		
Prep Method	SW-846 3010A	**Sample Type**	Method Blank			LCS		
		Prep Date	01/10/2012 15:00			01/10/2012 15:00		
		Analytical Date	01/11/2012 17:39			01/11/2012 17:46		
		Matrix	Water			Water		
SW-846 6010C		**Units**	mg/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
7439-92-1	Lead	0.0028U	0.0028	0.50	0.50	100	80 - 120	

Analytical Batch	472702	**Client ID**	MW-4			1022470MS		
Prep Batch	472545	**GCAL ID**	21201091104			1022547		
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE			MS		
		Prep Date	01/10/2012 15:00			01/10/2012 15:00		
		Analytical Date	01/11/2012 17:52			01/11/2012 18:06		
		Matrix	Water			Water		
SW-846 6010C		**Units**	mg/L	**Spike**	**Result**		**Control**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**	
7439-92-1	Lead	0.0	0.0028	0.50	0.50	99	75 - 125	

Analytical Batch	472702	**Client ID**	MW-4	1022470DUP			
Prep Batch	472545	**GCAL ID**	21201091104	1022546			
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE	DUP			
		Prep Date	01/10/2012 15:00	01/10/2012 15:00			
		Analytical Date	01/11/2012 17:52	01/11/2012 17:59			
		Matrix	Water	Water			
SW-846 6010C		**Units**	mg/L	**Result**		**RPD**	
		Result	**RDL**		**RPD**	**Limit**	
7439-92-1	Lead	0.0	0.0028	0.0	0	20	

Access/45565/2120 10911/ 1/13/12

Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____

Project Work Order #:

Laboratory ID:

Company Name: Terracon
Report To: William Walker
Address: 521 Clemson Rd
City: Columbia State: SC Zip: 29229
Phone: 803-741-4000 Fax:
Email:
Project ID: Eddies Pit Stop
Sampled By: W. Walker

Preservative (*see codes):
Container Type (*see codes):

REQUESTED LAB ANALYSIS:

Sample ID/Description	Date Collected	Time Collected	Type (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	BTEX, MTBE, 1,2 DCA	EDB	5 Oxygenates	Lead	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-1	1/6/12	1230	G	GW	SHW	7	X	X	X	X	1
MW-2		1150									2
MW-3		1140									3
MW-4		1250									4
MW-5		1300									5
MW-6		1050									6
MW-7		1110									7
MW-8		1220									8
MW-8D	1/5/12	1700									9
MW-9	1/6/12	1200									10

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4, CH3OH, 7 = NaOH/ZnOAc, 8 = H3PO4

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

*Program Area Codes: CWA = Clean Water Act (for wastewater), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Waste (for soils, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

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

Turnaround Time:
- ✓ Standard
- ___ RUSH*

*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:
- ✓ SC
- ___ NC
- ___ Other

(specify) _____

Relinquished By	Received By	Date (mm/dd/yy)	Time (24HR)	Sample Temp. Upon Receipt (°C)	
				____(°C)	____(N/A)
FedEx	CJaucier	1/7/12	855	4.8 (°C)	____(N/A)
				5.3 (°C)	____(N/A)
Master #	7930 9082 9750			____(°C)	____(N/A)

See Reverse for Terms and Conditions

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Pink Copy - Client Copy

2120109111

Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order # _____ PO # _____ Access Quote # _____

Project Work Order # _____

Laboratory ID: _____

Company Name: Terracon

Report To: William Walker

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803-741-9000 Fax:

Email:

Project ID: Eddics Pit Stop

Sampled By: W. Walker

Access Analytical, Inc.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # for each above analysis field): 0 = None, 1 = HCl, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAc, 8 = H3PO4

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

*Program/Area Codes: CWA = Clean Water Act (for wastewater), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Waste (for solid, ground waters and waste samples)

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected	Time Collected	Type (grab or composite)*	Matrix (see codes)*	Program Area (see codes)*	Total # of containers	# of containers collected	Preservative collected (see codes)*	# of containers collected	Container Type collected (see codes)*	# of containers collected	Preservative collected (see codes)*	# of containers collected	Container Type collected (see codes)*	# of containers collected	Preservative collected (see codes)*	# of containers collected	Container Type collected (see codes)*	# of containers collected	Preservative collected (see codes)*	# of containers collected	Container Type collected (see codes)*	# of containers collected	Preservative collected (see codes)*	# of containers collected	Container Type collected (see codes)*	# of containers collected	Preservative collected (see codes)*	# of containers collected	Container Type collected (see codes)*	REQUESTED LAB ANALYSIS → BTEX, Mph, MTBE, 1,2DCA	EDB	6 Oxygenates	Lead	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-3D	1/5/11	1530	G	GW	SHW	7																							X	X	X	X	11
MW-10	1/6/11	820																															12
MW-11		1310																															13
MW-12		1320																															14
MW-13		1330																															15
MW-14		1340																															16
PW-1	1/5/11	1300																											X	X			BTEX, Mph, MTBE + EDB only 17
PW-2	1/5/11	1610																											X	X			BTEX, Mph, MTBE + EDB only 18

Turnaround Time:

- ✓ Standard
- ___ RUSH*

*Date Required: _____

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

Project Location:

- ✓ SC
- ___ NC
- ___ Other

(specify) _____

Relinquished By:	Received By	Date (m-m-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C)	
				____(°C)	____(N/A)
FedEx	CJ Gaucier	1/7/12	855	5.3 (°C)	____(N/A)
				4.8 (°C)	____(N/A)
Master # 7930 9082 9750				____(°C)	____(N/A)

See Reverse for Terms and Conditions

Original Copy - Returned w/Report
Yellow Copy - Access File Copy
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GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212010911

Client: 4565 - Access Analytical

Profile: 78454 - Terracon -

Line Item: 2 - Water BTEX//Naph/MTBE/1,2-DCA/PAH

Received by:

Received Date/Time: 1/7/2012 8:55:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 2

Cooler tracking numbers(s): 7930 9082 9750

Cooler temperature(s): 4.8 5.3

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Terracon
521 Clemson Road
Columbia, SC 29229

ATTENTION
Regan Norris

PROJECT ID
Eddie's Pit Stop

LABORATORY REPORT NUMBER
210081113

DATE
08/17/2010

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 08/17/2010

GCAL Report 210081113

Deliver To	Terracon 521 Clemson Road Columbia, SC 29229 803-741-9000
Attn	Regan Norris

Project Eddie's Pit Stop

CASE NARRATIVE

Client: Terracon **Report:** 210081113

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, sample 21008111301 (MW-5) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 210081113

THIS REPORT CONTAINS 10 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21008111301	MW-5	Water	08/09/2010 15:45	08/11/2010 09:30
21008111302	TW-1	Water	08/09/2010 16:30	08/11/2010 09:30

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21008111301	MW-5	Water	08/09/2010 15:45	08/11/2010 09:30

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	166	10	0.542	ug/L
108-88-3	Toluene	44.4	10	0.590	ug/L
100-41-4	Ethylbenzene	539	10	0.627	ug/L
1330-20-7	Xylene (total)	1070	30	0.502	ug/L
91-20-3	Naphthalene	307	50	0.817	ug/L

SW-846 6010B

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0034B	0.015	0.0015	mg/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.269	0.010	0.00380	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21008111302	TW-1	Water	08/09/2010 16:30	08/11/2010 09:30

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
1330-20-7	Xylene (total)	1.27J	3	0.050	ug/L
91-20-3	Naphthalene	0.647J	5	0.082	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21008111301	MW-5	Water	08/09/2010 15:45	08/11/2010 09:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	08/12/2010 15:22	MSS	439630

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**166**	**10**	**0.542**	**ug/L**
108-88-3	**Toluene**	**44.4**	**10**	**0.590**	**ug/L**
100-41-4	**Ethylbenzene**	**539**	**10**	**0.627**	**ug/L**
1330-20-7	**Xylene (total)**	**1070**	**30**	**0.502**	**ug/L**
91-20-3	**Naphthalene**	**307**	**50**	**0.817**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.517U	10	0.517	ug/L
107-06-2	1,2-Dichloroethane	0.860U	10	0.860	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	496	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	500	515	ug/L	103	77 - 127
2037-26-5	Toluene d8	500	481	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	534	ug/L	107	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/12/2010 13:00	439608	SW-846 8011	1	08/16/2010 16:31	DLB	439908

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.269**	**0.010**	**0.00380**	**ug/L**

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/11/2010 14:45	439525	SW-846 3010A	1	08/12/2010 20:28	CNB	439624

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.0034B**	**0.015**	**0.0015**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21008111302	TW-1	Water	08/09/2010 16:30	08/11/2010 09:30

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	08/12/2010 15:46	MSS	439630

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.054U	1	0.054	ug/L
108-88-3	Toluene	0.059U	1	0.059	ug/L
100-41-4	Ethylbenzene	0.063U	1	0.063	ug/L
1330-20-7	**Xylene (total)**	**1.27J**	**3**	**0.050**	**ug/L**
91-20-3	**Naphthalene**	**0.647J**	**5**	**0.082**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.052U	1	0.052	ug/L
107-06-2	1,2-Dichloroethane	0.086U	1	0.086	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.6	ug/L	105	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/12/2010 13:00	439608	SW-846 8011	1	08/16/2010 16:54	DLB	439908

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00380U	0.010	0.00380	ug/L

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
08/11/2010 14:45	439525	SW-846 3010A	1	08/12/2010 20:34	CNB	439624

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0015U	0.015	0.0015	mg/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 439630	Client ID	MB439630			LCS439630			LCSD439630			
Prep Batch N/A	GCAL ID	867323			867324			867325			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	08/12/2010 11:29			08/12/2010 09:28			08/12/2010 10:19			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units Result**	**ug/L RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
107-06-2	1,2-Dichloroethane	0.086U	0.086	50.0	46.4	93	71 - 129	46.3	93	0.2	30
100-41-4	Ethylbenzene	0.063U	0.063	50.0	44.1	88	74 - 126	43.4	87	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.052U	0.052	50.0	42.2	84	71 - 125	42.1	84	0.2	30
1330-20-7	Xylene (total)	0.050U	0.050	150	135	90	74 - 127	133	89	1	30
91-20-3	Naphthalene	0.082U	0.082	50.0	43.0	86	57 - 138	42.4	85	1	35
71-43-2	Benzene	0.054U	0.054	50.0	43.9	88	70 - 129	43.7	87	0.5	20
108-88-3	Toluene	0.059U	0.059	50.0	42.0	84	72 - 120	41.3	83	2	20
Surrogate											
460-00-4	4-Bromofluorobenzene	48.1	96	50	50	100	78 - 130	49.9	100		
1868-53-7	Dibromofluoromethane	52.2	104	50	51.5	103	77 - 127	51.2	102		
2037-26-5	Toluene d8	49.1	98	50	47.6	95	76 - 134	46.8	94		
17060-07-0	1,2-Dichloroethane-d4	52.7	105	50	53.6	107	71 - 127	53.6	107		

General Chromatography Quality Control Summary

Analytical Batch 439908	Client ID	MB439608			LCS439608			LCSD439608			
Prep Batch 439608	GCAL ID	867281			867282			867283			
Prep Method SW-846 8011	Sample Type	Method Blank			LCS			LCSD			
	Prep Date	08/12/2010 13:00			08/12/2010 13:00			08/12/2010 13:00			
	Analytical Date	08/16/2010 15:02			08/16/2010 15:24			08/16/2010 15:46			
	Matrix	Water			Water			Water			
SW-846 8011		**Units** **Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
106-93-4 1,2-Dibromoethane		0.00380U	0.00380	1.26	1.48	117	55 - 141	1.39	115	6	40

Inorganics Quality Control Summary

Analytical Batch	439624	**Client ID**	MB439525			LCS439525		
Prep Batch	439525	**GCAL ID**	866890			866891		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	08/11/2010 14:45			08/11/2010 14:45		
		Analytical Date	08/12/2010 18:21			08/12/2010 18:28		
		Matrix	Water			Water		
SW-846 6010B		**Units**	mg/L					
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	
7439-92-1	Lead	0.0015U	0.0015	0.50	0.50	100	80 - 120	

Analytical Batch	439624	**Client ID**	ACC5-PI-081010			866926MS			866926MSD			
Prep Batch	439525	**GCAL ID**	21008111701			866979			866980			
Prep Method	SW-846	**Sample Type**	SAMPLE			MS			MSD			
	3010A	**Prep Date**	08/11/2010 14:45			08/11/2010 14:45			08/11/2010 14:45			
		Analytical Date	08/12/2010 18:35			08/12/2010 18:41			08/12/2010 18:48			
		Matrix	Water			Water			Water			
SW-846 6010B		**Units**	mg/L									
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**	
7439-92-1	Lead	0.0	0.0015	0.50	0.49	98	75 - 125	0.47	95	4	20	

Access Analytical - Chain of Custody Record

Access/4525/21006113/8.4.10

LAB USE ONLY

Project Work Order # 7309206

PO # _____ Access Quote # _____

LAB USE ONLY

Laboratory ID: CAAL

Company Name: Terracon Consultants

Report To: Roger W. Norris

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803-741-9000 Fax: 803-741-9900

Email: rwnorris@terracon.com

Project ID: Eddie's Pit Stop

Sampled By: Roger W. Norris

| Sample ID/Description | Date Collected | Time Collected | Type (C=Comp, G=Grab) | Matrix (see codes) | Program (CWA, SDWA, RCRA, or other) | TOTAL # of containers | Preservative (see codes) | Container Type (see codes) | REQUESTED LAB ANALYSIS 1 | | |

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Terracon
521 Clemson Rd
Columbia, SC 29229

ATTENTION
William Walker

PROJECT ID
Eddies Pitt Stop

LABORATORY REPORT NUMBER
211071448

DATE
07/21/2011

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**

- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**

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NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 07/21/2011

GCAL Report 211071448

Deliver To	Terracon 521 Clemson Rd Columbia, SC 29229
Attn	William Walker

Project Eddies Pitt Stop

CASE NARRATIVE

Client: Terracon **Report:** 211071448

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This reported is being resubmitted on 07/21/11 due to client request to change sample IDs on all samples. Sample TW-4 was changed to TW-1, TW-5 was changed to TW-2 and TW-10 was changed to TW-3.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, samples 21107144801 (TW-1) and 21107144803 (TW-3) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated detection limits.

In the SW-846 8260B analysis for analytical batch 461093, the LCS/LCSD exhibited marginal sporadic recovery failures for the extended list of spike compounds.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues
Technical Director
GCAL REPORT 211071448

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144801	TW-1	Water	07/13/2011 10:10	07/14/2011 08:55
21107144802	TW-2	Water	07/13/2011 10:30	07/14/2011 08:55
21107144803	TW-3	Water	07/13/2011 10:40	07/14/2011 08:55

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144801	**TW-1**	Water	07/13/2011 10:10	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**608**	**5.00**	**0.245**	**ug/L**
108-88-3	**Toluene**	**123**	**5.00**	**0.388**	**ug/L**
100-41-4	**Ethylbenzene**	**245**	**5.00**	**0.900**	**ug/L**
1330-20-7	**Xylene (total)**	**1160**	**15.0**	**0.615**	**ug/L**
91-20-3	**Naphthalene**	**151**	**25.0**	**0.875**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144802	**TW-2**	Water	07/13/2011 10:30	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**11.3**	**1.00**	**0.049**	**ug/L**
1330-20-7	**Xylene (total)**	**6.94**	**3.00**	**0.123**	**ug/L**
91-20-3	**Naphthalene**	**7.03**	**5.00**	**0.175**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**1.03**	**1.00**	**0.084**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144803	**TW-3**	Water	07/13/2011 10:40	07/14/2011 08:55

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2440**	**25.0**	**1.23**	**ug/L**
108-88-3	**Toluene**	**877**	**25.0**	**1.94**	**ug/L**
100-41-4	**Ethylbenzene**	**460**	**25.0**	**4.50**	**ug/L**
1330-20-7	**Xylene (total)**	**2640**	**75.0**	**3.08**	**ug/L**
91-20-3	**Naphthalene**	**442**	**125**	**4.38**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**285**	**25.0**	**2.10**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144801	**TW-1**	Water	07/13/2011 10:10	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/16/2011 21:16	SLR	461093

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**608**	**5.00**	**0.245**	**ug/L**
108-88-3	**Toluene**	**123**	**5.00**	**0.388**	**ug/L**
100-41-4	**Ethylbenzene**	**245**	**5.00**	**0.900**	**ug/L**
1330-20-7	**Xylene (total)**	**1160**	**15.0**	**0.615**	**ug/L**
91-20-3	**Naphthalene**	**151**	**25.0**	**0.875**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.420U	5.00	0.420	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	238	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	250	245	ug/L	98	77 - 127
2037-26-5	Toluene d8	250	260	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	252	ug/L	101	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144802	**TW-2**	Water	07/13/2011 10:30	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/16/2011 21:40	SLR	461093

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**11.3**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	**Xylene (total)**	**6.94**	**3.00**	**0.123**	**ug/L**
91-20-3	**Naphthalene**	**7.03**	**5.00**	**0.175**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**1.03**	**1.00**	**0.084**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.9	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	52.8	ug/L	106	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21107144803	**TW-3**	Water	07/13/2011 10:40	07/14/2011 08:55

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	07/16/2011 22:03	SLR	461093

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2440**	**25.0**	**1.23**	**ug/L**
108-88-3	**Toluene**	**877**	**25.0**	**1.94**	**ug/L**
100-41-4	**Ethylbenzene**	**460**	**25.0**	**4.50**	**ug/L**
1330-20-7	**Xylene (total)**	**2640**	**75.0**	**3.08**	**ug/L**
91-20-3	**Naphthalene**	**442**	**125**	**4.38**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**285**	**25.0**	**2.10**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1180	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	1250	1150	ug/L	92	77 - 127
2037-26-5	Toluene d8	1250	1310	ug/L	105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1280	ug/L	102	71 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch	461093	**Client ID**	MB461093		LCS461093			LCSD461093			
Prep Batch	N/A	**GCAL ID**	969254		969255			969256			
		Sample Type	Method Blank		LCS			LCSD			
		Analytical Date	07/16/2011 20:48		07/16/2011 19:37			07/16/2011 20:00			
		Matrix	Water		Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	45.5	91	71 - 129	46.6	93	2	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.3	105	74 - 126	50.0	100	4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	48.3	97	71 - 125	47.8	96	1	30
1330-20-7	Xylene (total)	0.123U	0.123	150	153	102	74 - 127	149	99	3	30
91-20-3	Naphthalene	0.175U	0.175	50.0	59.1	118	57 - 138	69.5	**139***	16	35
71-43-2	Benzene	0.049U	0.049	50.0	47.6	95	70 - 129	43.7	87	9	20
108-88-3	Toluene	0.078U	0.078	50.0	52.5	105	72 - 120	49.9	100	5	20
Surrogate											
460-00-4	4-Bromofluorobenzene	46.3	93	50	47	94	78 - 130	47.5	95		
1868-53-7	Dibromofluoromethane	45.3	91	50	48.9	98	77 - 127	43.3	87		
2037-26-5	Toluene d8	53.4	107	50	51.8	104	76 - 134	52.2	104		
17060-07-0	1,2-Dichloroethane-d4	50.5	101	50	48.5	97	71 - 127	49.5	99		

Access Analytical - Chain of Custody Record

LAB USE ONLY

Project Work Order #: _____ PO #: _____ Access Quote #: _____

LAB USE ONLY

Laboratory ID: _____

Company Name: Terracon

Report To: Wwalker

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803-741-9000 Fax:

Email:

Project ID: Eddies PIH Stop

Sampled By: Wwalker

Sample ID/Description	Date Collected	Time Collected	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected per analysis: REQUESTED LAB ANALYSIS: BTEX, Naph, MBE	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
TW-#1*	7-13-11	1010	G	GW	SHW	1	X	1
TW-#2*	"	1030	"	"	"	2	"	2
TW-#3*	"	1040	"	"	"	2	"	3
								* client ID's updated per client request 7/21/11 BJM

Preservative (*see codes):

Container Type (*see codes):

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4

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

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:

✓ Standard

___ RUSH*

*Date Required: _____

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

Project Location:

✓ SC

___ NC

___ Other

(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C):	
	M. Robertson	7/13/11	1400	5.3 (°C)	___ (N/A)
M. Robertson	FedEx	7/13/11	1700	___ (°C)	✓ (N/A)
FedEx	CJaurien	7/14/11	8:55	4.9 (°C)	___ (N/A)
				___ (°C)	___ (N/A)

8753 8642 2229

See Reverse for Terms and Conditions

4.9

Original Copy - Returned w/Report
Yellow Copy - Access File Copy
Pink Copy - Client Copy

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 211071448

Client: 4565 - Access Analytical

Profile: 78454 - Terracon -

Line Item: 12 - Water BTEX//Naph/MTBE/EDB/Oxy

Received by: Pfeifer, Ben J.

Received Date/Time: 7/14/2011 8:55:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 8753 8642 2227

Cooler temperature(s): 4.9

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Terracon
521 Clemson Rd
Columbia, SC 29229

ATTENTION
Mike Hudgins

PROJECT ID
Eddies Pitt Stop

LABORATORY REPORT NUMBER
212071939

DATE
07/24/2012

Primary Data Review By

Robyn Migues

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**

- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**

- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 07/24/2012

GCAL Report 212071939

Deliver To	Terracon 521 Clemson Rd Columbia, SC 29229
Attn	Mike Hudgins

Project Eddies Pitt Stop

CASE NARRATIVE

Client: Access Analytical **Report:** 212071939

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B - Gas Additives analysis, samples 21207193901 (MW-2) and 21207193903 (MW-3D) had to be diluted due to the presence of non-target background. This dilution is reflected in the elevated detection limits.

In the SW-846 8260B analysis, samples 21207193901 (MW-2) and 21207193903 (MW-3D) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated detection limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 212071939

THIS REPORT CONTAINS 25 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193901	MW-2	Water	07/17/2012 12:40	07/19/2012 09:40
21207193902	MW-3	Water	07/17/2012 11:30	07/19/2012 09:40
21207193903	MW-3D	Water	07/17/2012 11:50	07/19/2012 09:40
21207193904	MW-7	Water	07/17/2012 12:10	07/19/2012 09:40
21207193905	MW-9	Water	07/17/2012 13:00	07/19/2012 09:40
21207193906	PW-1	Water	07/17/2012 14:45	07/19/2012 09:40
21207193907	PW-2	Water	07/17/2012 15:00	07/19/2012 09:40

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193901	**MW-2**	Water	07/17/2012 12:40	07/19/2012 09:40

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.210	0.010	0.00290	ug/L

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.011J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	3940	25.0	2.48	ug/L
108-88-3	Toluene	146	25.0	3.18	ug/L
100-41-4	Ethylbenzene	1100	25.0	2.98	ug/L
1330-20-7	Xylene (total)	4250	75.0	9.60	ug/L
91-20-3	Naphthalene	604	125	1.63	ug/L
107-06-2	1,2-Dichloroethane	122	25.0	2.98	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	158J	250	7.25	ug/L
108-20-3	diisopropyl Ether (DIPE)	71.9J	125	2.63	ug/L
75-85-4	tert-amyl alcohol (TAA)	6590	500	34.8	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193902	**MW-3**	Water	07/17/2012 11:30	07/19/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	4.73J	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	1.53J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	170	20.0	1.39	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	91.6	1.00	0.099	ug/L
108-88-3	Toluene	0.408J	1.00	0.127	ug/L
100-41-4	Ethylbenzene	48.9	1.00	0.119	ug/L
1330-20-7	Xylene (total)	5.71	3.00	0.384	ug/L
91-20-3	Naphthalene	74.6	5.00	0.065	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193902	MW-3	Water	07/17/2012 11:30	07/19/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	1.26	1.00	0.119	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193903	MW-3D	Water	07/17/2012 11:50	07/19/2012 09:40

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.053	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	71.0	50.0	1.45	ug/L
108-20-3	diisopropyl Ether (DIPE)	36.1	25.0	0.525	ug/L
75-85-4	tert-amyl alcohol (TAA)	2340	100	6.95	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	248	5.00	0.495	ug/L
108-88-3	Toluene	4.08J	5.00	0.635	ug/L
100-41-4	Ethylbenzene	71.9	5.00	0.595	ug/L
1330-20-7	Xylene (total)	43.6	15.0	1.92	ug/L
91-20-3	Naphthalene	51.2	25.0	0.325	ug/L
107-06-2	1,2-Dichloroethane	24.3	5.00	0.595	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193906	PW-1	Water	07/17/2012 14:45	07/19/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	1.22	1.00	0.119	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193907	PW-2	Water	07/17/2012 15:00	07/19/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.448J	1.00	0.099	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193901	**MW-2**	Water	07/17/2012 12:40	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	07/20/2012 12:46	CLH	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**3940**	**25.0**	**2.48**	**ug/L**
108-88-3	**Toluene**	**146**	**25.0**	**3.18**	**ug/L**
100-41-4	**Ethylbenzene**	**1100**	**25.0**	**2.98**	**ug/L**
1330-20-7	**Xylene (total)**	**4250**	**75.0**	**9.60**	**ug/L**
91-20-3	**Naphthalene**	**604**	**125**	**1.63**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	1.51U	25.0	1.51	ug/L
107-06-2	**1,2-Dichloroethane**	**122**	**25.0**	**2.98**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1280	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1250	1250	ug/L	100	77 - 127
2037-26-5	Toluene d8	1250	1220	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1270	ug/L	102	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	07/20/2012 12:46	CLH	485931

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	26.3U	125	26.3	ug/L
75-65-0	**t-Butanol (TBA)**	**158J**	**250**	**7.25**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**71.9J**	**125**	**2.63**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	27.8U	125	27.8	ug/L
624-95-3	ethyl tert-butanol (ETBA)	940U	2500	940	ug/L
64-17-5	Ethanol	2050U	2500	2050	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**6590**	**500**	**34.8**	**ug/L**
762-75-4	tert-butyl formate (TBF)	54.0U	1250	54.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1280	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1250	1250	ug/L	100	77 - 127
2037-26-5	Toluene d8	1250	1220	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1270	ug/L	102	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 15:08	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.210**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193901	**MW-2**	Water	07/17/2012 12:40	07/19/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2012 17:30	485946	SW-846 3010A	1	07/21/2012 22:39	CLB	486029

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.011J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193902	**MW-3**	Water	07/17/2012 11:30	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 13:08	JCK	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**91.6**	**1.00**	**0.099**	**ug/L**
108-88-3	**Toluene**	**0.408J**	**1.00**	**0.127**	**ug/L**
100-41-4	**Ethylbenzene**	**48.9**	**1.00**	**0.119**	**ug/L**
1330-20-7	**Xylene (total)**	**5.71**	**3.00**	**0.384**	**ug/L**
91-20-3	**Naphthalene**	**74.6**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**1.26**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	54.9	ug/L	110	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 13:08	CLH	485931

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	**t-Butanol (TBA)**	**4.73J**	**10.0**	**0.290**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**1.53J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**170**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	54.9	ug/L	110	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 15:30	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193902	**MW-3**	Water	07/17/2012 11:30	07/19/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2012 17:30	485946	SW-846 3010A	1	07/21/2012 23:26	CLB	486029

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193903	**MW-3D**	Water	07/17/2012 11:50	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/20/2012 15:13	JCK	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**248**	**5.00**	**0.495**	**ug/L**
108-88-3	**Toluene**	**4.08J**	**5.00**	**0.635**	**ug/L**
100-41-4	**Ethylbenzene**	**71.9**	**5.00**	**0.595**	**ug/L**
1330-20-7	**Xylene (total)**	**43.6**	**15.0**	**1.92**	**ug/L**
91-20-3	**Naphthalene**	**51.2**	**25.0**	**0.325**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.302U	5.00	0.302	ug/L
107-06-2	**1,2-Dichloroethane**	**24.3**	**5.00**	**0.595**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	252	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	250	253	ug/L	101	77 - 127
2037-26-5	Toluene d8	250	252	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	251	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/20/2012 15:13	CLH	485931

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	5.25U	25.0	5.25	ug/L
75-65-0	**t-Butanol (TBA)**	**71.0**	**50.0**	**1.45**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**36.1**	**25.0**	**0.525**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	5.55U	25.0	5.55	ug/L
624-95-3	ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	409U	500	409	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**2340**	**100**	**6.95**	**ug/L**
762-75-4	tert-butyl formate (TBF)	10.8U	250	10.8	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	252	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	250	253	ug/L	101	77 - 127
2037-26-5	Toluene d8	250	252	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	251	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 15:52	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193903	**MW-3D**	Water	07/17/2012 11:50	07/19/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2012 17:30	485946	SW-846 3010A	1	07/21/2012 23:34	CLB	486029

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.053**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193904	**MW-7**	Water	07/17/2012 12:10	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 14:38	JCK	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.6	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	48.8	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 14:38	CLH	485931

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.6	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	48.8	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 16:13	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193904	**MW-7**	Water	07/17/2012 12:10	07/19/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2012 17:30	485946	SW-846 3010A	1	07/21/2012 23:40	CLB	486029

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193905	**MW-9**	Water	07/17/2012 13:00	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 15:35	CLH	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 15:35	CLH	485931

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.3	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 16:35	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193905	**MW-9**	Water	07/17/2012 13:00	07/19/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/20/2012 17:30	485946	SW-846 3010A	1	07/21/2012 23:48	CLB	486029

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193906	**PW-1**	Water	07/17/2012 14:45	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 15:57	CLH	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**1.22**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 16:57	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207193907	**PW-2**	Water	07/17/2012 15:00	07/19/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/20/2012 16:19	JCK	485932

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**0.448J**	**1.00**	**0.099**	**ug/L**
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	48.9	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 06:20	486058	SW-846 8011	1	07/23/2012 17:18	TLS	486187

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GC/MS Volatiles Quality Control Summary

Analytical Batch	485932	**Client ID**	MB485932			LCS485932				LCSD485932		
Prep Batch	N/A	**GCAL ID**	1088329			1088330				1088331		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	07/20/2012 12:24			07/20/2012 11:19				07/20/2012 11:41		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
107-06-2	1,2-Dichloroethane	0.119U	0.119	50.0	52.1	104	71 - 129		52.3	105	0.4	30
100-41-4	Ethylbenzene	0.119U	0.119	50.0	55.4	111	74 - 126		54.2	108	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	51.6	103	71 - 125		53.2	106	3	30
1330-20-7	Xylene (total)	0.384U	0.384	150	166	111	74 - 127		160	107	4	30
91-20-3	Naphthalene	0.065U	0.065	50.0	47.9	96	57 - 138		54.6	109	13	35
71-43-2	Benzene	0.099U	0.099	50.0	53.7	107	70 - 129		52.9	106	2	20
108-88-3	Toluene	0.127U	0.127	50.0	53.9	108	72 - 120		52.2	104	3	20
Surrogate												
460-00-4	4-Bromofluorobenzene	51	102	50	52.3	105	78 - 130		51.2	102		
1868-53-7	Dibromofluoromethane	50.1	100	50	50.3	101	77 - 127		50.7	101		
2037-26-5	Toluene d8	49.6	99	50	49.1	98	76 - 134		49	98		
17060-07-0	1,2-Dichloroethane-d4	49.4	99	50	49.6	99	71 - 127		50	100		

GC/MS Volatiles Quality Control Summary

Analytical Batch	485931	**Client ID**	MB485931			LCS485931				LCSD485931		
Prep Batch	N/A	**GCAL ID**	1088326			1088327				1088328		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	07/20/2012 12:24			07/20/2012 11:19				07/20/2012 11:41		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	52.7	105	50 - 150		53.4	107	1	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	44.3	89	50 - 150		46.5	93	5	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	52.4	105	50 - 150		52.6	105	0.4	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	52.7	105	50 - 150		53.6	107	2	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2410	95	50 - 150		2580	101	7	50
64-17-5	Ethanol	81.8U	81.8	25200	23700	94	50 - 150		24700	98	4	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	192	96	50 - 150		205	103	7	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	58.9	118	50 - 150		58.4	117	0.9	50
Surrogate												
460-00-4	4-Bromofluorobenzene	51	102	50	52.3	105	78 - 130		51.2	102		
1868-53-7	Dibromofluoromethane	50.1	100	50	50.3	101	77 - 127		50.7	101		
2037-26-5	Toluene d8	49.6	99	50	49.1	98	76 - 134		49	98		
17060-07-0	1,2-Dichloroethane-d4	49.4	99	50	49.6	99	71 - 127		50	100		

General Chromatography Quality Control Summary

Analytical Batch	486187	**Client ID**	MB486058	LCS486058	LCSD486058
Prep Batch	486058	**GCAL ID**	1088927	1088928	1088929
Prep Method	SW-846 8011	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/23/2012 06:20	07/23/2012 06:20	07/23/2012 06:20
		Analytical Date	07/23/2012 13:54	07/23/2012 14:25	07/23/2012 14:46
		Matrix	Water	Water	Water

SW-846 8011		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
106-93-4	1,2-Dibromoethane	0.00290U	0.00290	1.12	1.21	108	55 - 141	1.03	97	16	40

Inorganics Quality Control Summary

Analytical Batch	486029	**Client ID**	MB485946		LCS485946
Prep Batch	485946	**GCAL ID**	1088406		1088407
Prep Method	SW-846 3010A	**Sample Type**	Method Blank		LCS
		Prep Date	07/20/2012 17:30		07/20/2012 17:30
		Analytical Date	07/21/2012 22:25		07/21/2012 22:32
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7439-92-1	Lead	0.0028U	0.0028	0.50	0.48	96	80 - 120

Analytical Batch	486029	**Client ID**	MW-2		1088065MS
Prep Batch	485946	**GCAL ID**	21207193901		1088409
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE		MS
		Prep Date	07/20/2012 17:30		07/20/2012 17:30
		Analytical Date	07/21/2012 22:39		07/21/2012 22:52
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7439-92-1	Lead	0.011	0.0028	0.50	0.49	96	75 - 125

Analytical Batch	486029	**Client ID**	MW-2		1088065DUP
Prep Batch	485946	**GCAL ID**	21207193901		1088408
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE		DUP
		Prep Date	07/20/2012 17:30		07/20/2012 17:30
		Analytical Date	07/21/2012 22:39		07/21/2012 22:46
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L			
		Result	**RDL**	**Result**	**RPD**	**RPD Limit**
7439-92-1	Lead	0.011	0.0028	0.0097	13	20

Access / 4505/212071939/ 7/26/12

Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____

Project Work Order #: _____

Laboratory ID: GCAL

Company Name: Terracon

Report To: Mike Hudgins

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803-741-9000 Fax:

Email:

Project ID: Eddins Pit Stop

Sampled By: W. Walker / RW

Preservative: (*see codes)

Container Type: (*see codes)

↓ REQUESTED LAB ANALYSIS: ↓

Sample ID/Description	Date Collected:	Time Collected:	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected per analysis	BTEX, MTBE, 1,2 DCA	EDB	Lead	Oxygenates	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-2	7/17/12	1240	G	GW	SHW	7		X	X	X	X	1
MW-3		1130						X	X	X	X	2
MW-3D		1150						X	X	X	X	3
MW-7		1210						X	X	X	X	4
MW-9		1300						X	X	X	X	5
PW-1		1445				4		X	X			6
PW-2		1500				4		X	X			7

Access Analytical, Inc.
7478 Carlisle Street
Irmo, SC 29063
Phone: (803) 781-4243
Fax: 781-4303
www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAc, 8 = H_3PO_4

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

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:

- ✓ Standard
- ___ RUSH*
- *Date Required: _____ (For rush work, results emailed/faxed by end of business day on date required)

Project Location:

- ✓ SC
- ___ NC
- ___ Other

(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C):	
[signature]	M Roberson	7/18/12	1440	0.4 (°C)	___ (N/A)
M. Roberson	FedEx	7/18/12	1700	___ (°C)	✓ (N/A)
FedEx	[signature]	7/19/12	940	5.8 (°C)	___ (N/A)
5035 7502 7939				5.2 (°C)	___ (N/A)

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Pg 1 of 1

24 of 25

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SDG
212071939

PROJECT	
Client 4565 - Access Analytical	**Transport Method** FEDEX
Profile 78454 - Terracon -	**Received By** Pfeifer, Ben J.
Line Item(s) 2 - Water BTEX//Naph/MTBE/1,2-DCA/PAH	**Receive Date(s)** 07/19/12

CHECKLIST			
Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
5035 7502 7939	5.8
	5.2

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

212071939

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Terracon
521 Clemson Rd
Columbia, SC 29229

ATTENTION
William Walker

PROJECT ID
Eddies Pitt Stop

LABORATORY REPORT NUMBER
212013003

DATE
02/02/2012

Primary Data Review By

Robyn Migliss

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 02/02/2012

GCAL Report 212013003

Deliver To	Terracon 521 Clemson Rd Columbia, SC 29229
Attn	William Walker

Project Eddies Pitt Stop

CASE NARRATIVE

Client: Access Analytical **Report:** 212013003

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found in the analyzed sample(s).

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 212013003

THIS REPORT CONTAINS 13 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201300301	CASPER	Water	01/27/2012 13:00	01/28/2012 09:10
21201300302	PW-1	Water	01/27/2012 14:30	01/28/2012 09:10
21201300303	PW-2	Water	01/27/2012 13:30	01/28/2012 09:10

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201300302	PW-1	Water	01/27/2012 14:30	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	1.97	1	0.121	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201300303	PW-2	Water	01/27/2012 13:30	01/28/2012 09:10

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1.15	1	0.049	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201300301	CASPER	Water	01/27/2012 13:00	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 02:02	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.4	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	51.8	ug/L	104	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/31/2012 10:05	473902	SW-846 8011	1	02/01/2012 12:00	TLS	474050

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201300302	PW-1	Water	01/27/2012 14:30	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 02:24	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1	0.049	ug/L
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**1.97**	**1**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	52.6	ug/L	105	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.4	ug/L	105	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/31/2012 10:05	473902	SW-846 8011	1	02/01/2012 12:21	TLS	474050

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21201300303	PW-2	Water	01/27/2012 13:30	01/28/2012 09:10

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	01/31/2012 02:48	CLH	473896

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**1.15**	**1**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1	0.180	ug/L
1330-20-7	Xylene (total)	0.123U	3	0.123	ug/L
91-20-3	Naphthalene	0.175U	5	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.9	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	52.4	ug/L	105	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
01/31/2012 10:05	473902	SW-846 8011	1	02/01/2012 12:43	TLS	474050

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 473896	Client ID	MB473896			LCS473896			LCSD473896			
Prep Batch N/A	GCAL ID	1028971			1028972			1028973			
	Sample Type	Method Blank			LCS			LCSD			
	Analytical Date	01/30/2012 23:04			01/30/2012 21:38			01/30/2012 21:59			
	Matrix	Water			Water			Water			
SW-846 8260B		**Units Result**	ug/L **RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**	**Result**	**% R**	**RPD**	**RPD Limit**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	48.4	97	71 - 129	50.3	101	4	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	49.3	99	74 - 126	51.0	102	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	46.6	93	71 - 125	49.8	100	7	30
1330-20-7	Xylene (total)	0.123U	0.123	150	150	100	74 - 127	154	103	3	30
91-20-3	Naphthalene	0.175U	0.175	50.0	45.5	91	57 - 138	54.1	108	17	35
71-43-2	Benzene	0.049U	0.049	50.0	49.2	98	70 - 129	49.8	100	1	20
108-88-3	Toluene	0.078U	0.078	50.0	47.3	95	72 - 120	49.3	99	4	20
Surrogate											
460-00-4	4-Bromofluorobenzene	49.2	98	50	50.4	101	78 - 130	50.4	101		
1868-53-7	Dibromofluoromethane	50.5	101	50	51	102	77 - 127	50.8	102		
2037-26-5	Toluene d8	50.4	101	50	48.7	97	76 - 134	49.7	99		
17060-07-0	1,2-Dichloroethane-d4	50.7	101	50	51.2	102	71 - 127	50.8	102		

General Chromatography Quality Control Summary

Analytical Batch	474050	Client ID	MB473902			LCS473902			LCSD473902			
Prep Batch	473902	GCAL ID	1028987			1028988			1028989			
Prep Method	SW-846 8011	Sample Type	Method Blank			LCS			LCSD			
		Prep Date	01/31/2012 10:05			01/31/2012 10:05			01/31/2012 10:05			
		Analytical Date	02/01/2012 10:56			02/01/2012 11:17			02/01/2012 11:39			
		Matrix	Water			Water			Water			
SW-846 8011		Units	ug/L	Spike	Result		Control	Result			RPD
		Result	RDL	Added		% R	Limits % R		% R	RPD	Limit
106-93-4	1,2-Dibromoethane	0.00290U	0.00290	1.08	1.05	97	55 - 141	1.15	106	9	40

Access/45651 212013003/2/3/12

Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____ Project Work Order #: _____ Laboratory ID: _____

Company Name: Terracon
Report To: W. Walker
Address: 521 Chemsong Rd
City: Columbia State: SC Zip: 29229
Phone: 803-741-9000 Fax:
Email:
Project ID: Eddics Pit Sep
Sampled By: W. Walker

Preservative (# or codes) / Container Type (# or codes) / REQUESTED LAB ANALYSIS

Sample ID/Description	Date Collected	Time Collected	Type* (grab or composite)	Matrix* (see codes)	Program Area (ex. SDWA)	Total # of containers	BTEX, Naph, MtBE 1,2 DCA	EDB	NOTES / COMMENTS
Casper	1/27/12	1300	G	GW	SAW	4	X	1	1
PW-1	"	1430	"	"	"	"	"	"	2
PW-2	"	1330	"	"	"	"	"	"	3

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

12 of 13

*Preservative Codes: (place corresponding # in block above analysis field) 0 = None, 1 = HCl, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2SO3, 6 = Method 5035 kit w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAc, 8 = H3PO4

*Matrix Codes: (place corresponding code in matrix column) GW = ground water, WW = waste water, DW = drinking water, S = soil, SL = sludge, A = air, NW = non-aqueous liquid waste, WP = waste oil, OT = other (specify in comments section)

*Program Area Codes: CWA = Clean Water Act (for wastewater), SDWA = Safe Drinking Water Act (for drinking water), SHW = Solid and Hazardous Waste (for soils, groundwaters and waste samples)

*Container Type: G = Glass, P = Plastic

Turnaround Time:
✓ Standard
___ RUSH*
*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:
✓ SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm/dd/yy)	Time (24Hr)	Sample Temp. Upon Receipt (°C)	
[signature]	M. Robertson	1-27-12	1615	____(°C)	____(N/A)
M. Robertson	FedEx	1-27-12	1700	____(°C)	____(N/A)
FedEx 5075 7502 4425	[signature]	1/28/12	0910	2.4 (°C)	____(N/A)
				____(°C)	____(N/A)

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Pg 1 of 1

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212013003

Client: 4565 - Access Analytical

Profile: 78454 - Terracon -

Line Item: 2 - Water BTEX/Naph/MTBE/1,2-DCA/PAH

Received by: Carstens, Jennifer K.

Received Date/Time: 1/28/2012 9:10:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 5035 7502 4425

Cooler temperature(s): 2.4

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☐ N/A

Notes/Comments: _____

ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Terracon
521 Clemson Rd
Columbia, SC 29229

ATTENTION
William Walker

PROJECT ID
Eddies Pitt Stop

LABORATORY REPORT NUMBER
212040907

DATE
04/17/2012

Primary Data Review By

Robyn Migues

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 04/17/2012

GCAL Report 212040907

Deliver To	Terracon 521 Clemson Rd Columbia, SC 29229
Attn	William Walker

Project Eddies Pitt Stop

CASE NARRATIVE

Client: Access Analytical **Report:** 212040907

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, samples 21204090701 (MW-1), 21204090702 (MW-2), 21204090704 (MW-3D), 21204090706 (MW-5), 21204090709 (MW-8), 21204090712 (MW-10), and 21204090714 (MW-12) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

In the SW-846 8260B - Gas Additives analysis, samples 21204090701 (MW-1), 21204090702 (MW-2), 21204090704 (MW-3D), 21204090706 (MW-5), 21204090709 (MW-8), 21204090712 (MW-10), and 21204090714 (MW-12) had to be diluted due to the presence of non-target background. The dilutions are reflected in the elevated reporting limits.

METALS

In the SW-846 6010C analysis for prep batch 478292, the Sample/Duplicate RPD for Lead is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues

Robyn Migues
Technical Director
GCAL REPORT 212040907

THIS REPORT CONTAINS 90 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090701	MW-1	Water	04/05/2012 04:55	04/07/2012 09:45
21204090702	MW-2	Water	04/05/2012 09:30	04/07/2012 09:45
21204090703	MW-3	Water	04/05/2012 09:45	04/07/2012 09:45
21204090704	MW-3D	Water	04/05/2012 09:30	04/07/2012 09:45
21204090705	MW-4	Water	04/05/2012 17:20	04/07/2012 09:45
21204090706	MW-5	Water	04/05/2012 05:15	04/07/2012 09:45
21204090707	MW-6	Water	04/05/2012 07:00	04/07/2012 09:45
21204090708	MW-7	Water	04/05/2012 10:00	04/07/2012 09:45
21204090709	MW-8	Water	04/05/2012 11:45	04/07/2012 09:45
21204090710	MW-8D	Water	04/05/2012 11:30	04/07/2012 09:45
21204090711	MW-9	Water	04/05/2012 09:00	04/07/2012 09:45
21204090712	MW-10	Water	04/05/2012 07:50	04/07/2012 09:45
21204090713	MW-11	Water	04/05/2012 17:30	04/07/2012 09:45
21204090714	MW-12	Water	04/05/2012 15:00	04/07/2012 09:45
21204090715	MW-13	Water	04/05/2012 14:30	04/07/2012 09:45
21204090716	MW-14	Water	04/05/2012 10:30	04/07/2012 09:45
21204090717	MW-15	Water	04/05/2012 11:15	04/07/2012 09:45
21204090718	MW-15D	Water	04/05/2012 12:15	04/07/2012 09:45
21204090719	MW-16	Water	04/05/2012 10:45	04/07/2012 09:45
21204090720	MW-16D	Water	04/05/2012 10:30	04/07/2012 09:45
21204090721	MW-17	Water	04/05/2012 08:40	04/07/2012 09:45
21204090722	MW-17D	Water	04/05/2012 08:30	04/07/2012 09:45
21204090723	MW-18	Water	04/05/2012 05:30	04/07/2012 09:45
21204090724	MW-18D	Water	04/05/2012 14:30	04/07/2012 09:45
21204090725	MW-19	Water	04/05/2012 13:30	04/07/2012 09:45
21204090726	MW-19D	Water	04/05/2012 13:00	04/07/2012 09:45
21204090727	PW-1	Water	04/05/2012 15:30	04/07/2012 09:45
21204090728	PW-2	Water	04/05/2012 16:20	04/07/2012 09:45
21204090729	TW-14	Water	04/05/2012 17:45	04/07/2012 09:45
21204090730	TW-15	Water	04/05/2012 17:40	04/07/2012 09:45
21204090731	TW-16	Water	04/05/2012 17:25	04/07/2012 09:45
21204090732	TW-17	Water	04/05/2012 17:30	04/07/2012 09:45
21204090733	TW-18	Water	04/05/2012 17:25	04/07/2012 09:45
21204090734	TW-19	Water	04/05/2012 17:20	04/07/2012 09:45
21204090735	TW-20	Water	04/05/2012 17:15	04/07/2012 09:45
21204090736	TW-21	Water	04/05/2012 17:10	04/07/2012 09:45
21204090737	TW-22	Water	04/05/2012 17:05	04/07/2012 09:45
21204090738	TW-23	Water	04/05/2012 17:00	04/07/2012 09:45

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090701	**MW-1**	Water	04/05/2012 04:55	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2740	40.0	1.96	ug/L
108-88-3	Toluene	378	40.0	3.10	ug/L
100-41-4	Ethylbenzene	1940	40.0	7.20	ug/L
1330-20-7	Xylene (total)	9660	120	7.04	ug/L
91-20-3	Naphthalene	1120	200	7.00	ug/L
107-06-2	1,2-Dichloroethane	73.7	40.0	4.84	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.682	0.010	0.00290	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	77.9J	200	4.20	ug/L
75-85-4	tert-amyl alcohol (TAA)	3880	800	55.6	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090702	**MW-2**	Water	04/05/2012 09:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	149J	500	14.5	ug/L
108-20-3	diisopropyl Ether (DIPE)	124J	250	5.25	ug/L
75-85-4	tert-amyl alcohol (TAA)	6580	1000	69.5	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	3430	50.0	2.45	ug/L
108-88-3	Toluene	67.4	50.0	3.88	ug/L
100-41-4	Ethylbenzene	676	50.0	9.00	ug/L
1330-20-7	Xylene (total)	1620	150	8.80	ug/L
91-20-3	Naphthalene	542	250	8.75	ug/L
107-06-2	1,2-Dichloroethane	148	50.0	6.05	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090703	MW-3	Water	04/05/2012 09:45	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.013J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	148	1.00	0.049	ug/L
108-88-3	Toluene	1.16	1.00	0.078	ug/L
100-41-4	Ethylbenzene	40.7	1.00	0.180	ug/L
91-20-3	Naphthalene	73.0	5.00	0.175	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	4.64J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	254	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090704	MW-3D	Water	04/05/2012 09:30	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.064	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	62.1	50.0	1.45	ug/L
108-20-3	diisopropyl Ether (DIPE)	43.0	25.0	0.525	ug/L
75-85-4	tert-amyl alcohol (TAA)	2120	100	6.95	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	405	5.00	0.245	ug/L
108-88-3	Toluene	10.7	5.00	0.388	ug/L
100-41-4	Ethylbenzene	115	5.00	0.900	ug/L
1330-20-7	Xylene (total)	83.3	15.0	0.880	ug/L
91-20-3	Naphthalene	73.0	25.0	0.875	ug/L
107-06-2	1,2-Dichloroethane	28.0	5.00	0.605	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090705	MW-4	Water	04/05/2012 17:20	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0066J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	98.3	1.00	0.049	ug/L
100-41-4	Ethylbenzene	26.6	1.00	0.180	ug/L
1330-20-7	Xylene (total)	71.6	3.00	0.176	ug/L
91-20-3	Naphthalene	94.4	5.00	0.175	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00760J	0.010	0.00290	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	8.65J	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.34J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	380	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090706	MW-5	Water	04/05/2012 05:15	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	93.7	10.0	0.490	ug/L
108-88-3	Toluene	26.6	10.0	0.776	ug/L
100-41-4	Ethylbenzene	497	10.0	1.80	ug/L
1330-20-7	Xylene (total)	943	30.0	1.76	ug/L
91-20-3	Naphthalene	242	50.0	1.75	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	139J	200	13.9	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090707	MW-6	Water	04/05/2012 07:00	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	6.49	5.00	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090708	MW-7	Water	04/05/2012 10:00	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.012J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	3.46J	5.00	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090709	MW-8	Water	04/05/2012 11:45	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0038J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1000	20.0	0.980	ug/L
108-88-3	Toluene	86.4	20.0	1.55	ug/L
100-41-4	Ethylbenzene	828	20.0	3.60	ug/L
1330-20-7	Xylene (total)	2420	60.0	3.52	ug/L
91-20-3	Naphthalene	389	100	3.50	ug/L
107-06-2	1,2-Dichloroethane	8.66J	20.0	2.42	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	30.4J	100	2.10	ug/L
75-85-4	tert-amyl alcohol (TAA)	1360	400	27.8	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090710	MW-8D	Water	04/05/2012 11:30	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.027	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090712	MW-10	Water	04/05/2012 07:50	04/07/2012 09:45

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.268	0.010	0.00290	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	1420	400	11.6	ug/L
75-85-4	tert-amyl alcohol (TAA)	3930	800	55.6	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2150	40.0	1.96	ug/L
100-41-4	Ethylbenzene	194	40.0	7.20	ug/L
1330-20-7	Xylene (total)	933	120	7.04	ug/L
91-20-3	Naphthalene	263	200	7.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	259	40.0	3.36	ug/L
107-06-2	1,2-Dichloroethane	57.5	40.0	4.84	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090714	MW-12	Water	04/05/2012 15:00	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2980	40.0	1.96	ug/L
108-88-3	Toluene	221	40.0	3.10	ug/L
100-41-4	Ethylbenzene	485	40.0	7.20	ug/L
1330-20-7	Xylene (total)	1980	120	7.04	ug/L
91-20-3	Naphthalene	204	200	7.00	ug/L
107-06-2	1,2-Dichloroethane	33.6J	40.0	4.84	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	77.5J	200	4.20	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090714	**MW-12**	Water	04/05/2012 15:00	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	6010	800	55.6	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090715	**MW-13**	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	1.95J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	106	20.0	1.39	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	1.34	1.00	0.121	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090716	**MW-14**	Water	04/05/2012 10:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	12.7J	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090717	**MW-15**	Water	04/05/2012 11:15	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	2.87J	10.0	0.290	ug/L
75-85-4	tert-amyl alcohol (TAA)	24.3	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090718	**MW-15D**	Water	04/05/2012 12:15	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	10.1	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	2.07J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	36.7	20.0	1.39	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090718	MW-15D	Water	04/05/2012 12:15	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	5.95	1.00	0.049	ug/L
100-41-4	Ethylbenzene	6.33	1.00	0.180	ug/L
1330-20-7	Xylene (total)	10.9	3.00	0.176	ug/L
91-20-3	Naphthalene	5.91	5.00	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090720	MW-16D	Water	04/05/2012 10:30	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0038J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	1.63J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	49.8	20.0	1.39	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	15.9	1.00	0.049	ug/L
100-41-4	Ethylbenzene	6.10	1.00	0.180	ug/L
1330-20-7	Xylene (total)	12.6	3.00	0.176	ug/L
91-20-3	Naphthalene	6.32	5.00	0.175	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090721	MW-17	Water	04/05/2012 08:40	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	8.20J	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090722	MW-17D	Water	04/05/2012 08:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1.89	1.00	0.049	ug/L
107-06-2	1,2-Dichloroethane	4.74	1.00	0.121	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090722	MW-17D	Water	04/05/2012 08:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	3.54J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	8.81J	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090723	MW-18	Water	04/05/2012 05:30	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0046J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	3.73	1.00	0.049	ug/L
100-41-4	Ethylbenzene	19.0	1.00	0.180	ug/L
1330-20-7	Xylene (total)	21.9	3.00	0.176	ug/L
91-20-3	Naphthalene	4.01J	5.00	0.175	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	7.91J	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090724	MW-18D	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0061J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	31.4	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	93.6	20.0	1.39	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	90.1	1.00	0.049	ug/L
1330-20-7	Xylene (total)	1.17J	3.00	0.176	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090724	MW-18D	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	4.46J	5.00	0.175	ug/L
107-06-2	1,2-Dichloroethane	21.7	1.00	0.121	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090725	MW-19	Water	04/05/2012 13:30	04/07/2012 09:45

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	4.87	1.00	0.049	ug/L
100-41-4	Ethylbenzene	0.328J	1.00	0.180	ug/L
1330-20-7	Xylene (total)	1.01J	3.00	0.176	ug/L
107-06-2	1,2-Dichloroethane	125	1.00	0.121	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	190	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	74.2	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	301	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090726	MW-19D	Water	04/05/2012 13:00	04/07/2012 09:45

SW-846 6010C

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.011J	0.015	0.0028	mg/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	5.71	5.00	0.105	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	3.07	1.00	0.049	ug/L
107-06-2	1,2-Dichloroethane	4.87	1.00	0.121	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090701	**MW-1**	Water	04/05/2012 04:55	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	04/12/2012 15:27	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2740**	**40.0**	**1.96**	**ug/L**
108-88-3	**Toluene**	**378**	**40.0**	**3.10**	**ug/L**
100-41-4	**Ethylbenzene**	**1940**	**40.0**	**7.20**	**ug/L**
1330-20-7	**Xylene (total)**	**9660**	**120**	**7.04**	**ug/L**
91-20-3	**Naphthalene**	**1120**	**200**	**7.00**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	3.36U	40.0	3.36	ug/L
107-06-2	**1,2-Dichloroethane**	**73.7**	**40.0**	**4.84**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2090	ug/L	105	78 - 130
1868-53-7	Dibromofluoromethane	2000	1920	ug/L	96	77 - 127
2037-26-5	Toluene d8	2000	2040	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	2000	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	04/12/2012 15:27	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	42.0U	200	42.0	ug/L
75-65-0	t-Butanol (TBA)	11.6U	400	11.6	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**77.9J**	**200**	**4.20**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	44.4U	200	44.4	ug/L
624-95-3	ethyl tert-butanol (ETBA)	1500U	4000	1500	ug/L
64-17-5	Ethanol	3270U	4000	3270	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**3880**	**800**	**55.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	86.4U	200	86.4	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2090	ug/L	105	78 - 130
1868-53-7	Dibromofluoromethane	2000	1920	ug/L	96	77 - 127
2037-26-5	Toluene d8	2000	2040	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	2000	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 15:22	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.682**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090701	**MW-1**	Water	04/05/2012 04:55	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 14:41	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090702	**MW-2**	Water	04/05/2012 09:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/12/2012 13:15	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**3430**	**50.0**	**2.45**	**ug/L**
108-88-3	**Toluene**	**67.4**	**50.0**	**3.88**	**ug/L**
100-41-4	**Ethylbenzene**	**676**	**50.0**	**9.00**	**ug/L**
1330-20-7	**Xylene (total)**	**1620**	**150**	**8.80**	**ug/L**
91-20-3	**Naphthalene**	**542**	**250**	**8.75**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	4.20U	50.0	4.20	ug/L
107-06-2	**1,2-Dichloroethane**	**148**	**50.0**	**6.05**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2460	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	2500	2470	ug/L	99	77 - 127
2037-26-5	Toluene d8	2500	2630	ug/L	105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2420	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	04/12/2012 13:15	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	52.5U	250	52.5	ug/L
75-65-0	**t-Butanol (TBA)**	**149J**	**500**	**14.5**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**124J**	**250**	**5.25**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	55.5U	250	55.5	ug/L
624-95-3	ethyl tert-butanol (ETBA)	1880U	5000	1880	ug/L
64-17-5	Ethanol	4090U	5000	4090	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**6580**	**1000**	**69.5**	**ug/L**
762-75-4	tert-butyl formate (TBF)	108U	250	108	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2460	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	2500	2470	ug/L	99	77 - 127
2037-26-5	Toluene d8	2500	2630	ug/L	105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2420	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 15:43	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090702	**MW-2**	Water	04/05/2012 09:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 14:48	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090703	**MW-3**	Water	04/05/2012 09:45	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 10:32	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**148**	**1.00**	**0.049**	**ug/L**
108-88-3	**Toluene**	**1.16**	**1.00**	**0.078**	**ug/L**
100-41-4	**Ethylbenzene**	**40.7**	**1.00**	**0.180**	**ug/L**
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	**Naphthalene**	**73.0**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.7	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	52	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	56.9	ug/L	114	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 10:32	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**4.64J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**254**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.7	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	48.1	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	52	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	56.9	ug/L	114	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 16:04	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090703	**MW-3**	Water	04/05/2012 09:45	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 14:56	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.013J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090704	**MW-3D**	Water	04/05/2012 09:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	04/12/2012 13:39	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**405**	**5.00**	**0.245**	**ug/L**
108-88-3	**Toluene**	**10.7**	**5.00**	**0.388**	**ug/L**
100-41-4	**Ethylbenzene**	**115**	**5.00**	**0.900**	**ug/L**
1330-20-7	**Xylene (total)**	**83.3**	**15.0**	**0.880**	**ug/L**
91-20-3	**Naphthalene**	**73.0**	**25.0**	**0.875**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.420U	5.00	0.420	ug/L
107-06-2	**1,2-Dichloroethane**	**28.0**	**5.00**	**0.605**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	247	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	250	241	ug/L	96	77 - 127
2037-26-5	Toluene d8	250	260	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	249	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	04/12/2012 13:39	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	5.25U	25.0	5.25	ug/L
75-65-0	**t-Butanol (TBA)**	**62.1**	**50.0**	**1.45**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**43.0**	**25.0**	**0.525**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	5.55U	25.0	5.55	ug/L
624-95-3	ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	409U	500	409	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**2120**	**100**	**6.95**	**ug/L**
762-75-4	tert-butyl formate (TBF)	10.8U	25.0	10.8	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	247	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	250	241	ug/L	96	77 - 127
2037-26-5	Toluene d8	250	260	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	249	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 16:26	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090704	**MW-3D**	Water	04/05/2012 09:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 13:43	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.064**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090705	**MW-4**	Water	04/05/2012 17:20	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 10:53	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**98.3**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	**Ethylbenzene**	**26.6**	**1.00**	**0.180**	**ug/L**
1330-20-7	**Xylene (total)**	**71.6**	**3.00**	**0.176**	**ug/L**
91-20-3	**Naphthalene**	**94.4**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	50.2	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 10:53	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	**t-Butanol (TBA)**	**8.65J**	**10.0**	**0.290**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**2.34J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**380**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	50.2	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 16:47	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.00760J**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090705	**MW-4**	Water	04/05/2012 17:20	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 15:03	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.0066J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090706	**MW-5**	Water	04/05/2012 05:15	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/12/2012 14:03	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**93.7**	**10.0**	**0.490**	**ug/L**
108-88-3	**Toluene**	**26.6**	**10.0**	**0.776**	**ug/L**
100-41-4	**Ethylbenzene**	**497**	**10.0**	**1.80**	**ug/L**
1330-20-7	**Xylene (total)**	**943**	**30.0**	**1.76**	**ug/L**
91-20-3	**Naphthalene**	**242**	**50.0**	**1.75**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.839U	10.0	0.839	ug/L
107-06-2	1,2-Dichloroethane	1.21U	10.0	1.21	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	502	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	500	512	ug/L	102	77 - 127
2037-26-5	Toluene d8	500	510	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	492	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	04/12/2012 14:03	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	10.5U	50.0	10.5	ug/L
75-65-0	t-Butanol (TBA)	2.90U	100	2.90	ug/L
108-20-3	diisopropyl Ether (DIPE)	1.05U	50.0	1.05	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	11.1U	50.0	11.1	ug/L
624-95-3	ethyl tert-butanol (ETBA)	376U	1000	376	ug/L
64-17-5	Ethanol	818U	1000	818	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**139J**	**200**	**13.9**	**ug/L**
762-75-4	tert-butyl formate (TBF)	21.6U	50.0	21.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	502	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	500	512	ug/L	102	77 - 127
2037-26-5	Toluene d8	500	510	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	492	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 17:08	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090706	**MW-5**	Water	04/05/2012 05:15	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 15:09	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090707	**MW-6**	Water	04/05/2012 07:00	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 11:15	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	**Naphthalene**	**6.49**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	52.6	ug/L	105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 11:15	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	52.6	ug/L	105	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 17:30	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090707	**MW-6**	Water	04/05/2012 07:00	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 15:17	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090708	**MW-7**	Water	04/05/2012 10:00	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 11:36	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	**Naphthalene**	**3.46J**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	52.2	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 11:36	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	52.2	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 17:51	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090708	**MW-7**	Water	04/05/2012 10:00	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 15:24	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.012J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090709	**MW-8**	Water	04/05/2012 11:45	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/12/2012 14:24	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**1000**	**20.0**	**0.980**	**ug/L**
108-88-3	**Toluene**	**86.4**	**20.0**	**1.55**	**ug/L**
100-41-4	**Ethylbenzene**	**828**	**20.0**	**3.60**	**ug/L**
1330-20-7	**Xylene (total)**	**2420**	**60.0**	**3.52**	**ug/L**
91-20-3	**Naphthalene**	**389**	**100**	**3.50**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	1.68U	20.0	1.68	ug/L
107-06-2	**1,2-Dichloroethane**	**8.66J**	**20.0**	**2.42**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1020	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1000	1000	ug/L	100	77 - 127
2037-26-5	Toluene d8	1000	1020	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	992	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	04/12/2012 14:24	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	21.0U	100	21.0	ug/L
75-65-0	t-Butanol (TBA)	5.80U	200	5.80	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**30.4J**	**100**	**2.10**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	22.2U	100	22.2	ug/L
624-95-3	ethyl tert-butanol (ETBA)	752U	2000	752	ug/L
64-17-5	Ethanol	1640U	2000	1640	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1360**	**400**	**27.8**	**ug/L**
762-75-4	tert-butyl formate (TBF)	43.2U	100	43.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1020	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1000	1000	ug/L	100	77 - 127
2037-26-5	Toluene d8	1000	1020	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	992	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 18:12	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090709	**MW-8**	Water	04/05/2012 11:45	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 18:59	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.0038J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090710	**MW-8D**	Water	04/05/2012 11:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 13:01	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	51.4	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	51.5	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 13:01	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.3	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	51.4	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	51.5	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.3	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 18:33	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090710	**MW-8D**	Water	04/05/2012 11:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 19:06	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.027**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090711	**MW-9**	Water	04/05/2012 09:00	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 13:22	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48	ug/L	96	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 13:22	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48	ug/L	96	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 19:16	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090711	**MW-9**	Water	04/05/2012 09:00	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 19:13	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090712	**MW-10**	Water	04/05/2012 07:50	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	04/12/2012 14:45	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2150**	**40.0**	**1.96**	**ug/L**
108-88-3	Toluene	3.10U	40.0	3.10	ug/L
100-41-4	**Ethylbenzene**	**194**	**40.0**	**7.20**	**ug/L**
1330-20-7	**Xylene (total)**	**933**	**120**	**7.04**	**ug/L**
91-20-3	**Naphthalene**	**263**	**200**	**7.00**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**259**	**40.0**	**3.36**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**57.5**	**40.0**	**4.84**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2020	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	2000	1980	ug/L	99	77 - 127
2037-26-5	Toluene d8	2000	2050	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1900	ug/L	95	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	04/12/2012 14:45	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	42.0U	200	42.0	ug/L
75-65-0	**t-Butanol (TBA)**	**1420**	**400**	**11.6**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	4.20U	200	4.20	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	44.4U	200	44.4	ug/L
624-95-3	ethyl tert-butanol (ETBA)	1500U	4000	1500	ug/L
64-17-5	Ethanol	3270U	4000	3270	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**3930**	**800**	**55.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	86.4U	200	86.4	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	2020	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	2000	1980	ug/L	99	77 - 127
2037-26-5	Toluene d8	2000	2050	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1900	ug/L	95	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 19:37	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.268**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090712	**MW-10**	Water	04/05/2012 07:50	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 19:21	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090713	**MW-11**	Water	04/05/2012 17:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 14:51	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 14:51	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	51.6	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 19:58	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090713	**MW-11**	Water	04/05/2012 17:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 19:28	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090714	**MW-12**	Water	04/05/2012 15:00	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	04/12/2012 15:06	EDS	478465

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2980**	**40.0**	**1.96**	**ug/L**
108-88-3	**Toluene**	**221**	**40.0**	**3.10**	**ug/L**
100-41-4	**Ethylbenzene**	**485**	**40.0**	**7.20**	**ug/L**
1330-20-7	**Xylene (total)**	**1980**	**120**	**7.04**	**ug/L**
91-20-3	**Naphthalene**	**204**	**200**	**7.00**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	3.36U	40.0	3.36	ug/L
107-06-2	**1,2-Dichloroethane**	**33.6J**	**40.0**	**4.84**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	1990	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	2000	1950	ug/L	98	77 - 127
2037-26-5	Toluene d8	2000	2070	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1940	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			40	04/12/2012 15:06	EDS	478462

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	42.0U	200	42.0	ug/L
75-65-0	t-Butanol (TBA)	11.6U	400	11.6	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**77.5J**	**200**	**4.20**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	44.4U	200	44.4	ug/L
624-95-3	ethyl tert-butanol (ETBA)	1500U	4000	1500	ug/L
64-17-5	Ethanol	3270U	4000	3270	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**6010**	**800**	**55.6**	**ug/L**
762-75-4	tert-butyl formate (TBF)	86.4U	200	86.4	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2000	1990	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	2000	1950	ug/L	98	77 - 127
2037-26-5	Toluene d8	2000	2070	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2000	1940	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 20:20	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090714	**MW-12**	Water	04/05/2012 15:00	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 19:36	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090715	**MW-13**	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:13	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**1.34**	**1.00**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	51.9	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:13	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**1.95J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**106**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.8	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	51.9	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 20:41	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090715	**MW-13**	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 12:35	478291	SW-846 3010A	1	04/13/2012 19:43	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090716	**MW-14**	Water	04/05/2012 10:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:34	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.3	ug/L	95	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:34	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**12.7J**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.3	ug/L	95	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 21:03	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090716	**MW-14**	Water	04/05/2012 10:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 20:56	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090717	**MW-15**	Water	04/05/2012 11:15	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:56	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	51	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:56	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	**t-Butanol (TBA)**	**2.87J**	**10.0**	**0.290**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**24.3**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	51	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.3	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 21:24	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090717	**MW-15**	Water	04/05/2012 11:15	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 21:03	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090718	**MW-15D**	Water	04/05/2012 12:15	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:17	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**5.95**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	**Ethylbenzene**	**6.33**	**1.00**	**0.180**	**ug/L**
1330-20-7	**Xylene (total)**	**10.9**	**3.00**	**0.176**	**ug/L**
91-20-3	**Naphthalene**	**5.91**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51.3	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.5	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:17	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	**t-Butanol (TBA)**	**10.1**	**10.0**	**0.290**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**2.07J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**36.7**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51.3	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.5	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 21:46	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090718	**MW-15D**	Water	04/05/2012 12:15	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 21:11	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090719	**MW-16**	Water	04/05/2012 10:45	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:38	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:38	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 11:50	478271	SW-846 8011	1	04/12/2012 22:08	SMH	478544

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090719	**MW-16**	Water	04/05/2012 10:45	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 21:18	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090720	**MW-16D**	Water	04/05/2012 10:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:59	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**15.9**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	**Ethylbenzene**	**6.10**	**1.00**	**0.180**	**ug/L**
1330-20-7	**Xylene (total)**	**12.6**	**3.00**	**0.176**	**ug/L**
91-20-3	**Naphthalene**	**6.32**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.3	ug/L	95	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:59	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**1.63J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**49.8**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.3	ug/L	95	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/11/2012 23:16	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090720	**MW-16D**	Water	04/05/2012 10:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 21:26	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.0038J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090721	**MW-17**	Water	04/05/2012 08:40	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:21	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	51.6	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:21	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**8.20J**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	51.6	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/11/2012 23:37	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090721	**MW-17**	Water	04/05/2012 08:40	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 21:48	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090722	**MW-17D**	Water	04/05/2012 08:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:42	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**1.89**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**4.74**	**1.00**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:42	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**3.54J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**8.81J**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.4	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	51.1	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/11/2012 23:59	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090722	**MW-17D**	Water	04/05/2012 08:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 21:55	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090723	**MW-18**	Water	04/05/2012 05:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:03	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**3.73**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	**Ethylbenzene**	**19.0**	**1.00**	**0.180**	**ug/L**
1330-20-7	**Xylene (total)**	**21.9**	**3.00**	**0.176**	**ug/L**
91-20-3	**Naphthalene**	**4.01J**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:03	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**7.91J**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	51	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.3	ug/L	105	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/12/2012 00:20	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090723	**MW-18**	Water	04/05/2012 05:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 22:03	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.0046J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090724	**MW-18D**	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:24	EDS	478380

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**90.1**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	**Xylene (total)**	**1.17J**	**3.00**	**0.176**	**ug/L**
91-20-3	**Naphthalene**	**4.46J**	**5.00**	**0.175**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**21.7**	**1.00**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	48.8	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	51.6	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:24	EDS	478372

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**31.4**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**93.6**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.7	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	50	48.8	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	51.6	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/12/2012 00:41	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090724	**MW-18D**	Water	04/05/2012 14:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 22:10	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.0061J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090725	**MW-19**	Water	04/05/2012 13:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/13/2012 13:38	CLH	478585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**4.87**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	**Ethylbenzene**	**0.328J**	**1.00**	**0.180**	**ug/L**
1330-20-7	**Xylene (total)**	**1.01J**	**3.00**	**0.176**	**ug/L**
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**125**	**1.00**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.5	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	51.5	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.9	ug/L	94	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/13/2012 13:38	CLH	478584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	**t-Butanol (TBA)**	**190**	**10.0**	**0.290**	**ug/L**
108-20-3	**diisopropyl Ether (DIPE)**	**74.2**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**301**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.5	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	51.5	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.9	ug/L	94	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/12/2012 01:24	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090725	**MW-19**	Water	04/05/2012 13:30	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 22:16	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090726	**MW-19D**	Water	04/05/2012 13:00	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/13/2012 13:59	CLH	478585

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**3.07**	**1.00**	**0.049**	**ug/L**
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	**1,2-Dichloroethane**	**4.87**	**1.00**	**0.121**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52	ug/L	104	78 - 130
1868-53-7	Dibromofluoromethane	50	51.3	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/13/2012 13:59	CLH	478584

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**5.71**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	5.00	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52	ug/L	104	78 - 130
1868-53-7	Dibromofluoromethane	50	51.3	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	50.6	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.7	ug/L	95	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/12/2012 01:46	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090726	**MW-19D**	Water	04/05/2012 13:00	04/07/2012 09:45

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/10/2012 13:15	478292	SW-846 3010A	1	04/13/2012 20:21	CLB	478564

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	**Lead**	**0.011J**	**0.015**	**0.0028**	**mg/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090727	**PW-1**	Water	04/05/2012 15:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 15:40	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.8	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/12/2012 02:07	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090728	**PW-2**	Water	04/05/2012 16:20	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:00	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L
107-06-2	1,2-Dichloroethane	0.121U	1.00	0.121	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.8	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	49.3	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
04/11/2012 07:00	478272	SW-846 8011	1	04/12/2012 02:29	SMH	478467

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090729	**TW-14**	Water	04/05/2012 17:45	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:22	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	50.3	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.8	ug/L	102	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090730	**TW-15**	Water	04/05/2012 17:40	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 16:43	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.4	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	50	50	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	50.5	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090731	**TW-16**	Water	04/05/2012 17:25	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:03	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.7	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	49.7	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	50.3	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090732	**TW-17**	Water	04/05/2012 17:30	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:24	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.7	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.2	ug/L	102	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090733	**TW-18**	Water	04/05/2012 17:25	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 17:45	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	51	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	48.8	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090734	**TW-19**	Water	04/05/2012 17:20	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:06	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	49.9	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.4	ug/L	99	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090735	**TW-20**	Water	04/05/2012 17:15	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:26	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.6	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.5	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090736	**TW-21**	Water	04/05/2012 17:10	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 18:47	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.2	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090737	**TW-22**	Water	04/05/2012 17:05	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 19:08	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.2	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21204090738	**TW-23**	Water	04/05/2012 17:00	04/07/2012 09:45

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	04/11/2012 19:29	CGC	478382

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.049U	1.00	0.049	ug/L
108-88-3	Toluene	0.078U	1.00	0.078	ug/L
100-41-4	Ethylbenzene	0.180U	1.00	0.180	ug/L
1330-20-7	Xylene (total)	0.176U	3.00	0.176	ug/L
91-20-3	Naphthalene	0.175U	5.00	0.175	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	1.00	0.084	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.4	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	71 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch 478380	**Client ID**	MB478380	LCS478380	
Prep Batch N/A	**GCAL ID**	1050683	1050684	
	Sample Type	Method Blank	LCS	
	Analytical Date	04/11/2012 09:05	04/11/2012 08:10	
	Matrix	Water	Water	

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	52.7	105	71 - 129
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.3	105	74 - 126
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	49.9	100	71 - 125
1330-20-7	Xylene (total)	0.176U	0.176	150	155	103	74 - 127
91-20-3	Naphthalene	0.175U	0.175	50.0	45.7	91	57 - 138
71-43-2	Benzene	0.049U	0.049	50.0	51.9	104	70 - 129
108-88-3	Toluene	0.078U	0.078	50.0	50.3	101	72 - 120
Surrogate							
460-00-4	4-Bromofluorobenzene	48.4	97	50	51	102	78 - 130
1868-53-7	Dibromofluoromethane	51.1	102	50	49.5	99	77 - 127
2037-26-5	Toluene d8	52.5	105	50	49.2	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	47.8	96	50	49.9	100	71 - 127

Analytical Batch 478382	**Client ID**	MB478382	LCS478382	LCSD478382
Prep Batch N/A	**GCAL ID**	1050716	1050717	1050718
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	04/11/2012 10:08	04/11/2012 08:54	04/11/2012 09:27
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	49.3	99	71 - 129	46.7	93	5	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	52.3	105	74 - 126	48.3	97	8	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	48.6	97	71 - 125	48.2	96	0.8	30
1330-20-7	Xylene (total)	0.176U	0.176	150	154	103	74 - 127	144	96	7	30
91-20-3	Naphthalene	0.175U	0.175	50.0	47.1	94	57 - 138	49.4	99	5	35
71-43-2	Benzene	0.049U	0.049	50.0	53.4	107	70 - 129	49.9	100	7	20
108-88-3	Toluene	0.078U	0.078	50.0	51.7	103	72 - 120	48.1	96	7	20
Surrogate											
460-00-4	4-Bromofluorobenzene	47.4	95	50	48.4	97	78 - 130	48.6	97		
1868-53-7	Dibromofluoromethane	48.8	98	50	50.4	101	77 - 127	50	100		
2037-26-5	Toluene d8	49.2	98	50	48.9	98	76 - 134	49.2	98		
17060-07-0	1,2-Dichloroethane-d4	49.6	99	50	48	96	71 - 127	49.5	99		

GC/MS Volatiles Quality Control Summary

Analytical Batch	478465	**Client ID**	MB478465			LCS478465				LCSD478465		
Prep Batch	N/A	**GCAL ID**	1051148			1051149				1051150		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	04/12/2012 08:22			04/12/2012 06:22				04/12/2012 06:43		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	51.5	103	71 - 129		51.3	103	0.4	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	51.4	103	74 - 126		51.6	103	0.4	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	48.6	97	71 - 125		50.0	100	3	30
1330-20-7	Xylene (total)	0.176U	0.176	150	154	103	74 - 127		153	102	0.7	30
91-20-3	Naphthalene	0.175U	0.175	50.0	41.2	82	57 - 138		45.0	90	9	35
71-43-2	Benzene	0.049U	0.049	50.0	51.8	104	70 - 129		51.0	102	2	20
108-88-3	Toluene	0.078U	0.078	50.0	49.8	100	72 - 120		51.0	102	2	20
Surrogate												
460-00-4	4-Bromofluorobenzene	48.1	96	50	49.6	99	78 - 130		50.5	101		
1868-53-7	Dibromofluoromethane	50.2	100	50	48.9	98	77 - 127		49	98		
2037-26-5	Toluene d8	50.3	101	50	48.8	98	76 - 134		50.6	101		
17060-07-0	1,2-Dichloroethane-d4	46.9	94	50	48.1	96	71 - 127		48.5	97		

Analytical Batch	478585	**Client ID**	MB478585			LCS478585				LCSD478585		
Prep Batch	N/A	**GCAL ID**	1052044			1052045				1052046		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	04/13/2012 13:16			04/13/2012 12:12				04/13/2012 12:33		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
107-06-2	1,2-Dichloroethane	0.121U	0.121	50.0	50.2	100	71 - 129		49.9	100	0.6	30
100-41-4	Ethylbenzene	0.180U	0.180	50.0	49.7	99	74 - 126		48.6	97	2	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.084U	0.084	50.0	49.2	98	71 - 125		49.4	99	0.4	30
1330-20-7	Xylene (total)	0.176U	0.176	150	149	99	74 - 127		143	95	4	30
91-20-3	Naphthalene	0.175U	0.175	50.0	48.4	97	57 - 138		47.7	95	1	35
71-43-2	Benzene	0.049U	0.049	50.0	49.9	100	70 - 129		48.8	98	2	20
108-88-3	Toluene	0.078U	0.078	50.0	47.7	95	72 - 120		46.3	93	3	20
Surrogate												
460-00-4	4-Bromofluorobenzene	51.7	103	50	52.4	105	78 - 130		52	104		
1868-53-7	Dibromofluoromethane	51.3	103	50	49.7	99	77 - 127		50.1	100		
2037-26-5	Toluene d8	50.9	102	50	48.1	96	76 - 134		48.6	97		
17060-07-0	1,2-Dichloroethane-d4	47.6	95	50	50.7	101	71 - 127		51.5	103		

GC/MS Volatiles Quality Control Summary

Analytical Batch 478372	**Client ID**	MB478372	LCS478372	
Prep Batch N/A	**GCAL ID**	1050631	1050632	
	Sample Type	Method Blank	LCS	
	Analytical Date	04/11/2012 09:05	04/11/2012 08:10	
	Matrix	Water	Water	

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	55.3	111	50 - 150
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	41.8	84	50 - 150
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	56.5	113	50 - 150
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	56.3	113	50 - 150
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2590	102	50 - 150
64-17-5	Ethanol	81.8U	81.8	25200	24400	97	50 - 150
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	162	81	50 - 150
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	53.4	107	50 - 150
Surrogate							
460-00-4	4-Bromofluorobenzene	48.4	97	50	51	102	78 - 130
1868-53-7	Dibromofluoromethane	51.1	102	50	49.5	99	77 - 127
2037-26-5	Toluene d8	52.5	105	50	49.2	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	47.8	96	50	49.9	100	71 - 127

Analytical Batch 478462	**Client ID**	MB478462	LCS478462	LCSD478462
Prep Batch N/A	**GCAL ID**	1051138	1051139	1051140
	Sample Type	Method Blank	LCS	LCSD
	Analytical Date	04/12/2012 08:22	04/12/2012 06:22	04/12/2012 06:43
	Matrix	Water	Water	Water

SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	57.5	115	50 - 150	58.1	116	1	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	44.0	88	50 - 150	42.5	85	3	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	58.0	116	50 - 150	57.9	116	0.2	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	59.5	119	50 - 150	60.0	120	0.8	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2220	87	50 - 150	2370	93	7	50
64-17-5	Ethanol	81.8U	81.8	25200	22800	90	50 - 150	21300	85	7	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	162	81	50 - 150	168	84	4	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	57.3	115	50 - 150	56.2	112	2	50
Surrogate											
460-00-4	4-Bromofluorobenzene	48.1	96	50	49.6	99	78 - 130	50.5	101		
1868-53-7	Dibromofluoromethane	50.2	100	50	48.9	98	77 - 127	49	98		

GC/MS Volatiles Quality Control Summary

Analytical Batch	478462	**Client ID**	MB478462			LCS478462				LCSD478462		
Prep Batch	N/A	**GCAL ID**	1051138			1051139				1051140		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	04/12/2012 08:22			04/12/2012 06:22				04/12/2012 06:43		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
2037-26-5	Toluene d8	50.3	101	50	48.8	98	76 - 134		50.6	101		
17060-07-0	1,2-Dichloroethane-d4	46.9	94	50	48.1	96	71 - 127		48.5	97		

Analytical Batch	478584	**Client ID**	MB478584			LCS478584				LCSD478584		
Prep Batch	N/A	**GCAL ID**	1052041			1052042				1052043		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	04/13/2012 13:16			04/13/2012 12:12				04/13/2012 12:33		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	52.9	106	50 - 150		52.9	106	0	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	49.8	100	50 - 150		49.7	99	0.2	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	52.2	104	50 - 150		51.8	104	0.8	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	53.5	107	50 - 150		53.1	106	0.8	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2710	106	50 - 150		2690	105	0.7	50
64-17-5	Ethanol	81.8U	81.8	25200	22000	87	50 - 150		22100	88	0.5	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	208	104	50 - 150		210	105	1	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	51.8	104	50 - 150		49.3	99	5	50
Surrogate												
460-00-4	4-Bromofluorobenzene	51.7	103	50	52.4	105	78 - 130		52	104		
1868-53-7	Dibromofluoromethane	51.3	103	50	49.7	99	77 - 127		50.1	100		
2037-26-5	Toluene d8	50.9	102	50	48.1	96	76 - 134		48.6	97		
17060-07-0	1,2-Dichloroethane-d4	47.6	95	50	50.7	101	71 - 127		51.5	103		

General Chromatography Quality Control Summary

Analytical Batch	478467	**Client ID**	MB478272			LCS478272			LCSD478272			
Prep Batch	478272	**GCAL ID**	1050112			1050113			1050114			
Prep Method	SW-846 8011	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	04/11/2012 07:00			04/11/2012 07:00			04/11/2012 07:00			
		Analytical Date	04/11/2012 22:11			04/11/2012 22:32			04/11/2012 22:54			
		Matrix	Water			Water			Water			
SW-846 8011		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
106-93-4	1,2-Dibromoethane	0.00290U	0.00290	1.10	0.765	70	55 - 141	0.760	70	0.7	40	

Analytical Batch	478544	**Client ID**	MB478271			LCS478271			LCSD478271			
Prep Batch	478271	**GCAL ID**	1050109			1050110			1050111			
Prep Method	SW-846 8011	**Sample Type**	Method Blank			LCS			LCSD			
		Prep Date	04/11/2012 11:50			04/11/2012 11:50			04/11/2012 11:50			
		Analytical Date	04/12/2012 12:20			04/12/2012 13:53			04/12/2012 14:15			
		Matrix	Water			Water			Water			
SW-846 8011		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
106-93-4	1,2-Dibromoethane	0.00290U	0.00290	1.06	0.991	94	55 - 141	1.05	99	6	40	

Inorganics Quality Control Summary

Analytical Batch	478564	**Client ID**	MB478291		LCS478291
Prep Batch	478291	**GCAL ID**	1050175		1050176
Prep Method	SW-846 3010A	**Sample Type**	Method Blank		LCS
		Prep Date	04/10/2012 12:35		04/10/2012 12:35
		Analytical Date	04/13/2012 13:28		04/13/2012 13:36
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7439-92-1	Lead	0.0028U	0.0028	0.50	0.50	101	80 - 120

Analytical Batch	478564	**Client ID**	MB478292		LCS478292
Prep Batch	478292	**GCAL ID**	1050179		1050180
Prep Method	SW-846 3010A	**Sample Type**	Method Blank		LCS
		Prep Date	04/10/2012 13:15		04/10/2012 13:15
		Analytical Date	04/13/2012 19:51		04/13/2012 19:58
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7439-92-1	Lead	0.0028U	0.0028	0.50	0.45	90	80 - 120

Analytical Batch	478564	**Client ID**	MW-3D		1049901MS
Prep Batch	478291	**GCAL ID**	21204090704		1050178
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE		MS
		Prep Date	04/10/2012 12:35		04/10/2012 12:35
		Analytical Date	04/13/2012 13:43		04/13/2012 14:20
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L				
		Result	**RDL**	**Spike Added**	**Result**	**% R**	**Control Limits % R**
7439-92-1	Lead	0.064	0.0028	0.50	0.56	99	75 - 125

Inorganics Quality Control Summary

Analytical Batch	478564	**Client ID**	MW-19D		1049930MS		
Prep Batch	478292	**GCAL ID**	21204090726		1050182		
Prep Method	SW-846	**Sample Type**	SAMPLE		MS		
	3010A	**Prep Date**	04/10/2012 13:15		04/10/2012 13:15		
		Analytical Date	04/13/2012 20:21		04/13/2012 20:35		
		Matrix	Water		Water		
SW-846 6010C		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-92-1	Lead	0.011	0.0028	0.50	0.46	90	75 - 125

Analytical Batch	478564	**Client ID**	MW-3D		1049901DUP		
Prep Batch	478291	**GCAL ID**	21204090704		1050177		
Prep Method	SW-846	**Sample Type**	SAMPLE		DUP		
	3010A	**Prep Date**	04/10/2012 12:35		04/10/2012 12:35		
		Analytical Date	04/13/2012 13:43		04/13/2012 13:51		
		Matrix	Water		Water		
SW-846 6010C		**Units**	mg/L	**Result**		**RPD**	
		Result	**RDL**		**RPD**	**Limit**	
7439-92-1	Lead	0.064	0.0028	0.064	0	20	

Analytical Batch	478564	**Client ID**	MW-19D		1049930DUP		
Prep Batch	478292	**GCAL ID**	21204090726		1050181		
Prep Method	SW-846	**Sample Type**	SAMPLE		DUP		
	3010A	**Prep Date**	04/10/2012 13:15		04/10/2012 13:15		
		Analytical Date	04/13/2012 20:21		04/13/2012 20:28		
		Matrix	Water		Water		
SW-846 6010C		**Units**	mg/L	**Result**		**RPD**	
		Result	**RDL**		**RPD**	**Limit**	
7439-92-1	Lead	0.011	0.0028	0.0088	**22***	20	

ACCESS/214605/212040907/4-13-12

LAB USE ONLY

Access Analytical - Chain of Custody Record

Sales Order # | PO # | Access Quote # | Project Work Order # | Laboratory ID:

Company Name: TERRACON
Report To: William Walker
Address: 521 Clemson Rd
City: Columbia State: SC Zip: 29229
Phone: 8037419080 Fax: 8037419400
Email: WCWalker@Terracon.com
Project ID: EDDIES Pitt Stop
Sampled By: WALKER / AKRE

Preservative (*see codes): 1 | 1 | 1 | 2
Container Type (*see codes): G | G | G | P

Access Analytical, Inc.
7478 Carlisle Street, Irmo, SC 29063
Phone: (803) 781-4243 Fax: 781-4303
www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAc, 8 = H3PO4

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

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

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected	Time Collected	Type (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected per analysis: BTEX MAPH MTBE DCA	OXYGENATES	EDB	LEAD	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-1	4.5.12	455	G	GW	CWA	7	2	2	2	1	1
MW-2	4.5.12	0930	G	GW	CWA	7	2	2	2	1	2
MW-3	4.5.12	945	G	GW	CWA	7	2	2	2	1	3
MW-3D	4.5.12	930	G	GW	CWA	7	2	2	2	1	4
MW-4	4.5.12	1720	G	GW	CWA	7	2	2	2	1	5
MW-5	4.5.12	515	G	GW	CWA	7	2	2	2	1	6
MW-6	4.5.12	700	G	GW	CWA	7	2	2	2	1	7
MW-7	4.5.12	1000	G	GW	CWA	7	2	2	2	1	8
MW-8	4.5.12	1145	G	GW	CWA	7	2	2	2	1	9
MW-8D	4.5.12	1130	G	GW	CWA	7	2	2	2	1	10

Turnaround Time:
- X Standard
- ___ RUSH*
- *Date Required: ___
- (For rush work, results emailed/faxed by end of business day on date required)

Project Location:
- X SC
- ___ NC
- ___ Other
- (specify) ___

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C)	
		04/06/12	1330	___(°C)	___(N/A)
FedEx	CJaucies	4/7/12	945	5.8 (°C)	___(N/A)
				1.9 (°C)	___(N/A)
8753 8642 1080	851770025193			___(°C)	___(N/A)

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Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____ Project Work Order #: _____ Laboratory ID: _____

Company Name: TERRACON
Report To: William WALKER
Address: 521 Chemsond Rd
City: Columbia State: SC Zip: 29229
Phone: 803 741 9000 Fax: 803 741 9900
Email: WCWALKER@TERRACON.COM
Project ID: EDDIES Pit Stop
Sampled By: WALKER / WALKER

Preservative: (*see codes) 1 1 1 1 2
Container Type: (*see codes)

REQUESTED LAB ANALYSIS:

Sample ID/Description	Date Collected	Time Collected	Type: (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected per analysis	BTEX MMPH MTBE DCA	OXYGENATES	EDB	LEAD	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-9	4.5.12	0900	G	GW	CWA	7		2	2	2	1	11
MW-10	4.5.12	750	G	GW	CWA	7		2	2	2	1	12
MW-11	4.5.12	1730	G	GW	CWA	7		2	2	2	1	13
MW-12	4.5.12	1500	G	GW	CWA	7		2	2	2	1	14
MW-13	4.5.12	1430	G	GW	CWA	7		2	2	2	1	15
MW-14	4.5.12	1030	G	GW	CWA	7		2	2	2	1	16
MW-15	4.5.12	1115	G	GW	CWA	7		2	2	2	1	17
MW-15d	4.5.12	1215	G	GW	CWA	7		2	2	2	1	18
MW-16	4.5.12	1045	G	GW	CWA	7		2	2	2	1	19
MW-16d	4.5.12	1035	G	GW	CWA	7		2	2	2	1	20

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

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH_3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4

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

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:
- ✓ Standard
- ___ RUSH*
- *Date Required: 8/30
- (For rush work, results emailed/faxed by end of business day on date required)

Project Location:
- ✓ SC
- ___ NC
- ___ Other
- (specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C)	
[signature]		04/06/12	1330	_____(°C)	_____(N/A)
FedEx	CJaucier	4/7/12	945	_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)

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LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____

Project Work Order #: _____

Laboratory ID: _____

Company Name: TERRACON

Report To: William Walker

Address: 621 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803 741 9900 Fax: 803 741 9900

Email: WCWALKER@TERRACON.com

Project ID: EDDIES Pit stop

Sampled By: Walker / AKRE

Preservative: (*see codes)

Container Type: (*see codes)

REQUESTED LAB ANALYSIS:

Sample ID/Description	Date Collected	Time Collected	Type: (grab or composite)	Matrix: (see codes)	Program: Area (see codes)	TOTAL # of containers	# of containers collected per analysis: BTEX + NAPHTHALENE + DCA	# of containers collected per analysis: OXYGENATES	# of containers collected per analysis: EDB	# of containers collected per analysis: LEAD	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-17	4.5.12	840	C	GW	CWA	7	2	2	2	1	21
MW-17d	4.5.12	830	C	GW	CWA	7	2	2	2	1	22
MW-18	4.5.12	530	C	GW	CWA	7	2	2	2	1	23
MW-18d	4.5.12	1430	C	GW	CWA	7	2	2	2	1	24
MW-19	4.5.12	1330	C	GW	CWA	7	2	2	2	1	25
MW-19d	4.5.12	1300	C	GW	CWA	7	2	2	2	1	26
PW-1	4.5.12	1530	C	GW	CWA	4	2		2		27
PW-2	4.5.12	1620	C	GW	CWA	4	2		2		28

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

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:

X Standard

___ RUSH*

*Date Required: _____

*For rush work, results emailed/faxed by end of business day on date required)

Project Location:

~~X~~ SC

___ NC

___ Other

(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C):	
[signature]		04/06/12	1330	_____(°C)	_____(N/A)
FedEx	[signature]	4/7/12	945	_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)
				_____(°C)	_____(N/A)

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LAB USE ONLY

Sales Order #: _____ PO #: _____ Access Quote #: _____

Project Work Order #: _____

Laboratory ID: _____

Company Name: TERRACON

Report To: William Walker

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803 744 9100 Fax: 803 744 9100

Email: WCWalker@Terracon.com

Project ID: EDDIES Pitt Stop

Sampled By: WALKER

Sample ID/Description	Date Collected:	Time Collected:	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	Preservative: (*see codes)	Container Type: (*see codes)	REQUESTED LAB ANALYSIS: BTEX MTBE	NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
						# of containers collected per analysis				
TW-14	4.4.12	1745	G	GW	CWA	2	1	P	2	29
TW-15	4.4.12	1740	G	GW	CWA	2			2	30
TW-16	4.4.12	1735	G	GW	CWA	2			2	31
TW-17	4.4.12	1730	G	GW	CWA	2			2	32
TW-18	4.4.12	1725	G	GW	CWA	2			2	33
TW-19	4.4.12	1720	G	GW	CWA	2			2	34
TW-20	4.4.12	1715	G	GW	CWA	2			2	35
TW-21	4.4.12	1710	G	GW	CWA	2			2	36
TW-22	4.4.12	1705	G	GW	CWA	2			2	37
TW-23	4.4.12	1700	G	GW	CWA	2			2	38

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:

- X Standard
- ___ RUSH*

*Date Required: _____

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

Project Location:

- X SC
- ___ NC
- ___ Other

(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Sample Temp. Upon Receipt (°C)	
[signature]		04/06/12	1330	____(°C)	____(N/A)
FedEx	[signature]	4/7/12	945	____(°C)	____(N/A)
				____(°C)	____(N/A)
				____(°C)	____(N/A)

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06 of 06

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

Workorder: 212040907

Client: 4565 - Access Analytical

Profile: 78454 - Terracon -

Line Item: 2 - Water BTEX//Naph/MTBE/1,2-DCA/PAH

Received by: McCune, Odie

Received Date/Time: 4/7/2012 9:45:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking number(s): 8153 8642 1080 / 8517 7002 5193

Cooler temperature(s): 1-9

Were all coolers received at a temperature of 0 - 6° C?	☑ Yes	☐ No	☐ N/A
Were all custody seals intact?	☑ Yes	☐ No	☐ N/A
Were all samples received in proper containers?	☑ Yes	☐ No	☐ N/A
Were all samples properly preserved?	☑ Yes	☐ No	☐ N/A
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ N/A
Were all containers received in good condition?	☑ Yes	☐ No	☐ N/A
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ N/A
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ N/A
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ N/A
Was the client notified about any discrepancies?	☐ Yes	☐ No	☑ N/A

Notes/Comments:

ACCESS ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Terracon
521 Clemson Rd
Columbia, SC 29201

ATTENTION
Regan Norris

PROJECT ID
Eddies Pittstop

LABORATORY REPORT NUMBER
212072310

DATE
07/30/2012

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Avenue, Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 07/30/2012

GCAL Report 212072310

Deliver To	Terracon 521 Clemson Rd Columbia, SC 29201
Attn	Regan Norris

Project Eddies Pittstop

CASE NARRATIVE

Client: Access Analytical **Report:** 212072310

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B - Gas Additives analysis, samples 21207231001 (MW-1), 21207231002 (MW-4), 21207231003 (MW-5), 21207231005 (MW-8), 21207231007 (MW-10), 21207231009 (MW-12), 21207231022 (MW-20), 21207231026 (MW-22) and 21207231025 (MW-21D) had to be diluted due to the presence of non-target background. This dilution is reflected in the elevated reporting limits.

In the SW-846 8260B analysis, samples 21207231001 (MW-1), 21207231002 (MW-4), 21207231003 (MW-5), 21207231005 (MW-8), 21207231007 (MW-10), 21207231009 (MW-12), 21207231022 (MW-20), 21207231024 (MW-21), 21207231026 (MW-22), 21207231027 (MW-22D) and 21207231025 (MW-21D) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated detection limits.

In the SW-846 8260B - Gas Additives analysis, samples 21207231024 (MW-21) and 21207231027 (MW-22D) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated detection limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8011 analysis, sample 21207231024 (MW-21) had to be diluted to bracket target compounds within the calibration range of the instrument. This is reflected in elevated detection limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

IntegriSign

Robyn Migues
Technical Director
GCAL REPORT 212072310

IntegriS

THIS REPORT CONTAINS 79 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231001	MW-1	Water	07/19/2012 08:15	07/21/2012 09:40
21207231002	MW-4	Water	07/18/2012 18:30	07/21/2012 09:40
21207231003	MW-5	Water	07/19/2012 07:30	07/21/2012 09:40
21207231004	MW-6	Water	07/18/2012 17:00	07/21/2012 09:40
21207231005	MW-8	Water	07/19/2012 09:00	07/21/2012 09:40
21207231006	MW-8D	Water	07/19/2012 10:00	07/21/2012 09:40
21207231007	MW-10	Water	07/18/2012 15:00	07/21/2012 09:40
21207231008	MW-11	Water	07/18/2012 17:30	07/21/2012 09:40
21207231009	MW-12	Water	07/20/2012 08:15	07/21/2012 09:40
21207231010	MW-13	Water	07/20/2012 08:45	07/21/2012 09:40
21207231011	MW-14	Water	07/19/2012 14:00	07/21/2012 09:40
21207231012	MW-15	Water	07/20/2012 09:45	07/21/2012 09:40
21207231013	MW-15D	Water	07/19/2012 13:15	07/21/2012 09:40
21207231014	MW-16	Water	07/19/2012 15:30	07/21/2012 09:40
21207231015	MW-16D	Water	07/19/2012 15:00	07/21/2012 09:40
21207231016	MW-17	Water	07/18/2012 15:30	07/21/2012 09:40
21207231017	MW-17D	Water	07/18/2012 16:30	07/21/2012 09:40
21207231018	MW-18	Water	07/20/2012 07:30	07/21/2012 09:40
21207231019	MW-18D	Water	07/19/2012 11:00	07/21/2012 09:40
21207231020	MW-19	Water	07/20/2012 09:15	07/21/2012 09:40
21207231021	MW-19D	Water	07/19/2012 12:00	07/21/2012 09:40
21207231022	MW-20	Water	07/18/2012 14:30	07/21/2012 09:40
21207231023	MW-20D	Water	07/18/2012 14:00	07/21/2012 09:40
21207231024	MW-21	Water	07/18/2012 13:00	07/21/2012 09:40
21207231025	MW-21D	Water	07/18/2012 12:40	07/21/2012 09:40
21207231026	MW-22	Water	07/18/2012 11:00	07/21/2012 09:40
21207231027	MW-22D	Water	07/18/2012 12:00	07/21/2012 09:40

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231001	**MW-1**	Water	07/19/2012 08:15	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2520	20.0	1.98	ug/L
108-88-3	Toluene	295	20.0	2.54	ug/L
100-41-4	Ethylbenzene	1280	20.0	2.38	ug/L
1330-20-7	Xylene (total)	5710	60.0	7.68	ug/L
91-20-3	Naphthalene	663	100	1.30	ug/L
107-06-2	1,2-Dichloroethane	60.9	20.0	2.38	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	32.8J	100	2.10	ug/L
75-85-4	tert-amyl alcohol (TAA)	3520	400	27.8	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.986	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231002	**MW-4**	Water	07/18/2012 18:30	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	263	2.00	0.198	ug/L
100-41-4	Ethylbenzene	83.7	2.00	0.238	ug/L
1330-20-7	Xylene (total)	361	6.00	0.768	ug/L
91-20-3	Naphthalene	146	10.0	0.130	ug/L
107-06-2	1,2-Dichloroethane	4.97	2.00	0.238	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.033	0.010	0.00290	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	2.88J	10.0	0.210	ug/L
75-85-4	tert-amyl alcohol (TAA)	463	40.0	2.78	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231003	MW-5	Water	07/19/2012 07:30	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	134	40.0	2.78	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	70.6	2.00	0.198	ug/L
108-88-3	Toluene	12.9	2.00	0.254	ug/L
100-41-4	Ethylbenzene	214	2.00	0.238	ug/L
1330-20-7	Xylene (total)	388	6.00	0.768	ug/L
91-20-3	Naphthalene	154	10.0	0.130	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231004	MW-6	Water	07/18/2012 17:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	7.11	5.00	0.065	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231005	MW-8	Water	07/19/2012 09:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	10.8J	50.0	1.05	ug/L
75-85-4	tert-amyl alcohol (TAA)	1530	200	13.9	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1040	10.0	0.990	ug/L
108-88-3	Toluene	117	10.0	1.27	ug/L
100-41-4	Ethylbenzene	962	10.0	1.19	ug/L
1330-20-7	Xylene (total)	3060	30.0	3.84	ug/L
91-20-3	Naphthalene	450	50.0	0.650	ug/L
107-06-2	1,2-Dichloroethane	7.11J	10.0	1.19	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231006	MW-8D	Water	07/19/2012 10:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	1.48	1.00	0.119	ug/L
1330-20-7	Xylene (total)	4.59	3.00	0.384	ug/L
91-20-3	Naphthalene	5.24	5.00	0.065	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231007	MW-10	Water	07/18/2012 15:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	2680	25.0	2.48	ug/L
100-41-4	Ethylbenzene	148	25.0	2.98	ug/L
1330-20-7	Xylene (total)	1150	75.0	9.60	ug/L
91-20-3	Naphthalene	200	125	1.63	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	276	25.0	1.51	ug/L
107-06-2	1,2-Dichloroethane	68.3	25.0	2.98	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	1270	250	7.25	ug/L
75-85-4	tert-amyl alcohol (TAA)	3680	500	34.8	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.100	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231008	MW-11	Water	07/18/2012 17:30	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
91-20-3	Naphthalene	2.15J	5.00	0.065	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231009	MW-12	Water	07/20/2012 08:15	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	5580	50.0	4.95	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231009	MW-12	Water	07/20/2012 08:15	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-88-3	Toluene	457	50.0	6.35	ug/L
100-41-4	Ethylbenzene	1150	50.0	5.95	ug/L
1330-20-7	Xylene (total)	4040	150	19.2	ug/L
91-20-3	Naphthalene	460	250	3.25	ug/L
107-06-2	1,2-Dichloroethane	39.4J	50.0	5.95	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	43.5J	250	5.25	ug/L
75-85-4	tert-amyl alcohol (TAA)	5210	1000	69.5	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231010	MW-13	Water	07/20/2012 08:45	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.584J	1.00	0.099	ug/L
100-41-4	Ethylbenzene	0.522J	1.00	0.119	ug/L
1330-20-7	Xylene (total)	10.2	3.00	0.384	ug/L
91-20-3	Naphthalene	4.14J	5.00	0.065	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231012	MW-15	Water	07/20/2012 09:45	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-85-4	tert-amyl alcohol (TAA)	8.41J	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231013	MW-15D	Water	07/19/2012 13:15	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	9.42	1.00	0.099	ug/L
100-41-4	Ethylbenzene	1.50	1.00	0.119	ug/L
91-20-3	Naphthalene	3.93J	5.00	0.065	ug/L
107-06-2	1,2-Dichloroethane	6.78	1.00	0.119	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231013	MW-15D	Water	07/19/2012 13:15	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	4.47J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	43.7	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231015	MW-16D	Water	07/19/2012 15:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	0.869J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	46.7	20.0	1.39	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	7.66	1.00	0.099	ug/L
1330-20-7	Xylene (total)	2.54J	3.00	0.384	ug/L
91-20-3	Naphthalene	2.46J	5.00	0.065	ug/L
107-06-2	1,2-Dichloroethane	0.942J	1.00	0.119	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231017	MW-17D	Water	07/18/2012 16:30	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	0.875J	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	6.61J	20.0	1.39	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.618J	1.00	0.099	ug/L
107-06-2	1,2-Dichloroethane	1.17	1.00	0.119	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231018	MW-18	Water	07/20/2012 07:30	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
100-41-4	Ethylbenzene	4.84	1.00	0.119	ug/L
1330-20-7	Xylene (total)	5.51	3.00	0.384	ug/L
91-20-3	Naphthalene	4.27J	5.00	0.065	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231019	MW-18D	Water	07/19/2012 11:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	19.4	1.00	0.119	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	29.4	5.00	0.105	ug/L
75-85-4	tert-amyl alcohol (TAA)	53.8	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231020	MW-19	Water	07/20/2012 09:15	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	59.0	5.00	0.105	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	63.7	1.00	0.119	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231021	MW-19D	Water	07/19/2012 12:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
108-20-3	diisopropyl Ether (DIPE)	5.22	5.00	0.105	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
107-06-2	1,2-Dichloroethane	1.46	1.00	0.119	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231022	MW-20	Water	07/18/2012 14:30	07/21/2012 09:40

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.112	0.010	0.00290	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231022	MW-20	Water	07/18/2012 14:30	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	51.2	20.0	0.580	ug/L
75-85-4	tert-amyl alcohol (TAA)	420	40.0	2.78	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	325	2.00	0.198	ug/L
108-88-3	Toluene	1.77J	2.00	0.254	ug/L
100-41-4	Ethylbenzene	53.0	2.00	0.238	ug/L
1330-20-7	Xylene (total)	105	6.00	0.768	ug/L
91-20-3	Naphthalene	2.56J	10.0	0.130	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	35.0	2.00	0.121	ug/L
107-06-2	1,2-Dichloroethane	7.21	2.00	0.238	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231023	MW-20D	Water	07/18/2012 14:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	22.6	1.00	0.099	ug/L
100-41-4	Ethylbenzene	1.67	1.00	0.119	ug/L
1330-20-7	Xylene (total)	8.14	3.00	0.384	ug/L
91-20-3	Naphthalene	1.26J	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	25.1	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	3.43	1.00	0.119	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.09J	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	46.2	10.0	0.290	ug/L
75-85-4	tert-amyl alcohol (TAA)	66.0	20.0	1.39	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231024	MW-21	Water	07/18/2012 13:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	11400	100	9.90	ug/L
108-88-3	Toluene	12100	100	12.7	ug/L
100-41-4	Ethylbenzene	1170	100	11.9	ug/L
1330-20-7	Xylene (total)	5840	300	38.4	ug/L
91-20-3	Naphthalene	294J	500	6.50	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231024	**MW-21**	Water	07/18/2012 13:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
1634-04-4	tert-Butyl methyl ether (MTBE)	2870	100	6.04	ug/L
107-06-2	1,2-Dichloroethane	436	100	11.9	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	16300	1000	29.0	ug/L
75-85-4	tert-amyl alcohol (TAA)	32100	2000	139	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	3.75	0.050	0.015	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231025	**MW-21D**	Water	07/18/2012 12:40	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	179	50.0	1.45	ug/L
75-85-4	tert-amyl alcohol (TAA)	670	100	6.95	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	220	5.00	0.495	ug/L
108-88-3	Toluene	473	5.00	0.635	ug/L
100-41-4	Ethylbenzene	151	5.00	0.595	ug/L
1330-20-7	Xylene (total)	785	15.0	1.92	ug/L
91-20-3	Naphthalene	51.2	25.0	0.325	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	64.7	5.00	0.302	ug/L
107-06-2	1,2-Dichloroethane	8.19	5.00	0.595	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.017	0.010	0.00290	ug/L

Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231026	MW-22	Water	07/18/2012 11:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	262	2.00	0.198	ug/L
108-88-3	Toluene	37.7	2.00	0.254	ug/L
100-41-4	Ethylbenzene	73.9	2.00	0.238	ug/L
1330-20-7	Xylene (total)	286	6.00	0.768	ug/L
91-20-3	Naphthalene	3.84J	10.0	0.130	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	5.85	2.00	0.121	ug/L
107-06-2	1,2-Dichloroethane	1.65J	2.00	0.238	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.013	0.010	0.00290	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	27.2	20.0	0.580	ug/L
75-85-4	tert-amyl alcohol (TAA)	163	40.0	2.78	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231027	MW-22D	Water	07/18/2012 12:00	07/21/2012 09:40

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	1300	10.0	0.990	ug/L
108-88-3	Toluene	80.2	10.0	1.27	ug/L
100-41-4	Ethylbenzene	241	10.0	1.19	ug/L
1330-20-7	Xylene (total)	639	30.0	3.84	ug/L
91-20-3	Naphthalene	157	50.0	0.650	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	61.0	10.0	0.604	ug/L
107-06-2	1,2-Dichloroethane	19.6	10.0	1.19	ug/L

SW-846 8011

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.011	0.010	0.00290	ug/L

SW-846 8260B

CAS#	Parameter	Result	RDL	MDL	Units
75-65-0	t-Butanol (TBA)	566	100	2.90	ug/L
75-85-4	tert-amyl alcohol (TAA)	2780	200	13.9	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231001	**MW-1**	Water	07/19/2012 08:15	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/25/2012 18:34	CLH	486272

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2520**	**20.0**	**1.98**	**ug/L**
108-88-3	**Toluene**	**295**	**20.0**	**2.54**	**ug/L**
100-41-4	**Ethylbenzene**	**1280**	**20.0**	**2.38**	**ug/L**
1330-20-7	**Xylene (total)**	**5710**	**60.0**	**7.68**	**ug/L**
91-20-3	**Naphthalene**	**663**	**100**	**1.30**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	1.21U	20.0	1.21	ug/L
107-06-2	**1,2-Dichloroethane**	**60.9**	**20.0**	**2.38**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1020	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1000	1020	ug/L	102	77 - 127
2037-26-5	Toluene d8	1000	1000	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	1010	ug/L	101	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	07/25/2012 18:34	CLH	486271

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	21.0U	100	21.0	ug/L
75-65-0	t-Butanol (TBA)	5.80U	200	5.80	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**32.8J**	**100**	**2.10**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	22.2U	100	22.2	ug/L
624-95-3	ethyl tert-butanol (ETBA)	752U	2000	752	ug/L
64-17-5	Ethanol	1640U	2000	1640	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**3520**	**400**	**27.8**	**ug/L**
762-75-4	tert-butyl formate (TBF)	43.2U	1000	43.2	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	1020	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1000	1020	ug/L	102	77 - 127
2037-26-5	Toluene d8	1000	1000	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	1010	ug/L	101	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 11:38	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.986**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231001	**MW-1**	Water	07/19/2012 08:15	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:02	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231002	**MW-4**	Water	07/18/2012 18:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 00:24	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**263**	**2.00**	**0.198**	**ug/L**
108-88-3	Toluene	0.254U	2.00	0.254	ug/L
100-41-4	**Ethylbenzene**	**83.7**	**2.00**	**0.238**	**ug/L**
1330-20-7	**Xylene (total)**	**361**	**6.00**	**0.768**	**ug/L**
91-20-3	**Naphthalene**	**146**	**10.0**	**0.130**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.121U	2.00	0.121	ug/L
107-06-2	**1,2-Dichloroethane**	**4.97**	**2.00**	**0.238**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	101	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	102	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	98	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 00:24	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.10U	10.0	2.10	ug/L
75-65-0	t-Butanol (TBA)	0.580U	20.0	0.580	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**2.88J**	**10.0**	**0.210**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	2.22U	10.0	2.22	ug/L
624-95-3	ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	164U	200	164	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**463**	**40.0**	**2.78**	**ug/L**
762-75-4	tert-butyl formate (TBF)	4.32U	100	4.32	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	101	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	102	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	98	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 12:00	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.033**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231002	**MW-4**	Water	07/18/2012 18:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:09	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231003	**MW-5**	Water	07/19/2012 07:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 00:48	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**70.6**	**2.00**	**0.198**	**ug/L**
108-88-3	**Toluene**	**12.9**	**2.00**	**0.254**	**ug/L**
100-41-4	**Ethylbenzene**	**214**	**2.00**	**0.238**	**ug/L**
1330-20-7	**Xylene (total)**	**388**	**6.00**	**0.768**	**ug/L**
91-20-3	**Naphthalene**	**154**	**10.0**	**0.130**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.121U	2.00	0.121	ug/L
107-06-2	1,2-Dichloroethane	0.238U	2.00	0.238	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	100	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	102	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	102	ug/L	102	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 00:48	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.10U	10.0	2.10	ug/L
75-65-0	t-Butanol (TBA)	0.580U	20.0	0.580	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.210U	10.0	0.210	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	2.22U	10.0	2.22	ug/L
624-95-3	ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	164U	200	164	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**134**	**40.0**	**2.78**	**ug/L**
762-75-4	tert-butyl formate (TBF)	4.32U	100	4.32	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	100	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	102	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	102	ug/L	102	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 12:22	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231003	**MW-5**	Water	07/19/2012 07:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:16	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231004	**MW-6**	Water	07/18/2012 17:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 01:10	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	**Naphthalene**	**7.11**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.4	ug/L	105	78 - 130
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 01:10	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	52.4	ug/L	105	78 - 130
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50.1	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 12:45	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231004	**MW-6**	Water	07/18/2012 17:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 20:15	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231005	**MW-8**	Water	07/19/2012 09:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/26/2012 01:34	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**1040**	**10.0**	**0.990**	**ug/L**
108-88-3	**Toluene**	**117**	**10.0**	**1.27**	**ug/L**
100-41-4	**Ethylbenzene**	**962**	**10.0**	**1.19**	**ug/L**
1330-20-7	**Xylene (total)**	**3060**	**30.0**	**3.84**	**ug/L**
91-20-3	**Naphthalene**	**450**	**50.0**	**0.650**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.604U	10.0	0.604	ug/L
107-06-2	**1,2-Dichloroethane**	**7.11J**	**10.0**	**1.19**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	495	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	500	509	ug/L	102	77 - 127
2037-26-5	Toluene d8	500	507	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	515	ug/L	103	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/26/2012 01:34	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	10.5U	50.0	10.5	ug/L
75-65-0	t-Butanol (TBA)	2.90U	100	2.90	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**10.8J**	**50.0**	**1.05**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	11.1U	50.0	11.1	ug/L
624-95-3	ethyl tert-butanol (ETBA)	376U	1000	376	ug/L
64-17-5	Ethanol	818U	1000	818	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**1530**	**200**	**13.9**	**ug/L**
762-75-4	tert-butyl formate (TBF)	21.6U	500	21.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	495	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	500	509	ug/L	102	77 - 127
2037-26-5	Toluene d8	500	507	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	515	ug/L	103	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 13:08	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231005	**MW-8**	Water	07/19/2012 09:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:23	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231006	**MW-8D**	Water	07/19/2012 10:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 01:56	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	**Ethylbenzene**	**1.48**	**1.00**	**0.119**	**ug/L**
1330-20-7	**Xylene (total)**	**4.59**	**3.00**	**0.384**	**ug/L**
91-20-3	**Naphthalene**	**5.24**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 01:56	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.2	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.7	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 13:30	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231006	**MW-8D**	Water	07/19/2012 10:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:30	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231007	**MW-10**	Water	07/18/2012 15:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	07/26/2012 02:17	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**2680**	**25.0**	**2.48**	**ug/L**
108-88-3	Toluene	3.18U	25.0	3.18	ug/L
100-41-4	**Ethylbenzene**	**148**	**25.0**	**2.98**	**ug/L**
1330-20-7	**Xylene (total)**	**1150**	**75.0**	**9.60**	**ug/L**
91-20-3	**Naphthalene**	**200**	**125**	**1.63**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**276**	**25.0**	**1.51**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**68.3**	**25.0**	**2.98**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1270	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1250	1250	ug/L	100	77 - 127
2037-26-5	Toluene d8	1250	1250	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1210	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			25	07/26/2012 02:17	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	26.3U	125	26.3	ug/L
75-65-0	**t-Butanol (TBA)**	**1270**	**250**	**7.25**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	2.63U	125	2.63	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	27.8U	125	27.8	ug/L
624-95-3	ethyl tert-butanol (ETBA)	940U	2500	940	ug/L
64-17-5	Ethanol	2050U	2500	2050	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**3680**	**500**	**34.8**	**ug/L**
762-75-4	tert-butyl formate (TBF)	54.0U	1250	54.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1250	1270	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	1250	1250	ug/L	100	77 - 127
2037-26-5	Toluene d8	1250	1250	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1250	1210	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 13:53	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.100**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231007	**MW-10**	Water	07/18/2012 15:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:36	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231008	**MW-11**	Water	07/18/2012 17:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 02:39	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	**Naphthalene**	**2.15J**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 02:39	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 14:38	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231008	**MW-11**	Water	07/18/2012 17:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:43	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231009	**MW-12**	Water	07/20/2012 08:15	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/26/2012 03:00	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**5580**	**50.0**	**4.95**	**ug/L**
108-88-3	**Toluene**	**457**	**50.0**	**6.35**	**ug/L**
100-41-4	**Ethylbenzene**	**1150**	**50.0**	**5.95**	**ug/L**
1330-20-7	**Xylene (total)**	**4040**	**150**	**19.2**	**ug/L**
91-20-3	**Naphthalene**	**460**	**250**	**3.25**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	3.02U	50.0	3.02	ug/L
107-06-2	**1,2-Dichloroethane**	**39.4J**	**50.0**	**5.95**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2540	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	2500	2520	ug/L	101	77 - 127
2037-26-5	Toluene d8	2500	2460	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2470	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			50	07/26/2012 03:00	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	52.5U	250	52.5	ug/L
75-65-0	t-Butanol (TBA)	14.5U	500	14.5	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**43.5J**	**250**	**5.25**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	55.5U	250	55.5	ug/L
624-95-3	ethyl tert-butanol (ETBA)	1880U	5000	1880	ug/L
64-17-5	Ethanol	4090U	5000	4090	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**5210**	**1000**	**69.5**	**ug/L**
762-75-4	tert-butyl formate (TBF)	108U	2500	108	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2540	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	2500	2520	ug/L	101	77 - 127
2037-26-5	Toluene d8	2500	2460	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2470	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 15:01	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231009	**MW-12**	Water	07/20/2012 08:15	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:50	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231010	**MW-13**	Water	07/20/2012 08:45	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 03:22	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**0.584J**	**1.00**	**0.099**	**ug/L**
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	**Ethylbenzene**	**0.522J**	**1.00**	**0.119**	**ug/L**
1330-20-7	**Xylene (total)**	**10.2**	**3.00**	**0.384**	**ug/L**
91-20-3	**Naphthalene**	**4.14J**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 03:22	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.6	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 15:24	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231010	**MW-13**	Water	07/20/2012 08:45	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 21:57	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231011	**MW-14**	Water	07/19/2012 14:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 03:43	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.8	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 03:43	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.9	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.8	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 15:46	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231011	**MW-14**	Water	07/19/2012 14:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:18	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231012	**MW-15**	Water	07/20/2012 09:45	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 04:05	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 04:05	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**8.41J**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 16:09	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231012	**MW-15**	Water	07/20/2012 09:45	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:25	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231013	**MW-15D**	Water	07/19/2012 13:15	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 04:26	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**9.42**	**1.00**	**0.099**	**ug/L**
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	**Ethylbenzene**	**1.50**	**1.00**	**0.119**	**ug/L**
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	**Naphthalene**	**3.93J**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**6.78**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.4	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 04:26	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**4.47J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**43.7**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.4	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 16:31	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231013	**MW-15D**	Water	07/19/2012 13:15	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:31	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231014	**MW-16**	Water	07/19/2012 15:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 04:48	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 04:48	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.5	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 16:53	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231014	**MW-16**	Water	07/19/2012 15:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:38	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231015	**MW-16D**	Water	07/19/2012 15:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 05:09	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**7.66**	**1.00**	**0.099**	**ug/L**
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	**Xylene (total)**	**2.54J**	**3.00**	**0.384**	**ug/L**
91-20-3	**Naphthalene**	**2.46J**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**0.942J**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 05:09	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**0.869J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**46.7**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.2	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.7	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 17:15	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231015	**MW-16D**	Water	07/19/2012 15:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:45	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231016	**MW-17**	Water	07/18/2012 15:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 05:31	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	48.6	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.9	ug/L	96	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 05:31	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.4	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	48.6	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.9	ug/L	96	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 17:37	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231016	**MW-17**	Water	07/18/2012 15:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:52	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231017	**MW-17D**	Water	07/18/2012 16:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 05:52	JCK	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**0.618J**	**1.00**	**0.099**	**ug/L**
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**1.17**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 05:52	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**0.875J**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**6.61J**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 17:59	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231017	**MW-17D**	Water	07/18/2012 16:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 22:59	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231018	**MW-18**	Water	07/20/2012 07:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 06:14	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	**Ethylbenzene**	**4.84**	**1.00**	**0.119**	**ug/L**
1330-20-7	**Xylene (total)**	**5.51**	**3.00**	**0.384**	**ug/L**
91-20-3	**Naphthalene**	**4.27J**	**5.00**	**0.065**	**ug/L**
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	1,2-Dichloroethane	0.119U	1.00	0.119	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.5	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 06:14	JCK	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.5	ug/L	103	78 - 130
1868-53-7	Dibromofluoromethane	50	50.3	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.4	ug/L	103	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 18:42	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231018	**MW-18**	Water	07/20/2012 07:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 23:06	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231019	**MW-18D**	Water	07/19/2012 11:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 06:35	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**19.4**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 06:35	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**29.4**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**53.8**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.9	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.1	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.4	ug/L	97	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 19:04	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231019	**MW-18D**	Water	07/19/2012 11:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 23:13	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231020	**MW-19**	Water	07/20/2012 09:15	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 06:57	LBH	486342

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**63.7**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.5	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 06:57	LBH	486341

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**59.0**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	51.1	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	50	50.4	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	49.5	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.8	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 16:20	486129	SW-846 8011	1	07/25/2012 19:25	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231020	**MW-19**	Water	07/20/2012 09:15	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486100	SW-846 3010A	1	07/24/2012 23:20	CLB	486227

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231021	**MW-19D**	Water	07/19/2012 12:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 12:56	CLH	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	Benzene	0.099U	1.00	0.099	ug/L
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	Ethylbenzene	0.119U	1.00	0.119	ug/L
1330-20-7	Xylene (total)	0.384U	3.00	0.384	ug/L
91-20-3	Naphthalene	0.065U	5.00	0.065	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	1.00	0.060	ug/L
107-06-2	**1,2-Dichloroethane**	**1.46**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	50.5	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 12:56	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	1.05U	5.00	1.05	ug/L
75-65-0	t-Butanol (TBA)	0.290U	10.0	0.290	ug/L
108-20-3	**diisopropyl Ether (DIPE)**	**5.22**	**5.00**	**0.105**	**ug/L**
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	tert-amyl alcohol (TAA)	1.39U	20.0	1.39	ug/L
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	50.5	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.8	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	1	07/25/2012 20:51	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231021	**MW-19D**	Water	07/19/2012 12:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 00:51	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231022	**MW-20**	Water	07/18/2012 14:30	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 13:21	CLH	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**325**	**2.00**	**0.198**	**ug/L**
108-88-3	**Toluene**	**1.77J**	**2.00**	**0.254**	**ug/L**
100-41-4	**Ethylbenzene**	**53.0**	**2.00**	**0.238**	**ug/L**
1330-20-7	**Xylene (total)**	**105**	**6.00**	**0.768**	**ug/L**
91-20-3	**Naphthalene**	**2.56J**	**10.0**	**0.130**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**35.0**	**2.00**	**0.121**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**7.21**	**2.00**	**0.238**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	98.8	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	101	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	98	ug/L	98	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 13:21	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.10U	10.0	2.10	ug/L
75-65-0	**t-Butanol (TBA)**	**51.2**	**20.0**	**0.580**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	0.210U	10.0	0.210	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	2.22U	10.0	2.22	ug/L
624-95-3	ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	164U	200	164	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**420**	**40.0**	**2.78**	**ug/L**
762-75-4	tert-butyl formate (TBF)	4.32U	100	4.32	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	98.8	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	100	101	ug/L	101	77 - 127
2037-26-5	Toluene d8	100	101	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	98	ug/L	98	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	1	07/25/2012 21:13	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.112**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231022	**MW-20**	Water	07/18/2012 14:30	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 00:58	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231023	**MW-20D**	Water	07/18/2012 14:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 13:42	CLH	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**22.6**	**1.00**	**0.099**	**ug/L**
108-88-3	Toluene	0.127U	1.00	0.127	ug/L
100-41-4	**Ethylbenzene**	**1.67**	**1.00**	**0.119**	**ug/L**
1330-20-7	**Xylene (total)**	**8.14**	**3.00**	**0.384**	**ug/L**
91-20-3	**Naphthalene**	**1.26J**	**5.00**	**0.065**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**25.1**	**1.00**	**0.060**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**3.43**	**1.00**	**0.119**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.3	ug/L	107	78 - 130
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.5	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	07/26/2012 13:42	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	**t-amyl methyl ether (TAME)**	**2.09J**	**5.00**	**1.05**	**ug/L**
75-65-0	**t-Butanol (TBA)**	**46.2**	**10.0**	**0.290**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	0.105U	5.00	0.105	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	5.00	1.11	ug/L
624-95-3	ethyl tert-butanol (ETBA)	37.6U	100	37.6	ug/L
64-17-5	Ethanol	81.8U	100	81.8	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**66.0**	**20.0**	**1.39**	**ug/L**
762-75-4	tert-butyl formate (TBF)	2.16U	50.0	2.16	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.3	ug/L	107	78 - 130
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.5	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50	ug/L	100	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	1	07/25/2012 21:35	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	1,2-Dibromoethane	0.00290U	0.010	0.00290	ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231023	**MW-20D**	Water	07/18/2012 14:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 01:05	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231024	**MW-21**	Water	07/18/2012 13:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	07/26/2012 14:04	CLH	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**11400**	**100**	**9.90**	**ug/L**
108-88-3	**Toluene**	**12100**	**100**	**12.7**	**ug/L**
100-41-4	**Ethylbenzene**	**1170**	**100**	**11.9**	**ug/L**
1330-20-7	**Xylene (total)**	**5840**	**300**	**38.4**	**ug/L**
91-20-3	**Naphthalene**	**294J**	**500**	**6.50**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**2870**	**100**	**6.04**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**436**	**100**	**11.9**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5100	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	5000	5040	ug/L	101	77 - 127
2037-26-5	Toluene d8	5000	4890	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	4930	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			100	07/26/2012 14:04	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	105U	500	105	ug/L
75-65-0	**t-Butanol (TBA)**	**16300**	**1000**	**29.0**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	10.5U	500	10.5	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	111U	500	111	ug/L
624-95-3	ethyl tert-butanol (ETBA)	3760U	10000	3760	ug/L
64-17-5	Ethanol	8180U	10000	8180	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**32100**	**2000**	**139**	**ug/L**
762-75-4	tert-butyl formate (TBF)	216U	5000	216	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	5100	ug/L	102	78 - 130
1868-53-7	Dibromofluoromethane	5000	5040	ug/L	101	77 - 127
2037-26-5	Toluene d8	5000	4890	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	4930	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	5	07/26/2012 15:41	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**3.75**	**0.050**	**0.015**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231024	**MW-21**	Water	07/18/2012 13:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 00:05	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231025	**MW-21D**	Water	07/18/2012 12:40	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/26/2012 15:42	CLH	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**220**	**5.00**	**0.495**	**ug/L**
108-88-3	**Toluene**	**473**	**5.00**	**0.635**	**ug/L**
100-41-4	**Ethylbenzene**	**151**	**5.00**	**0.595**	**ug/L**
1330-20-7	**Xylene (total)**	**785**	**15.0**	**1.92**	**ug/L**
91-20-3	**Naphthalene**	**51.2**	**25.0**	**0.325**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**64.7**	**5.00**	**0.302**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**8.19**	**5.00**	**0.595**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	249	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	250	192	ug/L	77	77 - 127
2037-26-5	Toluene d8	250	255	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	255	ug/L	102	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	07/26/2012 15:42	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	5.25U	25.0	5.25	ug/L
75-65-0	**t-Butanol (TBA)**	**179**	**50.0**	**1.45**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	0.525U	25.0	0.525	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	5.55U	25.0	5.55	ug/L
624-95-3	ethyl tert-butanol (ETBA)	188U	500	188	ug/L
64-17-5	Ethanol	409U	500	409	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**670**	**100**	**6.95**	**ug/L**
762-75-4	tert-butyl formate (TBF)	10.8U	250	10.8	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	249	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	250	192	ug/L	77	77 - 127
2037-26-5	Toluene d8	250	255	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	255	ug/L	102	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	1	07/25/2012 22:39	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.017**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231025	**MW-21D**	Water	07/18/2012 12:40	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 01:12	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231026	**MW-22**	Water	07/18/2012 11:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 14:53	JCK	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**262**	**2.00**	**0.198**	**ug/L**
108-88-3	**Toluene**	**37.7**	**2.00**	**0.254**	**ug/L**
100-41-4	**Ethylbenzene**	**73.9**	**2.00**	**0.238**	**ug/L**
1330-20-7	**Xylene (total)**	**286**	**6.00**	**0.768**	**ug/L**
91-20-3	**Naphthalene**	**3.84J**	**10.0**	**0.130**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**5.85**	**2.00**	**0.121**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**1.65J**	**2.00**	**0.238**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	93.1	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	100	99.3	ug/L	99	77 - 127
2037-26-5	Toluene d8	100	94	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	99	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			2	07/26/2012 14:53	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	2.10U	10.0	2.10	ug/L
75-65-0	**t-Butanol (TBA)**	**27.2**	**20.0**	**0.580**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	0.210U	10.0	0.210	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	2.22U	10.0	2.22	ug/L
624-95-3	ethyl tert-butanol (ETBA)	75.2U	200	75.2	ug/L
64-17-5	Ethanol	164U	200	164	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**163**	**40.0**	**2.78**	**ug/L**
762-75-4	tert-butyl formate (TBF)	4.32U	100	4.32	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100	93.1	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	100	99.3	ug/L	99	77 - 127
2037-26-5	Toluene d8	100	94	ug/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100	99	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	1	07/25/2012 23:00	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.013**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231026	**MW-22**	Water	07/18/2012 11:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 01:19	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231027	**MW-22D**	Water	07/18/2012 12:00	07/21/2012 09:40

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/26/2012 15:18	CLH	486372

CAS#	Parameter	Result	RDL	MDL	Units
71-43-2	**Benzene**	**1300**	**10.0**	**0.990**	**ug/L**
108-88-3	**Toluene**	**80.2**	**10.0**	**1.27**	**ug/L**
100-41-4	**Ethylbenzene**	**241**	**10.0**	**1.19**	**ug/L**
1330-20-7	**Xylene (total)**	**639**	**30.0**	**3.84**	**ug/L**
91-20-3	**Naphthalene**	**157**	**50.0**	**0.650**	**ug/L**
1634-04-4	**tert-Butyl methyl ether (MTBE)**	**61.0**	**10.0**	**0.604**	**ug/L**
107-06-2	**1,2-Dichloroethane**	**19.6**	**10.0**	**1.19**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	431	ug/L	86	78 - 130
1868-53-7	Dibromofluoromethane	500	503	ug/L	101	77 - 127
2037-26-5	Toluene d8	500	453	ug/L	91	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	495	ug/L	99	71 - 127

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	07/26/2012 15:18	CLH	486371

CAS#	Parameter	Result	RDL	MDL	Units
994-05-8	t-amyl methyl ether (TAME)	10.5U	50.0	10.5	ug/L
75-65-0	**t-Butanol (TBA)**	**566**	**100**	**2.90**	**ug/L**
108-20-3	diisopropyl Ether (DIPE)	1.05U	50.0	1.05	ug/L
637-92-3	Ethyl tert-butyl ether (ETBE)	11.1U	50.0	11.1	ug/L
624-95-3	ethyl tert-butanol (ETBA)	376U	1000	376	ug/L
64-17-5	Ethanol	818U	1000	818	ug/L
75-85-4	**tert-amyl alcohol (TAA)**	**2780**	**200**	**13.9**	**ug/L**
762-75-4	tert-butyl formate (TBF)	21.6U	500	21.6	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	431	ug/L	86	78 - 130
1868-53-7	Dibromofluoromethane	500	503	ug/L	101	77 - 127
2037-26-5	Toluene d8	500	453	ug/L	91	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	495	ug/L	99	71 - 127

SW-846 8011

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/24/2012 13:48	486130	SW-846 8011	1	07/25/2012 23:22	TLS	486437

CAS#	Parameter	Result	RDL	MDL	Units
106-93-4	**1,2-Dibromoethane**	**0.011**	**0.010**	**0.00290**	**ug/L**

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21207231027	**MW-22D**	Water	07/18/2012 12:00	07/21/2012 09:40

SW-846 6010C

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
07/23/2012 11:30	486101	SW-846 3010A	1	07/26/2012 01:26	CLB	486275

CAS#	Parameter	Result	RDL	MDL	Units
7439-92-1	Lead	0.0028U	0.015	0.0028	mg/L

GC/MS Volatiles Quality Control Summary

Analytical Batch	486272	**Client ID**	MB486272			LCS486272			LCSD486272			
Prep Batch	N/A	**GCAL ID**	1089865			1089866			1089867			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/25/2012 12:59			07/25/2012 10:45			07/25/2012 11:06			
		Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
107-06-2	1,2-Dichloroethane	0.119U	0.119	50.0	54.1	108	71 - 129	54.6	109	0.9	30	
100-41-4	Ethylbenzene	0.119U	0.119	50.0	57.2	114	74 - 126	54.4	109	5	30	
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	53.2	106	71 - 125	53.8	108	1	30	
1330-20-7	Xylene (total)	0.384U	0.384	150	171	114	74 - 127	165	110	4	30	
91-20-3	Naphthalene	0.065U	0.065	50.0	47.4	95	57 - 138	53.3	107	12	35	
71-43-2	Benzene	0.099U	0.099	50.0	54.7	109	70 - 129	53.9	108	1	20	
108-88-3	Toluene	0.127U	0.127	50.0	56.0	112	72 - 120	53.3	107	5	20	
Surrogate												
460-00-4	4-Bromofluorobenzene	52.1	104	50	51.3	103	78 - 130	51.6	103			
1868-53-7	Dibromofluoromethane	50.9	102	50	50.9	102	77 - 127	50.7	101			
2037-26-5	Toluene d8	49.1	98	50	49.5	99	76 - 134	49.7	99			
17060-07-0	1,2-Dichloroethane-d4	50	100	50	48.1	96	71 - 127	50.7	101			

Analytical Batch	486342	**Client ID**	MB486342			LCS486342			LCSD486342			
Prep Batch	N/A	**GCAL ID**	1090247			1090248			1090249			
		Sample Type	Method Blank			LCS			LCSD			
		Analytical Date	07/25/2012 23:16			07/25/2012 21:34			07/25/2012 21:56			
		Matrix	Water			Water			Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**	**Result**			**RPD**	
		Result	**RDL**	**Added**		**% R**	**Limits % R**		**% R**	**RPD**	**Limit**	
107-06-2	1,2-Dichloroethane	0.119U	0.119	50.0	53.5	107	71 - 129	52.3	105	2	30	
100-41-4	Ethylbenzene	0.119U	0.119	50.0	55.7	111	74 - 126	52.8	106	5	30	
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	53.3	107	71 - 125	52.2	104	2	30	
1330-20-7	Xylene (total)	0.384U	0.384	150	165	110	74 - 127	158	105	4	30	
91-20-3	Naphthalene	0.065U	0.065	50.0	54.8	110	57 - 138	52.6	105	4	35	
71-43-2	Benzene	0.099U	0.099	50.0	53.2	106	70 - 129	52.0	104	2	20	
108-88-3	Toluene	0.127U	0.127	50.0	54.2	108	72 - 120	51.8	104	5	20	
Surrogate												
460-00-4	4-Bromofluorobenzene	50.4	101	50	50.8	102	78 - 130	49.8	100			
1868-53-7	Dibromofluoromethane	50.4	101	50	50.6	101	77 - 127	49.7	99			
2037-26-5	Toluene d8	49.3	99	50	50.3	101	76 - 134	49.6	99			
17060-07-0	1,2-Dichloroethane-d4	49	98	50	50.2	100	71 - 127	49.5	99			

GC/MS Volatiles Quality Control Summary

Analytical Batch	486372	**Client ID**	MB486372			LCS486372				LCSD486372		
Prep Batch	N/A	**GCAL ID**	1090393			1090394				1090395		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	07/26/2012 12:34			07/26/2012 11:06				07/26/2012 11:27		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits**	**% R**		**% R**		**Limit**
107-06-2	1,2-Dichloroethane	0.119U	0.119	50.0	51.8	104	71 -	129	53.8	108	4	30
100-41-4	Ethylbenzene	0.119U	0.119	50.0	54.2	108	74 -	126	55.9	112	3	30
1634-04-4	tert-Butyl methyl ether (MTBE)	0.060U	0.060	50.0	50.2	100	71 -	125	53.7	107	7	30
1330-20-7	Xylene (total)	0.384U	0.384	150	161	107	74 -	127	166	111	3	30
91-20-3	Naphthalene	0.065U	0.065	50.0	44.5	89	57 -	138	52.7	105	17	35
71-43-2	Benzene	0.099U	0.099	50.0	52.6	105	70 -	129	53.9	108	2	20
108-88-3	Toluene	0.127U	0.127	50.0	52.4	105	72 -	120	54.8	110	4	20
Surrogate												
460-00-4	4-Bromofluorobenzene	49.7	99	50	50.9	102	78 -	130	51.2	102		
1868-53-7	Dibromofluoromethane	51.3	103	50	49.9	100	77 -	127	50	100		
2037-26-5	Toluene d8	49.9	100	50	48.6	97	76 -	134	49.6	99		
17060-07-0	1,2-Dichloroethane-d4	50	100	50	49.9	100	71 -	127	50.1	100		

GC/MS Volatiles Quality Control Summary

Analytical Batch	486271	**Client ID**	MB486271			LCS486271				LCSD486271			
Prep Batch	N/A	**GCAL ID**	1089861			1089862				1089863			
		Sample Type	Method Blank			LCS				LCSD			
		Analytical Date	07/25/2012 12:59			07/25/2012 10:45				07/25/2012 11:06			
		Matrix	Water			Water				Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**	**%R**	**Control**		**Result**	**%R**	**RPD**	**RPD**
		Result	**RDL**	**Added**			**Limits %R**					**Limit**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	52.3	105	50 - 150		53.3	107	2	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	46.4	93	50 - 150		49.4	99	6	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	52.8	106	50 - 150		51.9	104	2	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	53.1	106	50 - 150		53.4	107	0.6	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2370	93	50 - 150		2600	102	9	50
64-17-5	Ethanol	81.8U	81.8	25200	24000	95	50 - 150		25300	100	5	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	194	97	50 - 150		211	106	8	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	59.6	119	50 - 150		58.5	117	2	50
Surrogate												
460-00-4	4-Bromofluorobenzene	52.1	104	50	51.3	103	78 - 130		51.6	103		
1868-53-7	Dibromofluoromethane	50.9	102	50	50.9	102	77 - 127		50.7	101		
2037-26-5	Toluene d8	49.1	98	50	49.5	99	76 - 134		49.7	99		
17060-07-0	1,2-Dichloroethane-d4	50	100	50	48.1	96	71 - 127		50.7	101		

Analytical Batch	486341	**Client ID**	MB486341			LCS486341				LCSD486341			
Prep Batch	N/A	**GCAL ID**	1090244			1090245				1090246			
		Sample Type	Method Blank			LCS				LCSD			
		Analytical Date	07/25/2012 23:16			07/25/2012 21:34				07/25/2012 21:56			
		Matrix	Water			Water				Water			
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**	**%R**	**Control**		**Result**	**%R**	**RPD**	**RPD**
		Result	**RDL**	**Added**			**Limits %R**					**Limit**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	52.7	105	50 - 150		52.5	105	0.4	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	48.7	97	50 - 150		47.7	95	2	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	51.3	103	50 - 150		50.6	101	1	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	52.7	105	50 - 150		51.9	104	2	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2580	101	50 - 150		2490	98	4	50
64-17-5	Ethanol	81.8U	81.8	25200	24600	98	50 - 150		24200	96	2	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	208	104	50 - 150		203	102	2	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	58.3	117	50 - 150		55.6	111	5	50
Surrogate												
460-00-4	4-Bromofluorobenzene	50.4	101	50	50.8	102	78 - 130		49.8	100		
1868-53-7	Dibromofluoromethane	50.4	101	50	50.6	101	77 - 127		49.7	99		

GC/MS Volatiles Quality Control Summary

Analytical Batch	486341	**Client ID**	MB486341			LCS486341				LCSD486341		
Prep Batch	N/A	**GCAL ID**	1090244			1090245				1090246		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	07/25/2012 23:16			07/25/2012 21:34				07/25/2012 21:56		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
2037-26-5	Toluene d8	49.3	99	50	50.3	101	76 - 134		49.6	99		
17060-07-0	1,2-Dichloroethane-d4	49	98	50	50.2	100	71 - 127		49.5	99		

Analytical Batch	486371	**Client ID**	MB486371			LCS486371				LCSD486371		
Prep Batch	N/A	**GCAL ID**	1090388			1090389				1090390		
		Sample Type	Method Blank			LCS				LCSD		
		Analytical Date	07/26/2012 12:34			07/26/2012 11:06				07/26/2012 11:27		
		Matrix	Water			Water				Water		
SW-846 8260B		**Units**	ug/L	**Spike**	**Result**		**Control**		**Result**		**RPD**	**RPD**
		Result	**RDL**	**Added**		**% R**	**Limits % R**			**% R**		**Limit**
994-05-8	t-amyl methyl ether (TAME)	1.05U	1.05	50.0	50.7	101	50 - 150		53.2	106	5	50
75-65-0	t-Butanol (TBA)	0.290U	0.290	50.0	42.9	86	50 - 150		49.7	99	15	50
108-20-3	diisopropyl Ether (DIPE)	0.105U	0.105	50.0	50.6	101	50 - 150		52.1	104	3	50
637-92-3	Ethyl tert-butyl ether (ETBE)	1.11U	1.11	50.0	51.6	103	50 - 150		52.8	106	2	50
624-95-3	ethyl tert-butanol (ETBA)	37.6U	37.6	2550	2200	86	50 - 150		2670	105	19	50
64-17-5	Ethanol	81.8U	81.8	25200	23300	92	50 - 150		25400	101	9	50
75-85-4	tert-amyl alcohol (TAA)	1.39U	1.39	200	177	89	50 - 150		215	108	19	50
762-75-4	tert-butyl formate (TBF)	2.16U	2.16	50.0	57.2	114	50 - 150		59.1	118	3	50
Surrogate												
460-00-4	4-Bromofluorobenzene	49.7	99	50	50.9	102	78 - 130		51.2	102		
1868-53-7	Dibromofluoromethane	51.3	103	50	49.9	100	77 - 127		50	100		
2037-26-5	Toluene d8	49.9	100	50	48.6	97	76 - 134		49.6	99		
17060-07-0	1,2-Dichloroethane-d4	50	100	50	49.9	100	71 - 127		50.1	100		

General Chromatography Quality Control Summary

Analytical Batch	486437	**Client ID**	MB486129	LCS486129	LCSD486129
Prep Batch	486129	**GCAL ID**	1089282	1089283	1089284
Prep Method	SW-846 8011	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/24/2012 16:20	07/24/2012 16:20	07/24/2012 16:20
		Analytical Date	07/25/2012 10:32	07/25/2012 10:54	07/25/2012 11:16
		Matrix	Water	Water	Water

SW-846 8011		**Units**	ug/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
106-93-4	1,2-Dibromoethane	0.00290U	0.00290	1.07	0.972	91	55 - 141	0.953	91	2	40

Analytical Batch	486437	**Client ID**	MB486130	LCS486130	LCSD486130
Prep Batch	486130	**GCAL ID**	1089285	1089286	1089287
Prep Method	SW-846 8011	**Sample Type**	Method Blank	LCS	LCSD
		Prep Date	07/24/2012 13:48	07/24/2012 13:48	07/24/2012 13:48
		Analytical Date	07/25/2012 19:47	07/25/2012 20:09	07/25/2012 20:30
		Matrix	Water	Water	Water

SW-846 8011		**Units**	ug/L	**Spike**			**Control**				**RPD**
		Result	**RDL**	**Added**	**Result**	**% R**	**Limits % R**	**Result**	**% R**	**RPD**	**Limit**
106-93-4	1,2-Dibromoethane	0.00290U	0.00290	1.09	1.16	106	55 - 141	1.22	112	5	40

Inorganics Quality Control Summary

Analytical Batch	486227	**Client ID**	MB486100			LCS486100		
Prep Batch	486100	**GCAL ID**	1089172			1089173		
Prep Method	SW-846	**Sample Type**	Method Blank			LCS		
	3010A	**Prep Date**	07/23/2012 11:30			07/23/2012 11:30		
		Analytical Date	07/24/2012 20:01			07/24/2012 20:09		
		Matrix	Water			Water		
SW-846 6010C		**Units**	mg/L	**Spike**		**Result**		**Control**
		Result	**RDL**	**Added**			**% R**	**Limits % R**
7439-92-1	Lead	0.0028U	0.0028	0.50		0.48	96	80 - 120

Analytical Batch	486227	**Client ID**	MW-6			1089095MS		
Prep Batch	486100	**GCAL ID**	21207231004			1089175		
Prep Method	SW-846	**Sample Type**	SAMPLE			MS		
	3010A	**Prep Date**	07/23/2012 11:30			07/23/2012 11:30		
		Analytical Date	07/24/2012 20:15			07/24/2012 20:29		
		Matrix	Water			Water		
SW-846 6010C		**Units**	mg/L	**Spike**		**Result**		**Control**
		Result	**RDL**	**Added**			**% R**	**Limits % R**
7439-92-1	Lead	0.0	0.0028	0.50		0.45	90	75 - 125

Analytical Batch	486227	**Client ID**	MW-6			1089095DUP		
Prep Batch	486100	**GCAL ID**	21207231004			1089174		
Prep Method	SW-846	**Sample Type**	SAMPLE			DUP		
	3010A	**Prep Date**	07/23/2012 11:30			07/23/2012 11:30		
		Analytical Date	07/24/2012 20:15			07/24/2012 20:22		
		Matrix	Water			Water		
SW-846 6010C		**Units**	mg/L		**Result**		**RPD**	
		Result	**RDL**			**RPD**	**Limit**	
7439-92-1	Lead	0.0	0.0028		0.0	0	20	

Inorganics Quality Control Summary

Analytical Batch	486275	**Client ID**	MB486101		LCS486101
Prep Batch	486101	**GCAL ID**	1089177		1089178
Prep Method	SW-846 3010A	**Sample Type**	Method Blank		LCS
		Prep Date	07/23/2012 11:30		07/23/2012 11:30
		Analytical Date	07/25/2012 23:52		07/25/2012 23:59
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-92-1	Lead	0.0028U	0.0028	0.50	0.45	91	80 - 120

Analytical Batch	486275	**Client ID**	MW-21		1089121MS
Prep Batch	486101	**GCAL ID**	21207231024		1089180
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE		MS
		Prep Date	07/23/2012 11:30		07/23/2012 11:30
		Analytical Date	07/26/2012 00:05		07/26/2012 00:19
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
7439-92-1	Lead	0.0	0.0028	0.50	0.45	90	75 - 125

Analytical Batch	486275	**Client ID**	MW-21		1089121DUP
Prep Batch	486101	**GCAL ID**	21207231024		1089179
Prep Method	SW-846 3010A	**Sample Type**	SAMPLE		DUP
		Prep Date	07/23/2012 11:30		07/23/2012 11:30
		Analytical Date	07/26/2012 00:05		07/26/2012 00:12
		Matrix	Water		Water

SW-846 6010C		**Units**	mg/L	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
7439-92-1	Lead	0.0	0.0028	0.0	0	20

Access|4565|21207231O|7|27|12

LAB USE ONLY

Access Analytical - Chain of Custody Record

Project Work Order #

Sales Order # _____ PO # _____ Access Quote # _____ Laboratory ID: GCal

Company Name: TERRACON

Report To: REGAN NORRIS

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803 741 9000 Fax: 803 741 9926

Email: RWNORRIS@TERRACON.COM

Project ID: Eddies Pit Stop

Sampled By: BKPE

Preservative (*see codes): 1 1 3

Container Type (*see codes): 3 2 1

REQUESTED LAB ANALYSIS: BTEX NAPH MTBE DCA | EDB | LEAD

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4

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

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

*Container Type: G = Glass, P = Plastic

Sample ID/Description	Date Collected	Time Collected	Type: (grab or composite)	Matrix: (see codes)	Program Area: (see codes)	TOTAL # of containers	# of containers collected per analysis			NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-1	7.19.12	815	G	GW	CWA	6	3	2	1	1
MW-4	7.18.12	1830	G	GW	CWA	6	3	2	1	2
MW-5	7.19.12	730	G	GW	CWA	6	3	2	1	3
MW-6	7.18.12	1700	G	GW	CWA	6	3	2	1	4
MW-8	7.19.12	900	G	GW	CWA	6	3	2	1	5
MW-8d	7.19.12	1000	G	GW	CWA	6	3	2	1	6
MW-10	7.18.12	1500	G	GW	CWA	6	3	2	1	7
MW-11	7.18.12	1730	G	GW	CWA	6	3	2	1	8
MW-12	7.20.12	815	G	GW	CWA	6	3	2	1	9
MW-13	7.20.12	845	G	GW	CWA	6	3	2	1	10

Turnaround Time:

X Standard

___ RUSH*

*Date Required: _____

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

Project Location:

X SC

___ NC

___ Other

(specify) _____

Relinquished By:	Received By:	Date (mm/dd/yy)	Time (24 HR)	Cooler Temp (°C) Receipt (°C)	
		7/20/12	1440	(1) 2.1 / 2.9	(3) 3.6 (N/A)
		7/20/12	1700	___ (°C)	___ (N/A)
FEDEX		7/21/12	940	2.8 / 4.3 (°C)	___ (N/A)
5035 7502 7994				1.3 (°C)	___ (N/A)

coolers: 1, 2, 3

See Reverse for Terms and Conditions

Original Copy - Returned w/Report
Yellow Copy - Access File Copy
Pink Copy - Client Copy

Access/4565/ 21207231O/7/27/12

LAB USE ONLY

Access Analytical - Chain of Custody Record

Sales Order # _____ PO # _____ Access Quote # _____

Project Work Order # _____

Laboratory ID: _____

Company Name: TERRACON

Report To: REGAN NORRIS

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803 7419000 Fax: 8037419908

Email: RLNORRIS@TERRACON.COM

Project ID: Eddies Pitt stop

Sampled By: AKPE

Preservative (*see codes): 1 1 3

Container Type (*see codes): 3 2 1

REQUESTED LAB ANALYSIS: BTEX NAPHTHALENE MTBE OXY DCA EDB Lead

Sample ID/Description	Date Collected	Time Collected	Type: (grab or composite)	Matrix (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected per analysis			NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
MW-14	7.19.12	1408	G	GW	CWA	6	3	2	1	11
MW-15	7.20.12	945	G	GW	CWA	6	3	2	1	12
MW-15d	7.19.12	1315	G	GW	CWA	6	3	2	1	13
MW-16	7.19.12	1530	G	GW	CWA	6	3	2	1	14
MW-16d	7.19.12	1500	G	GW	CWA	6	3	2	1	15
MW-17	7.18.12	1530	G	GW	CWA	6	3	2	1	16
MW-17d	7.18.12	1630	G	GW	CWA	6	3	2	1	17
MW-18	7.20.12	730	G	GW	CWA	6	3	2	1	18
MW-18d	7.19.12	1100	G	GW	CWA	6	3	2	1	19
MW-19	7.20.12	915	G	GW	CWA	6	3	2	1	20

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = $Na_2S_2O_3$, 6 = Method 5035 set w/ $NaHSO_4$ & CH3OH, 7 = NaOH/ZnOAC, 8 = H_3PO_4

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

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:

X Standard
X RUSH*
*Date Required: _____
*For rush work, results emailed/faxed by end of business day on date required)

Project Location:

X SC
NC
Other
(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Temp. Upon Receipt (°C)	
[signature]	[signature]	7/20/12	1740	① Coolers: 2.1/2.9/3.6	(N/A)
[signature]	FEDEX			(°C)	(N/A)
FEDEX	Odie McClure	7-21-12	9:40	2.8 / 4.3 (°C)	(N/A)
				1.3 (°C)	(N/A)

See Reverse for Terms and Conditions

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Pink Copy - Client Copy

Access/4565/212072310/7/27/12

Access Analytical - Chain of Custody Record

LAB USE ONLY

Sales Order # _____ PO # _____ Access Quote # _____

Project Work Order # _____

Laboratory ID: _____

Company Name: TERRACON

Report To: REGAN NORRIS

Address: 521 Clemson Rd

City: Columbia State: SC Zip: 29229

Phone: 803 741 9000 Fax: 803 741 9900

Email: RWNORRIS@TERRACON.COM

Project ID: Eddies Pit Stop

Sampled By: BKRE

Sample ID/Description	Date Collected	Time Collected	Type: (grab or composite)	Matrix: (see codes)	Program Area (see codes)	TOTAL # of containers	# of containers collected per analysis: BTEX/NAPH-MTBE (8260)	# of containers collected per analysis: EDB	# of containers collected per analysis: Lead										NOTES / COMMENTS (if sample is a composite please use space below to note start/finish times & dates)
Preservative: (*see codes)							1	1	3										
Container Type: (*see codes)							3	2	1										
MW-19d	7.19.12	1200	G	GW	CWA	6	3	2	1										21
MW-20	7.18.12	1430	G	GW	CWA	6	3	2	1										22
MW-20d	7.18.12	1400	G	GW	CWA	6	3	2	1										23
MW-21	7.18.12	1300	G	GW	CWA	6	3	2	1										24
MW-21d	7.18.12	1240	G	GW	CWA	6	3	2	1										25
MW-22	7.18.12	1100	G	GW	CWA	6	3	2	1										26
MW-22d	7.18.12	1200	G	GW	CWA	6	3	2	1										27

ACCESS ANALYTICAL, INC.

7478 Carlisle Street
Irmo, SC 29063

Phone: (803) 781-4243
Fax: 781-4303

www.axs-inc.com

*Preservative Codes (place corresponding # in block above analysis field): 0 = None, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Na2S2O3, 6 = Method 5035 set w/ NaHSO4 & CH3OH, 7 = NaOH/ZnOAC, 8 = H3PO4

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

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

*Container Type: G = Glass, P = Plastic

Turnaround Time:

X Standard
___ RUSH*
*Date Required: _____
(For rush work, results emailed/faxed by end of business day on date required)

Project Location:
X SC
___ NC
___ Other
(specify) _____

Relinquished By:	Received By:	Date (mm-dd-yy)	Time (24HR)	Temperature On Receipt (°C)	
		7/20/12	1440	@ cooler 2.1 / 2.9 / 3.6 (°C)	(N/A)
	FEDEX	7/20/12	1700	____ (°C)	____ (N/A)
FEDEX	Odie McCune	7-21-12	9:40	2.8 / 4.3 / 1.3 (°C)	____ (N/A)
5035 7502 7994				____ (°C)	____ (N/A)

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Yellow Copy - Access File Copy
Pink Copy - Client Copy

Pg 3 of 3

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

SAMPLE RECEIVING CHECKLIST

SDG
212072310

PROJECT

Client 4565 - Access Analytical	**Transport Method** FEDEX
Profile 78454 - Terracon -	**Received By** Saucier, Charlotte
Line Item(s) 2 - Water BTEX//Naph/MTBE/1,2-DCA/PAH	**Receive Date(s)** 07/21/12

CHECKLIST

Were all samples received using proper thermal preservation?	☑ Yes	☐ No	☐ NA
When used, were all custody seals intact?	☑ Yes	☐ No	☐ NA
Were all samples received in proper containers?	☑ Yes	☐ No	☐ NA
Were all samples received using proper chemical preservation?	☑ Yes	☐ No	☐ NA
Was preservative added to any container at the lab?	☐ Yes	☑ No	☐ NA
Were all containers received in good condition?	☑ Yes	☐ No	☐ NA
Were all VOA vials received with no head space?	☑ Yes	☐ No	☐ NA
Do all sample labels match the Chain of Custody?	☑ Yes	☐ No	☐ NA
Did the Chain of Custody list the sampling technician?	☑ Yes	☐ No	☐ NA

COOLERS

Airbill	Temp(oC)
5035 7502 7994 MSTR	2.8
	4.3
	1.3

DISCREPANCIES

None

LABORATORY PRESERVATIONS

None

NOTES

212072310

APPENDIX E

Waste Disposal 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 5

GENERATOR

3. Generator's Name and Mailing Address
SCDOT P.O. Box 191, Columbia, S.C.

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
Palmetto Oil Recovery	S.C.R.0.0.0.7.7.1.6.7.5	803-586-3827
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Eddies Pit Stop Rt 2 U.S. Hwy 601 North, Pageland, S.C.		

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non RCRA Non Regulated Solids	030	M	1650	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Signatory agent for SCDOT W. Walker		09	06	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jamie Gunter		09	06	11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Jamie Gunter		09	06	11

Printed by J. J. KELLER & ASSOCIATES, INC
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

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. 26 | 2. Page 1 of 5

GENERATOR

3. Generator's Name and Mailing Address
SCDOT
P.O. Box 191 Room 324
Columbia, SC 29202-0191
Site: Eddie's Pit Stop
Rt. 2 US Hwy 601 North
Pageland, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name: Palmetto Oil Recovery | 6. US EPA ID Number: S.C.R.0.0.0.7.7.1.6.7.5 | A. Transporter's Phone: (803) 586-3827

7. Transporter 2 Company Name | 8. US EPA ID Number: . . . . . | B. Transporter's Phone

9. Designated Facility Name and Site Address
Palmetto Oil Recovery
827 North Edisto Rd.
Leesville, SC 29070
10. US EPA ID Number: S.C.R.0.0.0.7.7.1.6.7.5
C. Facility's Phone: (803) 586-3827

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA Non Regulated Solids	006	DM	0.3.0.00	Kg.
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Signatory agent for SCDOT		1	10	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jamie Gunter		01	10	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		.	.	.

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Jamie Gunter		01	10	12

Printed by J. J. KELLER & ASSOCIATES, INC
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
SC DOT
PO Box 191
Columbia SC 29202
Generator's Phone:

Generator's Site Address (if different than mailing address)
Eddies Pitt Stop
Route 2 US Hwy 601 Pelion SC

6. Transporter 1 Company Name: V-Pro — 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:

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz waste	1	ST	1	SY	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Paul Kirkpatrick — Signature — Month: 1 Day: 27 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rahul Fnu — Signature — Month: 1 Day: 27 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

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: Sherrie A. Gamble — Signature — Month: 1 Day: 27 Year: 12

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

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. 0.0.0.2.7 | 2. Page 1 of 5

GENERATOR

3. Generator's Name and Mailing Address
SCDOT
P.O. Box 191, Columbia, SC
Site: Eddie's Pitt Stop
Rt. 2 U.S. Hwy 601 North
Pageland, SC
4. Generator's Phone ( )

5. Transporter 1 Company Name: Palmetto Oil Recovery | 6. US EPA ID Number: S.C.R.0.0.0.7.7.1.6.7.5 | A. Transporter's Phone: 803-586-3827

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address
Palmetto Oil Recovery
827 North Edisto Rd
Leesville, SC 29070
10. US EPA ID Number: S.C.R.0.0.0.7.7.1.6.7.5
C. Facility's Phone: 803-586-3827

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non RCRA Non Regulated Solids	046	DM	23.000	lbs.
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Signatory agent for SCDOT William Walker | Signature | Month 4 | Day 11 | Year 12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jamie Gunter | Signature | Month 04 | Day 09 | Year 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jamie Gunter | Signature | Month 04 | Day 09 | Year 12

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Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
SCDOT
P.O Box 191
Columbia SC 29202
Generator's Phone:

Generator's Site Address (if different than mailing address)
Eddie's Pit Stop
Rt. 2 US Hwy 601 N.
Pageland, SC

6. Transporter 1 Company Name: VERCO — 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:
[illegible]
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non RCRA Non Regulated liquids	7	DM	385	Gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: As Secretary Agent for Regan W. Morris SCDOT — Signature: RWM — Month: 4 — Day: 11 — Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Treem — Signature — Month: 4 — Day: 11 — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

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: Steve A Gamble — Signature — Month: 4 — Day: 11 — Year: 12

6-NHM-C-SO-1158

5. TRANSPORTER'S COPY

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

GENERATOR

3. Generator's Name and Mailing Address
Eddies Pit Stop (SCDOT)
Route 2, US Hwy 601 N,
4. Generator's Phone ( ) Pageland, SC

5. Transporter 1 Company Name: VERCO | 6. US EPA ID Number . . . . . | A. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number . . . . . | B. Transporter's Phone

9. Designated Facility Name and Site Address
ARD Environmental
1711 Cokes Ferry Rd
Lexington SC
10. US EPA ID Number . . . . . | C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Haz Waste	4	DM	180	Gals
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Regan W. Wells As Signatory Agent For SCDOT		08	03	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Robert Fine		08	03	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Bill Atkins		8	3	12

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Neenah, WI 54957-0368

TRANSPORTER # 1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 10152

GENERATOR

5. Generator's Name and Mailing Address

TERRACON CONSULTANTS
521 CLEMSON RD.
COLUMBIA, SC

Generator's Phone: 803-791-9000

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

EDDIE'S PIT STOP
RT2 US HWY 601
PAGELAND, SC

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

Facility's Phone: 803-418-5314

U.S. EPA ID Number:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2. nonhazardous petroleum contaminated soil/product	30	DM	30		
	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: Roger W. Nettles — Signature — Month: 8 — Day: 24 — Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve A. Gamble — Signature — Month: 8 — Day: 24 — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

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

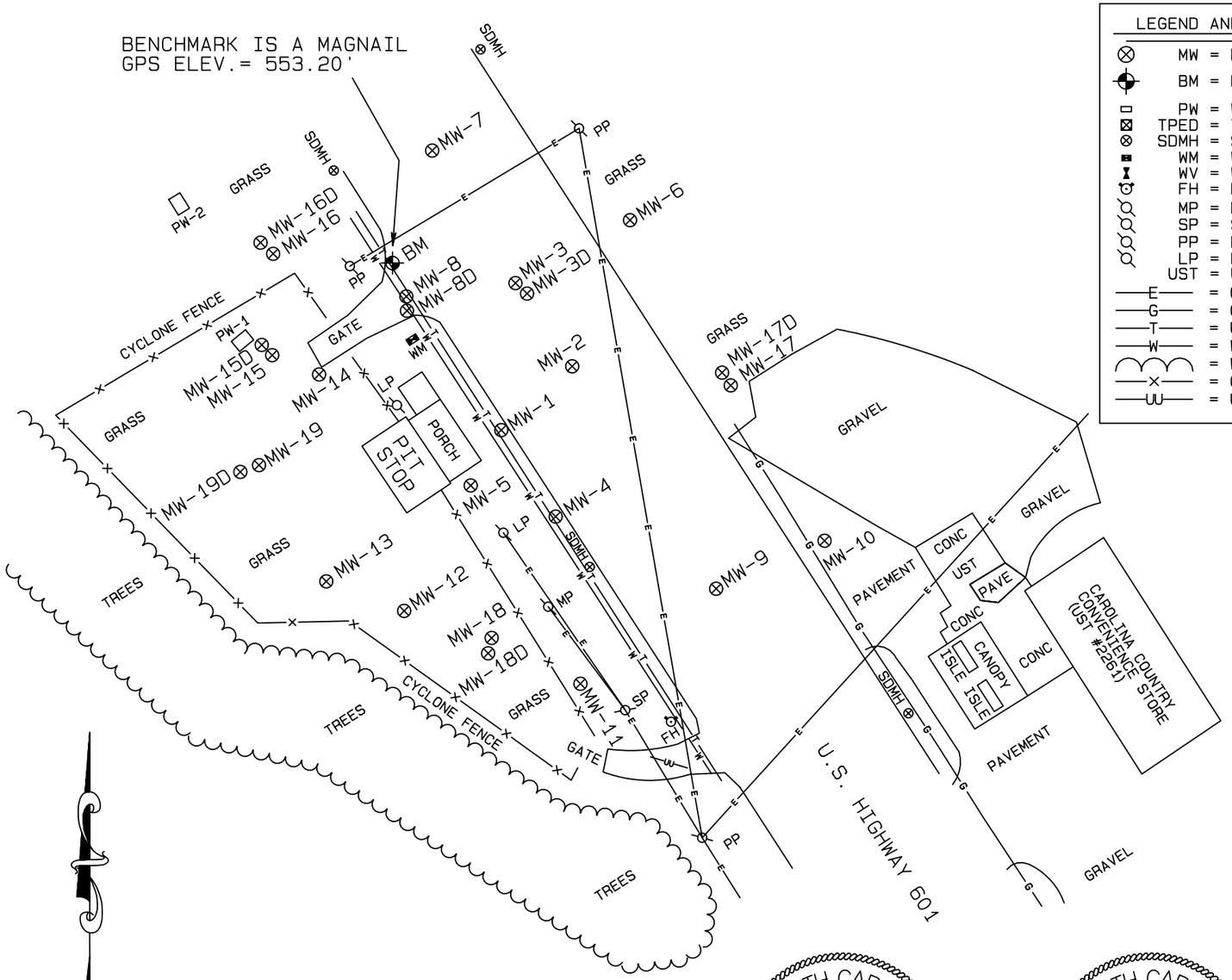
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR'S/SHIPPER'S INITIAL COPY

APPENDIX F

Comprehensive Survey



LEGEND AND ABBREVIATIONS:

- MW = MONITORING WELL
- BM = BENCHMARK
- PW = WATER SUPPLY WELL
- TPED = TELEPHONE PEDESTAL
- SDMH = STORM DRAIN MAN HOLE
- WM = WATER METER
- WV = WATER VALVE
- FH = FIRE HYDRANT
- MP = METER POLE
- SP = SERVICE POLE
- PP = POWER POLE
- LP = LIGHT POLE
- UST = UNDERGROUND STORAGE TANK AREA
- E = OVERHEAD POWER LINE
- G = GAS LINE
- T = UNDERGROUND TELEPHONE LINE
- W = WATER LINE
- = WOOD LINE
- X = CYCLONE FENCE LINE
- UU = UNKNOWN UNDERGROUND UTILITY

MONITOR WELLS

WELL	TOL ELEV.	TOC ELEV.
MW-1	554.36	554.13
MW-2	554.41	554.18
MW-3	554.12	553.62
MW-3D	554.14	553.74
MW-4	554.69	554.56
MW-5	551.68	551.42
MW-6	554.11	553.79
MW-7	553.85	553.42
MW-8	553.15	552.76
MW-8D	552.89	552.53
MW-9	555.42	554.89
MW-10	555.14	554.79
MW-11	549.11	548.76
MW-12	546.06	545.68
MW-13	545.63	545.20
MW-14	546.90	546.48
MW-15	546.09	545.77
MW-15D	546.21	545.89
MW-16	546.86	546.47
MW-16D	546.81	546.59
MW-17	554.69	554.33
MW-17D	554.63	554.30
MW-18	546.82	546.56
MW-18D	546.70	546.27
MW-19	544.95	544.53
MW-19D	544.54	544.11

SC STATE PLANE
COORDINATE SYSTEM
NAD 83, NAVD 88
GRID NORTH

THIS PARCEL MAY BE SUBJECT TO EASEMENT AND/OR RIGHT-OF-WAYS NOT SHOWN. FINAL RESULTS, CONCLUSIVE OF TITLE SEARCH

SOUTH CAROLINA
REGISTERED LAND SURVEYOR
No. 14811
JAY S. JOSHI

SOUTH CAROLINA
CONSTRUCTION SUPPORT SERVICES
No. C02425
CERTIFICATE OF AUTHORIZATION

COMPREHENSIVE SITE SKETCH OF

EDDIE'S PIT STOP

ROUTE 2, U.S. HIGHWAY 601
PAGELAND, CHESTERFIELD COUNTY, SC
UST PERMIT #18871
PREPARED FOR

TERRACON

GRAPHIC SCALE 1"=50'

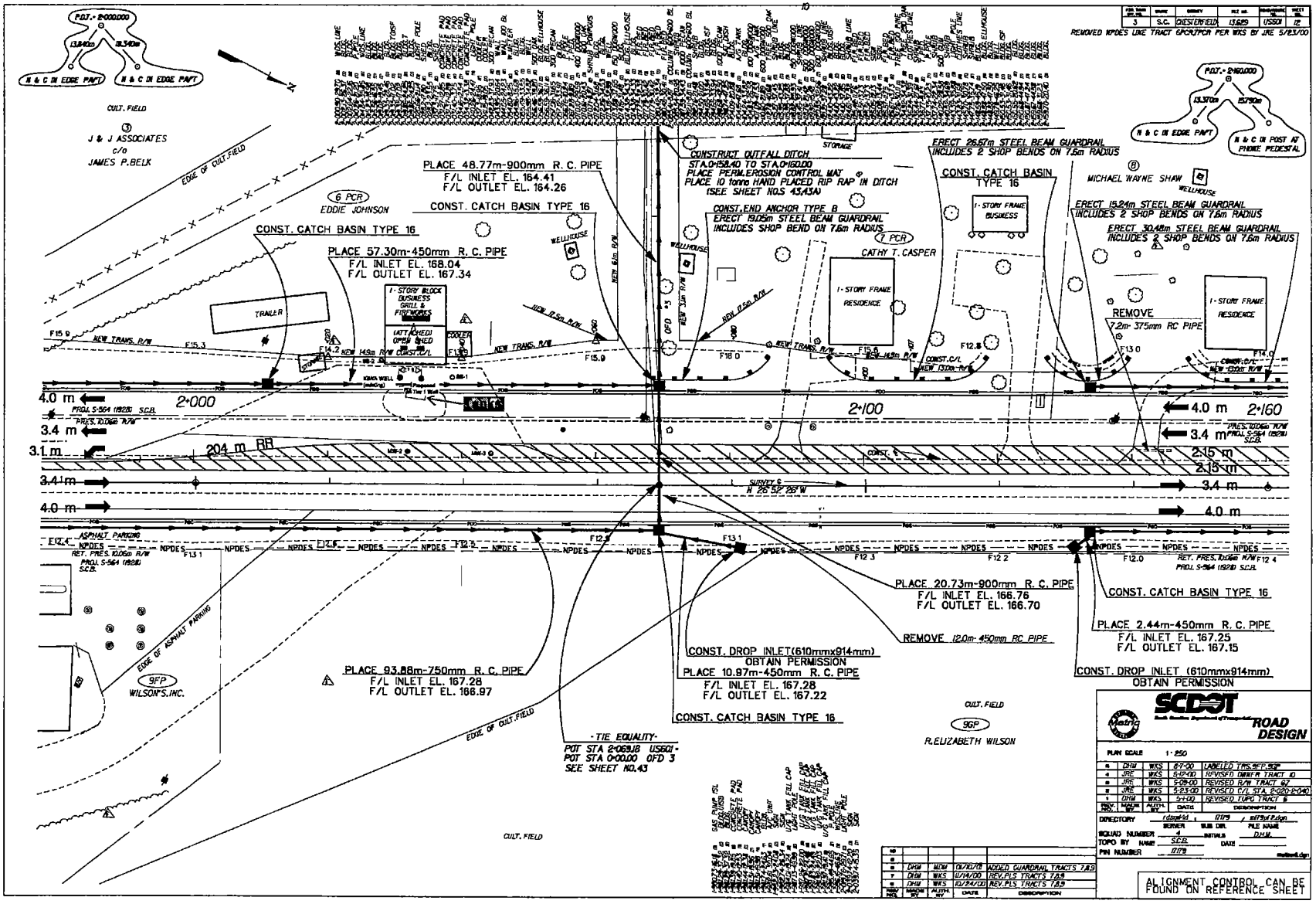
0 50 100 150

NOTE:
NOT FOR THE PURPOSE OF RECORDATION AT COUNTY, COURTHOUSE OR THE CONVEYANCE OF PROPERTY.

NOTE:
I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

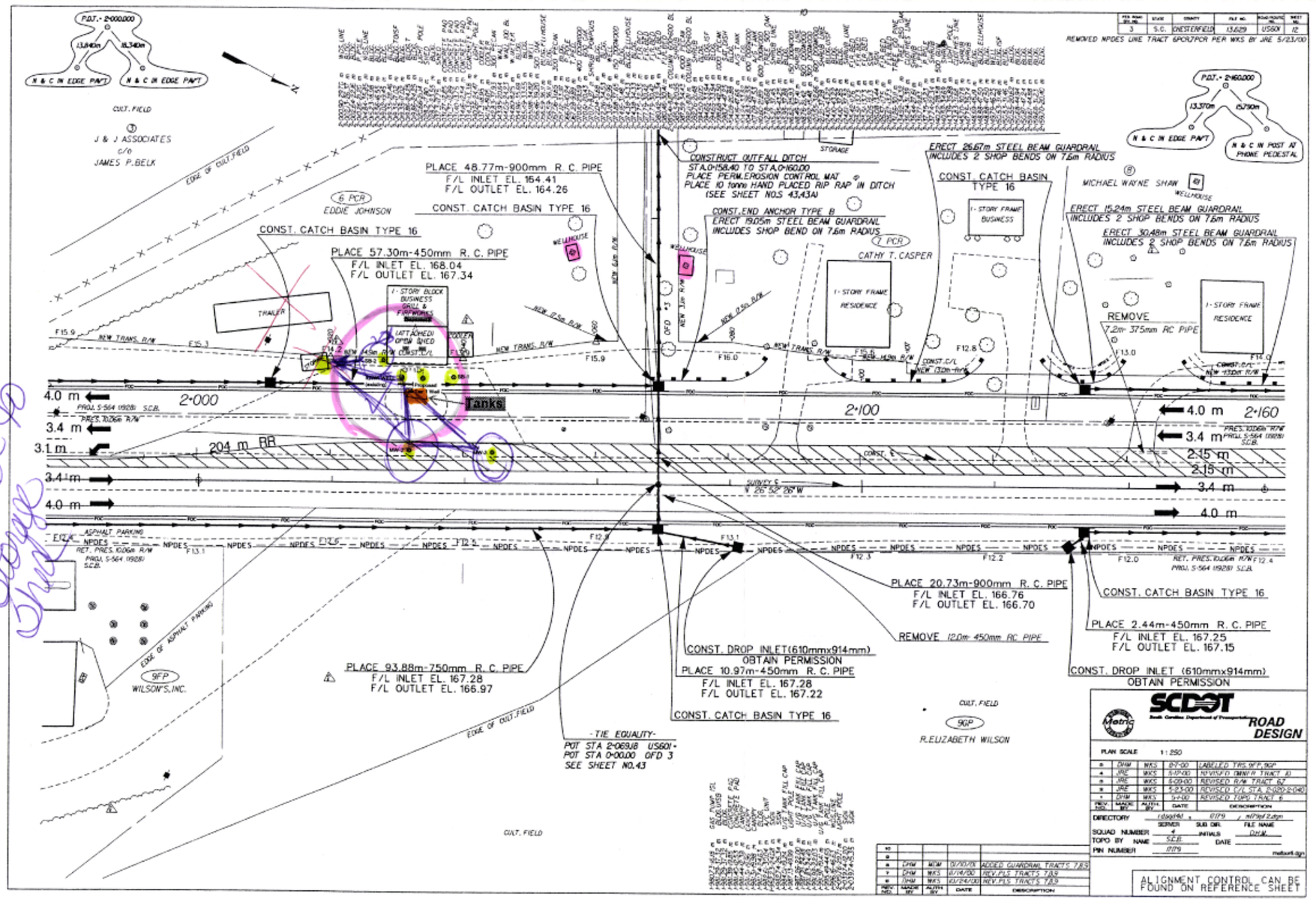
JAY S. JOSHI PLS # 14811
P.O. BOX 90408, COLUMBIA, SC, 29290 803-776-9909

DATE: APRIL 24, 2012 JOB #041912P



NO.	BY	AUTH BY	DATE	DESCRIPTION
3	S.C.	CHESTERFIELD	13.625	US601	12
5	DHW	MDW	06/16/00	ADDED GUARDRAIL TRACTS 7,8,9
7	DHW	WKS	07/14/00	REV. P.I.'S TRACTS 7,8,9
8	DHW	WKS	10/24/00	REV. P.I.'S TRACTS 7,8,9
4	JRE	WKS	6-7-00	LABELED TIES 9FP, 9GP
6	JRE	WKS	6-12-00	REVISED OWNER TRACT 10
9	JRE	WKS	9-08-00	REVISED R/W TRACT 6Z
2	JRE	WKS	5-23-00	REVISED C/L STA. 2+020-2+040
1	DHW	WKS	5-1-00	REVISED TOPO TRACT 6

Evans/R
C:\cdsqd4\17179\m179pf2.dgn
01-NOV-2001



1908 Hwy 601

18871

SB-2 about 40 storage shed

Evans,R
C:\rdsgd4\17179\rm179pf2.dgn
01-NOV-2001

D H E C

PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

MR PETER REINHART
SC DEPARTMENT OF TRANSPORTATION
PO BOX 191
COLUMBIA SC 29202-0191

JAN 28 2015

UST DOCKETING 15tel

Re: **Site Specific Work Plan (SSWP) Request**
Eddie's Pit Stop, Route 2 & Highway 601 North, Pageland, SC
UST Permit #18871
Release Reported August 29, 2002
Tier II Report Received August 27, 2012
Chesterfield County

Dear Mr. Reinhart:

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

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0 and must be conducted in compliance with all applicable regulations. Groundwater samples should be collected from all monitoring wells and water supply wells and analyzed for BTEX + Naphth + MtBE, 1,2-DCA, 8 oxygenates, and EDB. All monitoring wells will need to be purged since it has been greater than 12 months since the last groundwater sampling event. A copy of the Agency QAPP Revision 2.0 for the UST Management Division is available at http://www.scdhec.gov/Environment/docs/QAPP_Rev-2_April2013.pdf.

Please have your contractor complete and submit the Site Specific Work Plan (SSWP) and Cost Agreement within thirty (30) days of 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 technical and financial preapproval from the Agency must be issued before work begins.**

On all correspondence concerning this site, please reference **UST Permit #18871.** If you have any questions concerning this project, please contact me at (803) 898-0607 or by email at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

cc: Terracon Consultants, Inc., 521 Clemson Rd., Columbia, SC 29229-4307
Technical File

LETTER OF TRANSMITTAL

Terracon
521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ms. Ashleigh Thrash

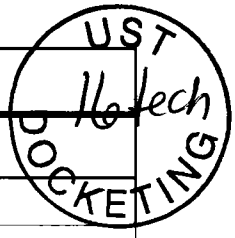
SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 2/27/15	JOB NO. 73098106
RE: Eddies Pit Stop Site-Specific Work Plan	
UST Permit #18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:



COPIES	DATE	DESCRIPTION
1		Site Specific Work Plan –Ground Water Assessment

THESE ARE TRANSMITTED as checked below:

- ☐ For approval
- ☐ For your use
- ☐ As requested
- ☐ For review and comment
- ☐ Approved as submitted
- ☐ Approved as noted
- ☐ Returned for corrections
- ☐ Resubmit ___ copies for approval
- ☐ Submit ___ copies for distribution
- ☐ Return ___ corrected prints

REMARKS:

Enclosed is the SSWP for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: _____

_____

SIGNED: **Mike Hudgins**

If enclosures are not as noted, kindly notify us at once.

D H E C
PROMOTE PROTECT PROSPER

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

To: Ashleigh Thrash (SCDHEC Project Manager)
From: Mike Hudgins (Contractor Project Manager)
Contractor: Terracon Consultants UST Contractor Certification Number: 246

Facility Name: Eddie's Pit Stop UST Permit #: 18871
Facility Address: Route 2 & Highway 601, Pageland, SC
Responsible Party: South Carolina Department of Transportation Phone: 803-737-1395
RP Address: P.O. Box 191, Columbia, SC 29202-0191
Property Owner (if different): Eric Simpson
Property Owner Address: P.O. Box 1513, Lancaster, SC 29721
Current Use of Property: Vacant gas station.

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☑ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

☐ BTEXN

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

_____ Soil 2 Water Supply Wells _____ Air 4 Field Blank
32 Monitoring Wells _____ Surface Water 2 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
Monitoring Well development method (consistent with SOP): _____
Comments, if warranted:

UST Permit #: 18871 Facility Name: Eddie's Pit Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 7 Field Work Completion: 14
Report Submittal: 42 # of Copies Provided to Property Owners: _____

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

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 175 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/repaired. well pads/bolts/caps to replace. details of AFVR event. etc.
All monitoring wells associated with the release will be purged and sampled for this scope of work. Water supply wells PW-1, and PW-2 will be purged for a minimum of 30 minutes or until field parameters stabilize.

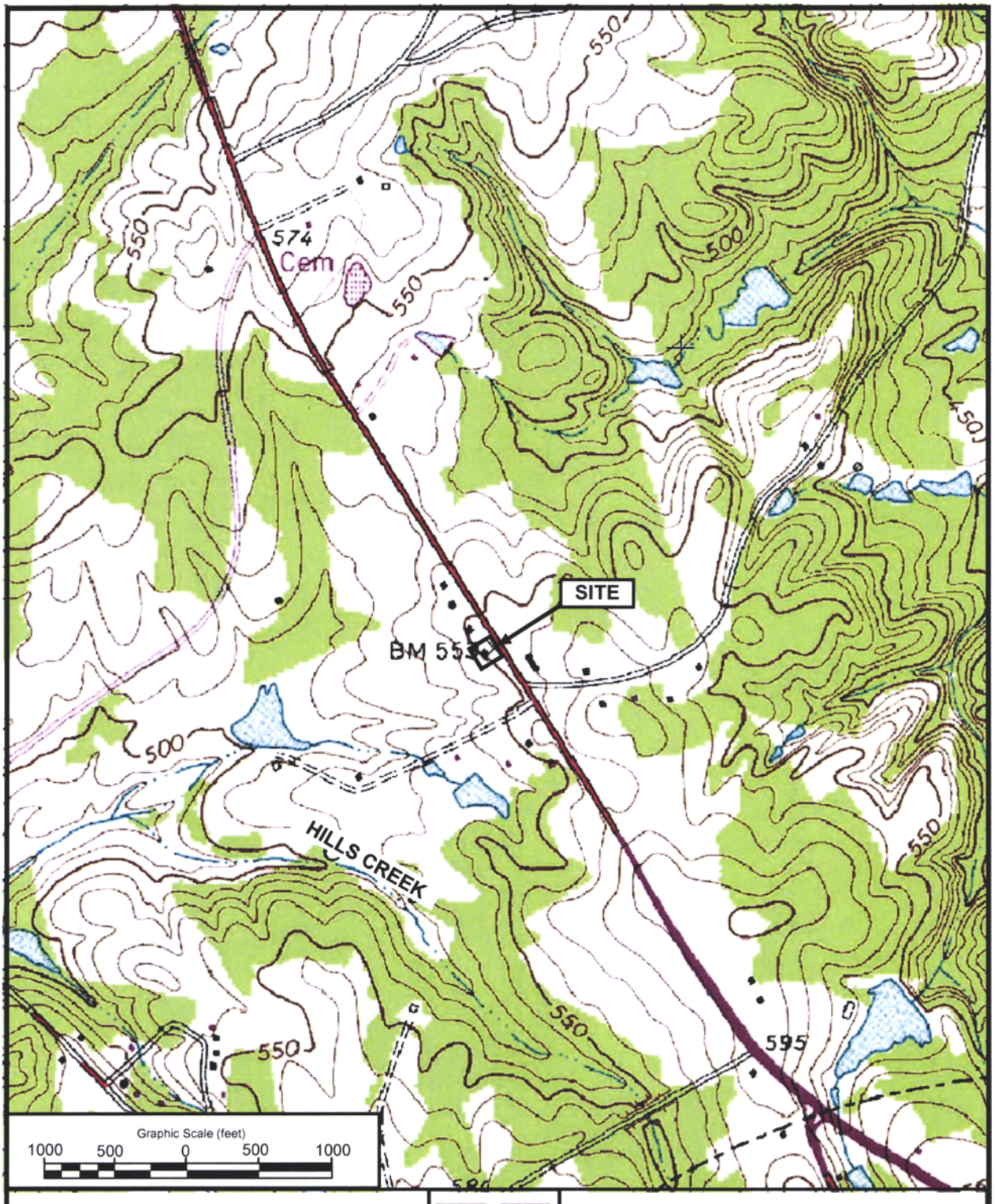
Sampling of the 10 monitoring wells across Hwy 601 on the UST Site # 02261 will depend on securing property access from the property owner.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
____ Laboratory as indicated in ACQAP? (Yes/No) If no. indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

____ Well Driller as indicated in ACQAO? (Yes/No) If no. indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled. but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address. UST permit number. and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement. SCDHEC Form D-3664



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

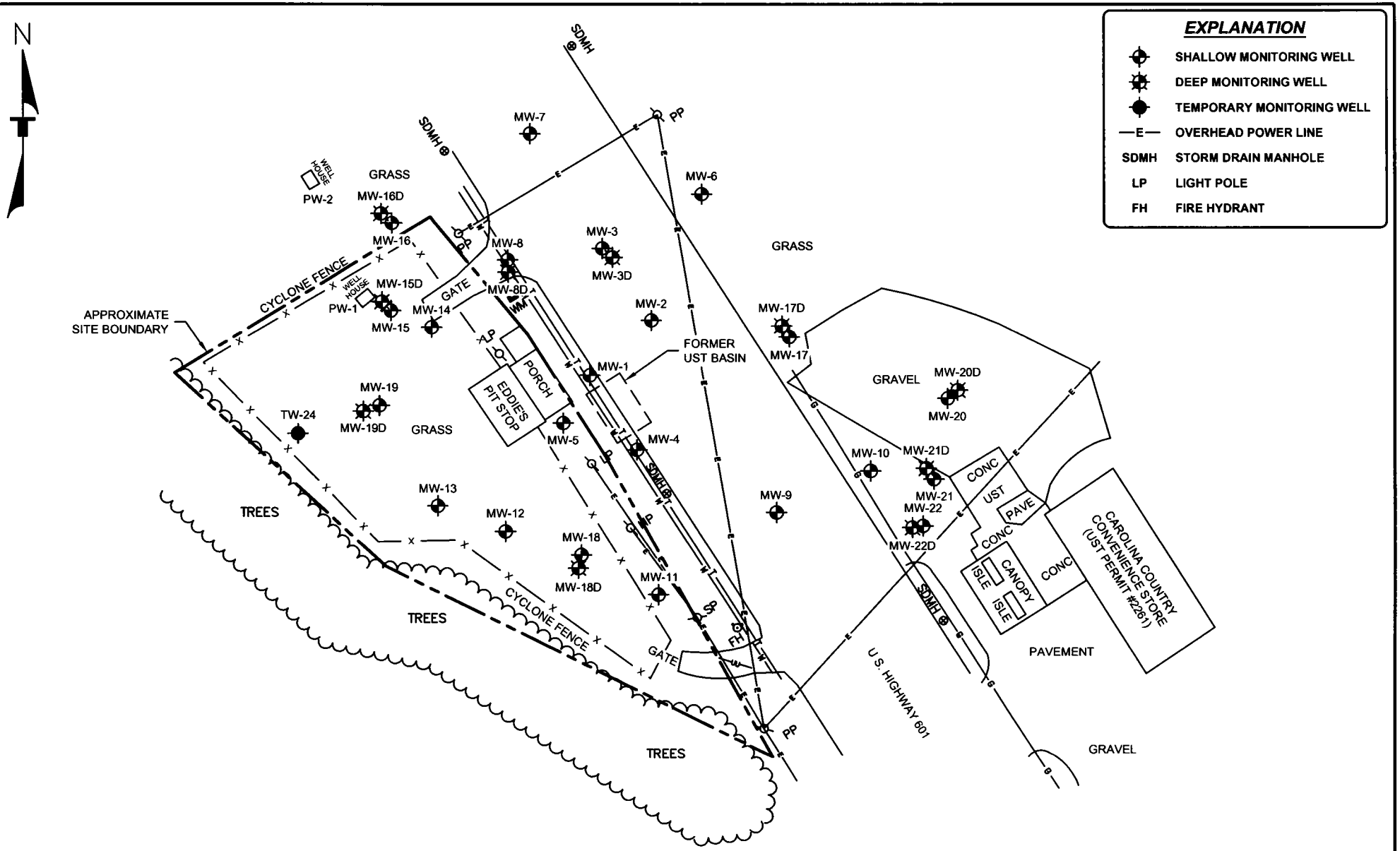
DATE: 1993
SCALE: 1 INCH = 1000 FEET
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr	RWN
Drawn By	PTK
Checked By	RWN
Approved By	PMH
Project No	73098106
Scale	AS SHOWN
File No	73098106
Date	AUGUST 2012

Terracon
Consulting Engineers and Scientists
521 CLEMSON ROAD COLUMBIA, SC 29229
PH (803) 741-9000 FAX (803) 741-9900

SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 3

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Program
State Underground Petroleum Environmental Response Bank

Facility Eddie's Pit Stop

UST Permit # 18871 **CA#** _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1 . Site-specific Work Plan	1	x	$150.00	**$150.00**
B1. Tax Map		x	$70.00	**$0.00**
C1. Tier II or Comp. Plan / QAPP App. B		x	$250.00	**$0.00**
2. A.1 Receptor Survey*		x	$551.00	**$0.00**
3. A1 Comprehensive Survey		x	$1,040.00	**$0.00**
4. Mob/Demob				
A1. Equipment		x	$1,020.00	**$0.00**
B1. Personnel	2	x	$423.00	**$846.00**
C1. Adverse Terrain Vehicle		x	$500.00	**$0.00**
5. A1 Soil Borings (hand augered)*		feet x	$5.00	**$0.00**
6. Soil Borings (drilled) & Field Screening	(includes collection and quantification)			
A1. Standard		feet x	$15.00	**$0.00**
C1. Fractured Rock		feet x	$20.20	**$0.00**
7. A1 Soil Leachability Model		x	$60.00	**$0.00**
8. Abandonment*				
A1. 2" or less		feet x	$3.10	**$0.00**
B1. 2+" to 6"		feet x	$4.50	**$0.00**
C1. Dug/bored well		feet x	$15.00	**$0.00**
9. Well Installation*	(includes drilling costs)			
A1. Water Table (hand auger)		feet x	$10.60	**$0.00**
B1. Water Table		feet x	$38.00	**$0.00**
CC. Telescoping		feet x	$50.00	**$0.00**
DD. Rock Drilling		feet x	$58.00	**$0.00**
E1. 2" Rock Coring		feet x	$30.90	**$0.00**
G1. Milti-sampling ports/screens		feet x	$33.40	**$0.00**
HH. Recovery Well (4 " dia.)		feet x	$45.00	**$0.00**
K. Redevelop existing well		feet x	$11.00	**$0.00**
10. Sample collection				
A1. Groundwater (purge)	32	samples x	$60.00	**$1,920.00**
B1. Air or Vapors		samples x	$12.00	**$0.00**
C1. Water Supply	2	samples x	$22.00	**$44.00**
D1. Groundwater (no purge or duplicate)	2	samples x	$28.00	**$56.00**
E1. Gauge Well Only		samples x	$7.00	**$0.00**
F1. Sample Below Product		samples x	$12.00	**$0.00**
G1. Passive Diffusion Bag		samples x	$26.00	**$0.00**
H1. Field Blank	4	samples x	$24.60	**$98.40**
11. Analyses-Groundwater				
A2. BTEXNM+Oxygs+1,2 DCA+Eth	42	samples x	$122.00	**$5,124.00**
AA1. Filtered Lead		samples x	$13.80	**$0.00**
B2. 8260B **RUSH Analysis**		samples x	$153.60	**$0.00**
C2. Trimethyl, Butyl, and Isopropolbenzenes		samples x	$36.40	**$0.00**
D1. PAHs		samples x	$60.60	**$0.00**
E1. Lead		samples x	$16.00	**$0.00**
F1. EDB by 8011	40	samples x	$45.20	**$1,808.00**
FF1. EDB by 8011 (RUSH)		samples x	$68.20	**$0.00**
G1. 8 RCRA Metals		samples x	$63.40	**$0.00**
H1. TPH (9070)		samples x	$41.00	**$0.00**
I1. pH		samples x	$5.20	**$0.00**
J1. BOD		samples x	$20.00	**$0.00**
PP. Ethanol		samples x	$14.80	**$0.00**
11. Analyses-Soil				
Q1. BTEX + Napth.		samples x	$64.00	**$0.00**
R1. PAH's		samples x	$64.04	**$0.00**
S1. 8 RCRA Metals		samples x	$56.40	**$0.00**
U1. TPH DRO(3550)		samples x	$40.00	**$0.00**
V1. TPH GRO(5035)		samples x	$35.96	**$0.00**
W1. Grain size / hydrometer		samples x	$104.00	**$0.00**
X1. Total Organic Carbon		samples x	$30.60	**$0.00**

Facility Eddie's Pit Stop

UST Permit # 18871 **CA#**

	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
11.	Analyses-Air				
	Y1. BTEX + Naphthalene		samples x	$247.50	**$0.00**
12.	Aquifer Characterization*				
	A1. Pumping Test		hours x	$23.00	**$0.00**
	B1. Slug test		tests x	$191.00	**$0.00**
	C1. Fractured Rock		tests x	$100.00	**$0.00**
13.	Free Product Recovery Rate Test*		tests x	$38.00	**$0.00**
14.	Fate & Transport Modeling				
	A. Mathematical Model		models x	$100.00	**$0.00**
	B. Computer Model		models x	$100.00	**$0.00**
15.	Risk Evaluation				
	A. Tier I Risk Evaluation		x	$300.00	**$0.00**
	B. Tier II Risk Evaluation		x	$100.00	**$0.00**
16. A1	Subsequent Survey*		x	$260.00	**$0.00**
17.	Disposal				
	AA. Wastewater	175	gallons x	$0.56	**$98.00**
	BB. Free Product		gallons x	$0.50	**$0.00**
	C1. Soil (Treatment/Disposal)*		tons	$60.00	**$0.00**
	D1. Drilling Fluids *		gallons x	$0.42	**$0.00**
18.	Miscellaneous Attach paid invoice receipts				
			x		**$0.00**
			x		**$0.00**
23.	AFVR				
	A1. 8-Hour Event*		x	$1,375.00	**$0.00**
	A2. 24-Hour Event*		x	$3,825.00	**$0.00**
	A3. 48-Hour Event*		x	$6,265.00	**$0.00**
	A4. 96-Hour Event*		x	$12,567.00	**$0.00**
	C1. Off-Gas Treatment - 8 hour		x	$122.50	**$0.00**
	C2. Off-Gas Treatment - 24 hour		x	$241.50	**$0.00**
	C3. Off-Gas Treatment - 48 hour		x	$327.00	**$0.00**
	C4. Off-Gas Treatment - 96 hour		x	$780.00	**$0.00**
	D. Site Reconaissance		x	$203.25	**$0.00**
	E1. Additional Hook-ups		x	$25.75	**$0.00**
	F. Effluent Disposal.		x	$0.44	**$0.00**
	G. AFVR Moblilzation/Demobilization		x	$391.50	**$0.00**
25.	Well Repair				
	A1. Additional Copies of Report		each x	$50.00	**$0.00**
	B1. Repair 2x2 monitoring well pad		each x	$50.00	**$0.00**
	C1. Repair 4x4 monitoring well pad		each x	$88.00	**$0.00**
	D1. Replace well vault		each x	$118.00	**$0.00**
	F1. Replace well cover bolts		each x	$2.60	**$0.00**
	G. Replace locking well cap & lock		each x	$15.00	**$0.00**
	H1. Replace/Repair stick-up each		each x	$134.00	**$0.00**
	I1. Convert flush-mount to stick-up		each x	$150.00	**$0.00**
	J1. Convert stick-up to flush-mount		each x	$130.00	**$0.00**
	K1. Replace missing/illegible well ID plate		each x	$12.00	**$0.00**
	Report/Project Management			(SUBTOTAL)	
	Project Coordination		each x		**$0.00**
		12%	x	**$10,144.40**	**$1,217.33**
25.	**Total**				**$11,361.73**

DHEC 3664 (12/20/05)

*** The appropriate Mobilization cost can be added to this cost**

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-1	5/20/03	43	33- 43	298.85	35.70	263.15
	5/11/09				19.35	279.50
	9/8/11				36.7	262.15
	1/6/12				34.63	264.22
	3/27/12				26.21	272.64
	4/4/12			554.13	25.8	528.33
	7/18/12				31.0	523.13
MW-2	5/11/09	43	28-43	298.98	17.25	281.73
	7/7/11				25.85	273.13
	8/22/11				31.82	267.16
	9/8/11				33.1	265.88
	1/6/12				31.91	267.07
	3/27/12				23.25	275.73
	4/4/12			554.18	23.65	530.53
	7/18/12				27.52	526.66
MW-3	5/11/09	45	30-45	298.36	19.2	279.16
	9/8/11				36.28	262.08
	1/6/12				35.45	262.91
	3/27/12				31.74	266.62
	4/4/12			553.62	28.89	524.73
	7/18/12				30.1	523.52
MW-3D	9/8/11	60	55-60	298.51	25.19*	273.32
	1/5/12				35.12	263.39
	3/27/12				28.9	269.61
	4/4/12			553.74	29.48	524.26
	7/18/12				30.5	523.24

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-4	5/11/09	49	34-49	299.29	20.16	279.13
	9/8/11				37.2	262.09
	1/6/12				35.79	263.50
	3/27/12				27.85	271.44
	4/4/12			554.56	27.9	526.66
	7/18/12				32.13	522.43
MW-5	8/9/10	25	15 - 25	296.16	17.35	278.81
	7/7/11				23.1	273.06
	8/22/11				24.92	271.24
	9/8/11				24.91	271.25
	1/6/12				24.36	271.80
	3/27/12				20.22	275.94
	4/4/12			551.42	19.79	531.63
	7/18/12				23.46	527.96
MW-6	8/23/11	35	25-35	298.58	Dry	Dry
	8/30/11				30.3	268.28
	9/8/11				28.45	270.13
	1/6/12				24.43	274.15
	3/27/12				19.21	279.37
	4/4/12			553.79	18.05	535.74
	7/18/12				20.9	532.89
MW-7	8/25/11	35	24-34	298.18	Dry	Dry
	8/30/11				Dry	Dry
	9/8/11				33.4	264.78
	1/6/12				32.39	265.79
	3/27/12				29.95	268.23
	4/4/12			553.42	28.02	525.40
	7/18/12				25.16	528.26

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-8	8/29/11	35	25-35	297.5	Dry	Dry
	9/8/11				Dry	Dry
	1/6/12				32.85	264.65
	3/27/12				27.32	270.18
	4/4/12			552.76	27.05	525.71
	7/18/12				28.91	523.85
MW-8D	9/8/11	60	55-60	297.35	25.35*	272.00
	1/5/12				34.24	263.11
	3/27/12				26.12	271.23
	4/4/12			552.53	26.07	526.46
	7/18/12				31.3	521.23
MW-9	8/26/11	35	24-34	299.74	Dry	Dry
	8/30/11				Dry	Dry
	9/8/11				33.93	265.81
	1/6/12				33.6	266.14
	3/27/12				30.65	269.09
	4/4/12			554.89	29.12	525.77
	7/18/12				29.89	525.00
MW-10	8/27/11	35	25-35	299.54	Dry	Dry
	9/8/11				34.4	265.14
	1/6/12				34.5	265.04
	3/27/12				24.57	274.97
	4/4/12			554.79	24.79	530.00
	7/18/12				28.71	526.08
MW-11	1/6/12	35	19.5-34.5	293.42	32.0	261.42
	3/27/12				21.4	272.07
	4/4/12			548.76	21.5	527.26
	7/18/12				26.4	522.36

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-12	1/6/12	35	20-35	290.46	26.05	264.41
	3/27/12				17.69	272.77
	4/4/12			545.68	21.5	524.18
	7/18/12				23.18	522.50
MW-13	1/6/12	35	20-35	289.98	27.9	262.08
	3/27/12				17.45	272.53
	4/4/12			545.2	16.9	528.30
	7/18/12				22.32	522.88
MW-14	1/6/12	35	20-35	291.24	30.72	260.52
	3/27/12				19.34	271.90
	4/4/12			546.48	20.76	525.72
	7/18/12				22.52	523.96
MW-15	4/4/12	32	17-32	545.77	25.45	520.32
	7/18/12				23.52	522.25
MW-15D	4/4/12	60	55-60	545.89	18.11	527.78
	7/18/12				23.86	522.03
MW-16	4/4/12	32	17-32	546.47	19.02	527.45
	7/18/12				24.2	522.27
MW-16D	4/4/12	60	55-60	546.59	19.7	526.89
	7/18/12				24.47	522.12
MW-17	4/4/12	35	20-35	554.33	20.39	533.94
	7/18/12				21.53	532.80
MW-17D	4/4/12	60	55-60	554.3	27.54	526.76
	7/18/12				31.37	522.93
MW-18	4/4/12	32	17-32	546.56	19.65	526.91
	7/18/12				23.9	522.66
MW-18D	4/4/12	60	55-60	546.27	19.17	527.10
	7/18/12				23.17	523.10
MW-19	4/4/12	32	17.5-27.5	544.53	18.5	526.03
	7/18/12				22.53	522.00

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	GROUND WATER ELEVATION
MW-19D	4/4/12	60	55-60	544.11	16.2	527.91
	7/18/12				22.41	521.70
MW-20	7/18/12	35	25-35	556.55	27.02	529.53
MW-20D	7/18/12	60	55-60	556.66	33.31	523.35
MW-21	7/18/12	35	25-35	555.73	24.72	531.01
MW-21D	7/18/12	60	55-60	555.75	32.83	522.92
MW-22	7/18/12	35	25-35	555.29	31.34	523.95
MW-22D	7/18/12	60	55-60	554.98	32.23	522.75
TW-14	4/4/12	34	24-34	547.23	20.76	526.47
TW-15	4/4/12	29	19-29	546.42	19.54	526.88
TW-16	4/4/12	29	19-29	545.42	16.4	529.02
TW-17	4/4/12	26	16-26	544.74	15.29	529.45
TW-18	4/4/12	29	19-29	544.3	11.47	532.83
TW-19	4/4/12	28	18-28	545.64	14.15	531.49
TW-20	4/4/12	29	19-29	546.56	18.62	527.94
TW-21	4/4/12	25	15-25	543.4	9.32	534.08
TW-22	4/4/12	25	15-25	544.8	12.7	532.10
TW-23	4/4/12	25	15-25	545.68	14.84	530.84

Notes:

1) Top pf casing elevations surveyed by Terracon personnel
2) * - Maybe altered by drilling fluid and poor development

D H E C
PROMOTE PROTECT PROSPER

W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment

MR MARK HUNTER
SC DEPARTMENT OF TRANSPORTATION
PO BOX 191
COLUMBIA SC 29202-0191

MAR 1 1 2015

Re: **Groundwater Sampling Directive**
Eddie's Pit Stop, Route 2 Highway 601 North, Pageland, SC
UST Permit #18871; CA #49943
Release Reported August 29, 2002
Site Specific Work Plan Received March 4, 2015
Chesterfield County

Dear Mr. Hunter:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Terracon Consultants, Inc. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 2.0, and must be conducted in compliance with all applicable regulations. A copy of the Agency's QAPP Rev. 2.0, for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #49943** has been approved for the amount shown on the enclosed cost agreement form for a comprehensive groundwater sampling event. Groundwater samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, 8 Oxygenates and EDB. Since it has been greater than 12 months since the last sampling event, all wells will need to be purged prior to sampling. Sampling and analyses should be conducted in accordance with Appendix E of the QAPP, Rev. 2.0, and to include duplicate samples, field and trip blanks.

The Monitoring Report and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina 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.

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

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

Please note; if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below 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 #18871** and **CA #49943**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0607 or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

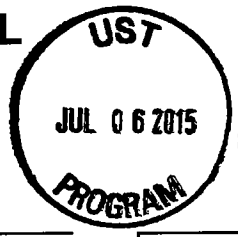
cc: Terracon Consultants, Inc., 521 Clemson Rd., Columbia, SC 29229-4307 (w/ enc)
Technical File (w/ enc)

Approved Cost Agreement 49943

Facility: 18871 EDDIES PIT STOP
THRASHAM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	2.0000	423.00	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	32.0000	60.00	1,920.00
		C1	WATER SUPPLY	2.0000	22.00	44.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	2.0000	28.00	56.00
		H1	FIELD BLANK	4.0000	24.60	98.40
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	42.0000	122.00	5,124.00
		F1	EDB BY 8011	40.0000	45.20	1,808.00
17 DISPOSAL						
		AA	WASTEWATER	400.0000	0.56	224.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	10,270.40	1,232.45
				Total Amount		11,502.85

LETTER OF TRANSMITTAL



Terracon
521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ms. Ashleigh Thrash
SCDHEC
Bureau of Land and Waste Management
UST Program
2600 Bull St.
Columbia, SC 29202

DATE 07/01/15	JOB NO. 73098106
RE: Eddie's Pit Stop, Pageland SC	
UST Permit # 18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	NO.	DESCRIPTION
1	07/01/15		Report of Ground Water Assessment (CD)

THESE ARE TRANSMITTED as checked below:

☐ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ FOR BIDS DUE _____ 20___

☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections

☐ Resubmit ___ copies for approval
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints

REMARKS:

Attached is the Tier II report and the SUPERB invoice, sent to DHEC.

COPY TO: Mr. Tim Hunter/SCDOT

SIGNED: **Katie Layfield**

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ms. Ashleigh Thrash
SCDHEC
Bureau of Land and Waste Management
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Attached is the Tier II report and the SUPERB invoice, sent to DHEC.

COPY TO: Mr. Tim Hunter/SCDOT

SIGNED: **Katie Layfield**

If enclosures are not as noted, kindly notify us at once.

Report of Ground Water Assessment

Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina

UST PERMIT # 18871

June 30, 2015
Terracon Project No. 73098106

Prepared for:
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202

Prepared by:
Terracon Consultants, Inc.
Columbia, South Carolina

Offices Nationwide Established in 1965
Employee-Owned terracon.com
Terracon
Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

Terracon

June 30, 2015

Ms. Ashleigh Thrash
South Carolina Department of Health
and Environmental Control
Bureau of Land and Waste Management
UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: ***Report of Ground Water Assessment***
Eddies Pitt Stop
Route 2, US Highway 601 North, Pageland, South Carolina
UST Permit # 18871; C.A. 49943
Terracon Project No. 73098106

Dear Ms. Thrash:

On behalf of the South Carolina Department of Transportation, **Terracon Consultants, Inc.** is pleased to submit this Tier II Assessment Report for the Eddies Pitt Stop in Pageland, South Carolina. This report summarizes the results of the assessment activities and our conclusions and recommendations.

If you have any questions regarding the contents of this report, or if you need additional information, please contact us at (803) 741-9000.

Sincerely,

Terracon Consultants, Inc.
UST Contractor Certification No. 246

Katie Layfield
Environmental Scientist

P. Michael Hudgins, P.G.
Senior Hydrogeologist
S.C. Registration No. 1137

P. MICHAEL HUDGINS REGISTERED NO. 1137 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Attachment

cc: Tim Hunter/SCDOT

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Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

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B Ground Water Sampling Logs and Laboratory Analytical Report
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K SCDHEC QAPP Contractors Checklist

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) has completed a comprehensive ground water sampling at the Eddies Pitt Stop site located in Pageland, South Carolina. The purpose of this assessment was to determine the current ground water quality conditions from a reported underground storage tank (UST) release at the site. The work was performed in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Cost Agreement #49943 dated March 11, 2015, Annual Contractor Quality Assurance Plan (ACQAP) approved April 2, 2013, and Site Specific Work Plan (SSWP) received by SCDHEC from Terracon on February 2, 2015. This report includes a description of the activities performed during this assessment, along with our current findings, conclusions and recommendations.

1.1 Site Description

The site is bound to the east by US Highway 601 and the Carolina Country Convenience Store (UST 02261); to the south by agricultural land; to the west by the remainder of the former Eddie's Pit Stop property; and to the north by residential land. A topographic map showing the site location is presented as Figure 1.

The site is composed of a vacant gas station. The property is owned by South Carolina Department of Transportation (SCDOT).

Carolina Country Convenience Store (UST Permit # 02261) currently operates an UST system located approximately 150 feet east from the former Eddie's UST basin across Highway 601. According to the SCDHEC database, the site has a reported release dated September 30, 2008 and a confirmed clean up date of November 6, 2008.

A water well survey was conducted as part of this assessment. Two irrigation or water supply wells (PW-1 and PW-2) were observed within a ½ mile radius of the site. PW-1 is an unused well on the subject site. PW-2 is used as an irrigation supply well located offsite on the adjacent residential property (Casper residence). The site and surrounding area is serviced drinking water from a municipal water supply system.

1.2 Site History

The site has been defined as the area of the former USTs, which is now located within the SCDOT right-of-way of Highway 601. The right-of-way and US Highway 601 were expanded in 2001 as part of road improvements in Chesterfield County. Eddies Pitt Stop convenience store/gas station previously operated one 750 gallon and one 2,000 gallon gasoline UST. These USTs were abandoned by removal in August 2002, and a release was reported with the UST closure in

August 2002. Directives to conduct a Tier I and Tier II Assessments were issued by the SCDHEC in 2009 and 2012, respectively, which included installation of 22 shallow wells and 10 deep monitoring wells. A summary of the well construction and water level data is presented on Table 1. A site map with well locations and utilities is shown as Figure 2. Details of these assessments can be found in the previous assessment reports. The results of the previous assessments indicated:

- Ground water was encountered at depths generally ranging from 17 to 20 feet and is observed to flow radially toward the south at a calculated rate of 13 ft/yr;
- Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 14 shallow wells located in the vicinity of the USTs;
- Benzene and/or naphthalene were detected at concentrations above RBSLs in seven deep wells;
- 1,2-dibromoethane (EDB) was detected in two samples collected from and unused water supply well (PW-1) at concentrations above the laboratory reporting limits. 1,2-dichloroethane (1,2-DCA) was detected in the active irrigation supply well located on the adjacent property;
- The horizontal extent of the contaminants in the upper portion of the shallow aquifer downgradient from the former UST system was relatively defined by the monitoring well network;
- Elevated hydrocarbon levels were detected above RBSLs in four background monitoring wells. These detections may be associated with a potential separate release from the upgradient Carolina Convenience UST location (Permit #02261).
- Terracon recommended Aggressive Fluid Vapor Recover (AFVR) at this site for monitoring wells MW-1, MW-2 and MW-12.

On March 2015, based on the Tier II Assessment results, SCDHEC issued cost agreement # 49943 for a comprehensive ground water sampling. This report includes a summary of the field methods utilized along with the results of ground water elevation measurements, field and laboratory ground water analytical results, and our conclusions and recommendations.

1.3 Site Geology and Hydrogeology

The site is located within the Carolina Slate Belt terrain of the Lower Piedmont physiographic province. The Carolina Slate Belt province consists of weathered low grade metamorphic rocks

consisting of mixed gneiss; intermediate and felsic volcanic rocks; tuffaceous epiclastic rocks; and mafic and felsic volcanic rocks.

Surficial soils at the site included sands, silty/clayey sands, sandy silt, and saprolite. A thick sequence of low permeability clayey and silty sand was encountered beneath the site to depths ranging from approximately 15 to 30 feet across the site. Below this unit, partially weathered rock as hard clayey silt (saprolite) was encountered at depths ranging from 60 to 65 feet across the site, where air rotary was required for drilling, to the investigated depth of 98 feet.

Ground water occurs within the shallow aquifer under unconfined conditions. The depth to ground water in the study area ranged from approximately 8 to 20 feet during this assessment.

2.0 GROUND WATER SAMPLING

Water levels were recorded on June 8, 2015, and ground water samples were collected on June 8-12, 2015. Water levels were measured in all existing site monitoring wells using an electric oil/water level interface probe. Monitoring well MW-13 could not be gauged as access to the well was blocked by an abandoned car. A summary of the water level data is presented on Table 2. Potentiometric surface maps of the upper and lower portions of the shallow aquifer are included as Figures 5 and 5A, respectively.

Specific conductance, pH, and temperature were measured with a field calibrated YSI 1030 meter, and dissolved oxygen was recorded using an YSI 55 meter. The field parameters were recorded on Groundwater Sampling Logs. The Ground Water Sampling logs and equipment calibration logs are included in Appendix B.

Ground water samples were collected from 30 of the 31 monitoring wells. The monitoring wells were purged prior to sampling, and grab samples were collected from them using disposable polyethylene bailers dedicated to each well. Shallow wells were purged by bailer, and the deep wells and the unused water supply well WS-1 were purged with a submersible pump. Purge water generated during sampling was disposed of by Regulatory Solutions, Inc., Gaston, South Carolina. A copy of the disposal manifest is included in Appendix G.

Dissolved oxygen, specific conductance, pH, and temperature measurements were measured using calibrated field meters and recorded on Ground Water Sampling Logs, included in Appendix B. Samples were placed in an iced cooler and delivered along with chain of custody documentation to Xenco Laboratories in Norcross, Georgia for analysis of the following parameters:

Analysis	Method
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) Methyl-tert-butyl-ether (MTBE) Naphthalene 1,2-dichloroethane (1,2-DCA) 8 Oxygenates	SW-846 8260B
1,2-dibromoethane (EDB)	SW-846 8011

Ground water analytical results are included in Table 3 (Petroleum Compounds) and Table 5 (Petroleum-Related Compounds). A copy of the analytical report is included in Appendix B.

This assessment also included collection and analysis of eight quality assurance (QA) samples as two duplicate samples, five field blanks and a trip blank in accordance with the approved QAPP. No discrepancies were noted with these QA sample analyses. Ground Water Analytical Data (Petroleum Compounds and Petroleum Additives) is summarized in Table 3. A copy of the laboratory analytical report is included in Appendix B.

3.0 ASSESSMENT RESULTS

Ground water occurs within the upper portion of the shallow aquifer under unconfined conditions at depths ranging from approximately 12 to 18 feet in the lower portion. Inspection of Figure 5 indicates the ground water flow direction in the upper portion of the shallow aquifer is in a radial pattern generally toward the southwest. Figure 5A indicates that the ground water flow direction in the lower portion of the shallow aquifer is generally toward the west.

Approximately 0.02 ft. of free product was measures in monitoring well MW-2. Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 7 of the 20 shallow monitoring wells. The highest petroleum hydrocarbon concentrations were detected in monitoring wells MW-1, MW-5 and MW-12, located in the area of Eddie's Pit Stop. Elevated hydrocarbon levels were detected above RBSLs in MW-10, MW-20, MW-21 and MW-22, the elevated levels in these monitoring wells may be associated with a separate release from the Carolina Convenience location (Permit #02261).

1,2 DCA was detected in ground water in seven wells at concentrations above RBSLs ranging from 22.3 ug/l to 173 ug/l. EDB was detected above the RBSL in six wells at concentrations ranging from 0.32 to 5.58 ug/l. Petroleum oxygenates t-butanol (TBA), and tert-amyl alcohol (TAA) were detected in two monitoring wells above Action Levels (Als) established by the SCDHEC.

The extent of impact in the lower portion of the shallow aquifer is not defined. Benzene and/or naphthalene was detected at concentrations above RBSLs in four of the ten deep wells (MW-3D, MW-15D, MW-16D and MW-18D) located north, northeast and southwest of the former USTs.

1,2 DCA was detected at a concentration below RBSLs in the sample collected from the water supply well PW-1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the results of our site assessment activities, the ground water beneath the site and adjacent properties have been impacted by free-phase and dissolved-phase hydrocarbons at concentrations above allowable levels. Free product was detected for the first time in any of the wells on-site, in monitoring well MW-2.

The horizontal extent of the contaminants in the upper portion of the shallow aquifer downgradient from the former UST system has been defined by the monitoring well network. Petroleum hydrocarbon compounds were detected above RBSLs for benzene, MtBE,1,2-DCA, and naphthalene in ground water samples collected from shallow wells located at the source area, northeast (MW-8) and southwest (MW-12) of the USTs. Further, the concentrations in four background wells exceeded RBSLs, suggesting a potential release from the offsite UST system (Carolina Convenience store, UST Permit #02261).

The vertical extent of impact in the lower portion of the shallow aquifer has not been defined. Benzene and/or naphthalene were detected at concentrations above RBSLs in four deep wells MW-3D, MW-15D, MW-16D and MW-18D located north, northeast and southwest of the former USTs. Contaminants have the potential to migrate faster through the fractures or other potential preferential pathways of the weathered rock material. Additional investigation is necessary to define the vertical extent of the hydrocarbon plume.

1,2 DCA was detected in the sample collected from an unused water supply well (PW-1) at concentrations above the laboratory reporting limits. These detections may represent the leading edge of the dissolved plume extending toward this well in the deep portion of the shallow aquifer. Periodic monitoring and sampling of the supply wells is recommended. Irrigation well PW-2 should be reactivated or otherwise made available for sample collection.

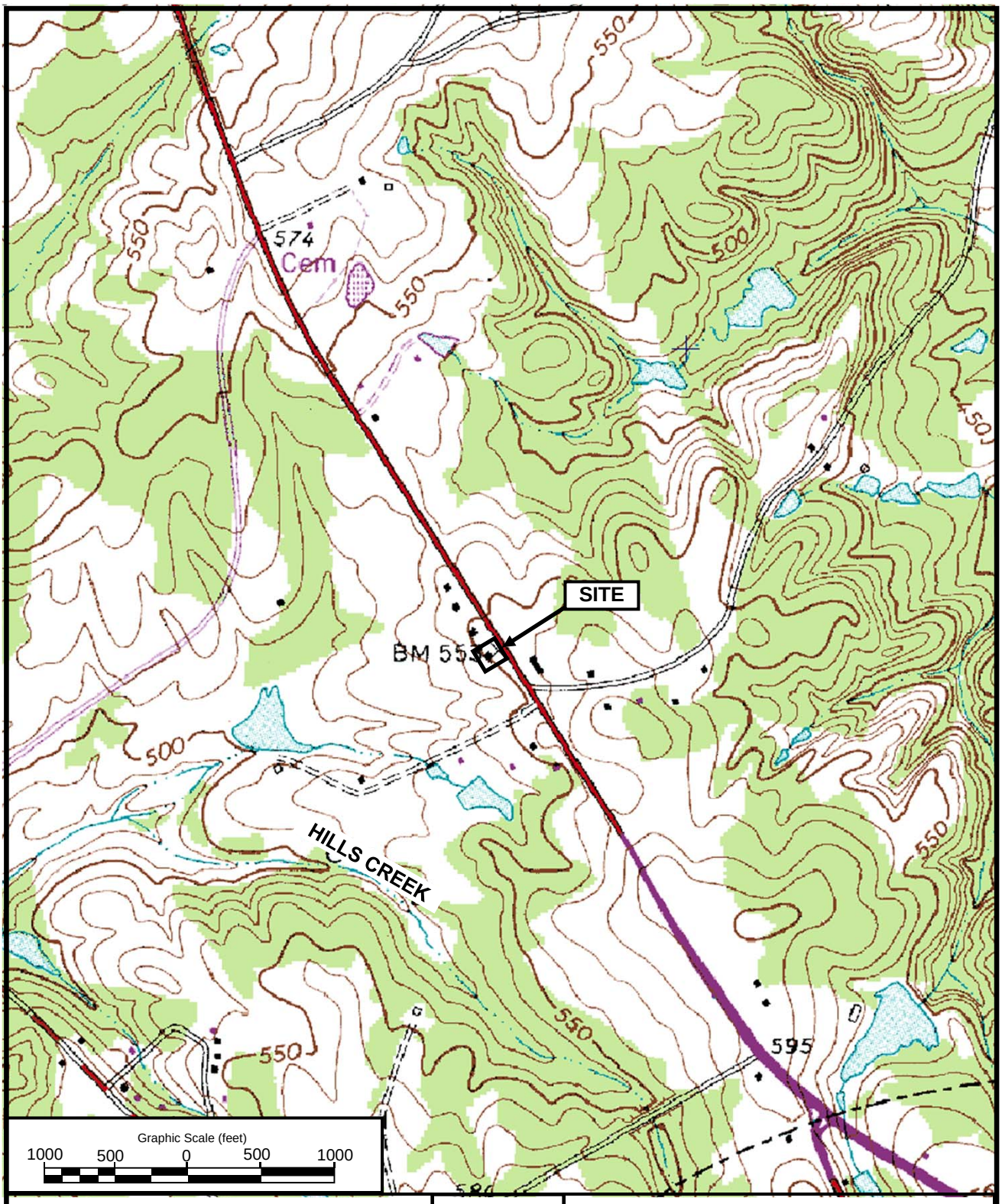
Efforts should be made with the property owner to provide access to monitoring well MW-13, as this is a critical downgradient sampling point used to define the extent of impact downgradient from the hydrocarbon plume.

Terracon also recommends Aggressive Fluid Vapor Recovery (AFVR) at this site. AFVR will remove free product from monitoring MW-2 and reduce high dissolved concentrations observed

in monitoring wells MW-1, MW-5 and MW-12, to limit further contaminant migration from the source area. Once the free product and high dissolved concentrations have been reduced, intrinsic corrective action may be an effective remedial method at this site. Terracon also recommends initiation of quarterly ground water sampling events to assess the potential for intrinsic biodegradation of petroleum compounds at the site.

FIGURES

Figure 1 – Site Location Map
Figure 2 – Site Map with Utilities
Figure 4 –COC Concentration Map of the Upper Portion of the Shallow Aquifer
Figure 4A – COC Concentration map of the Lower Portion of the Shallow Aquifer
Figure 5 – Potentiometric Surface Map of the Upper Portion of the Shallow Aquifer
Figure – 5A Potentiometric Surface Map of the Lower Portion of the Shallow Aquifer



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

DATE: 1993
SCALE: 1 INCH = 1000 FEET

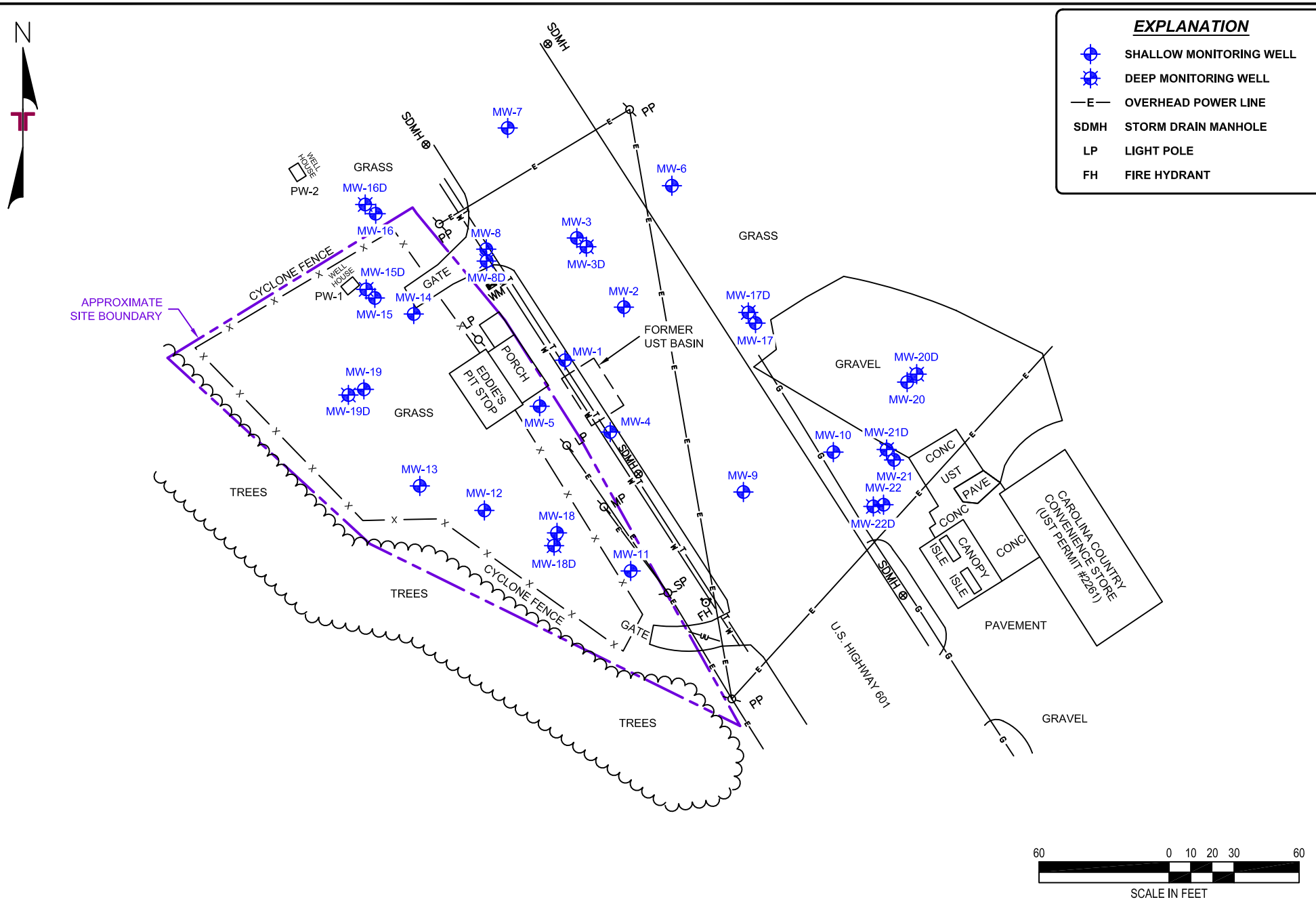
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	JUNE 2015

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Consulting Engineers and Scientists
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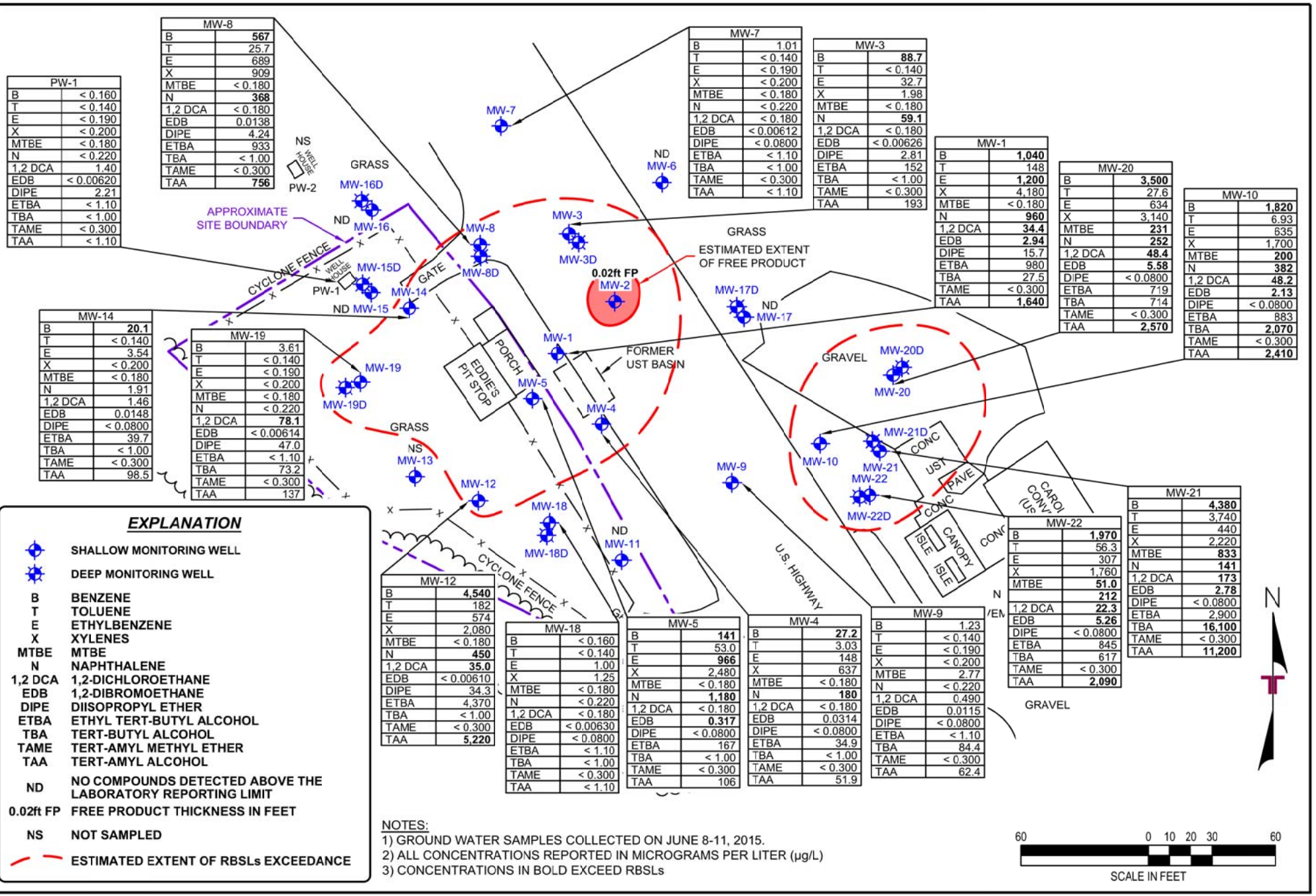
SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 2



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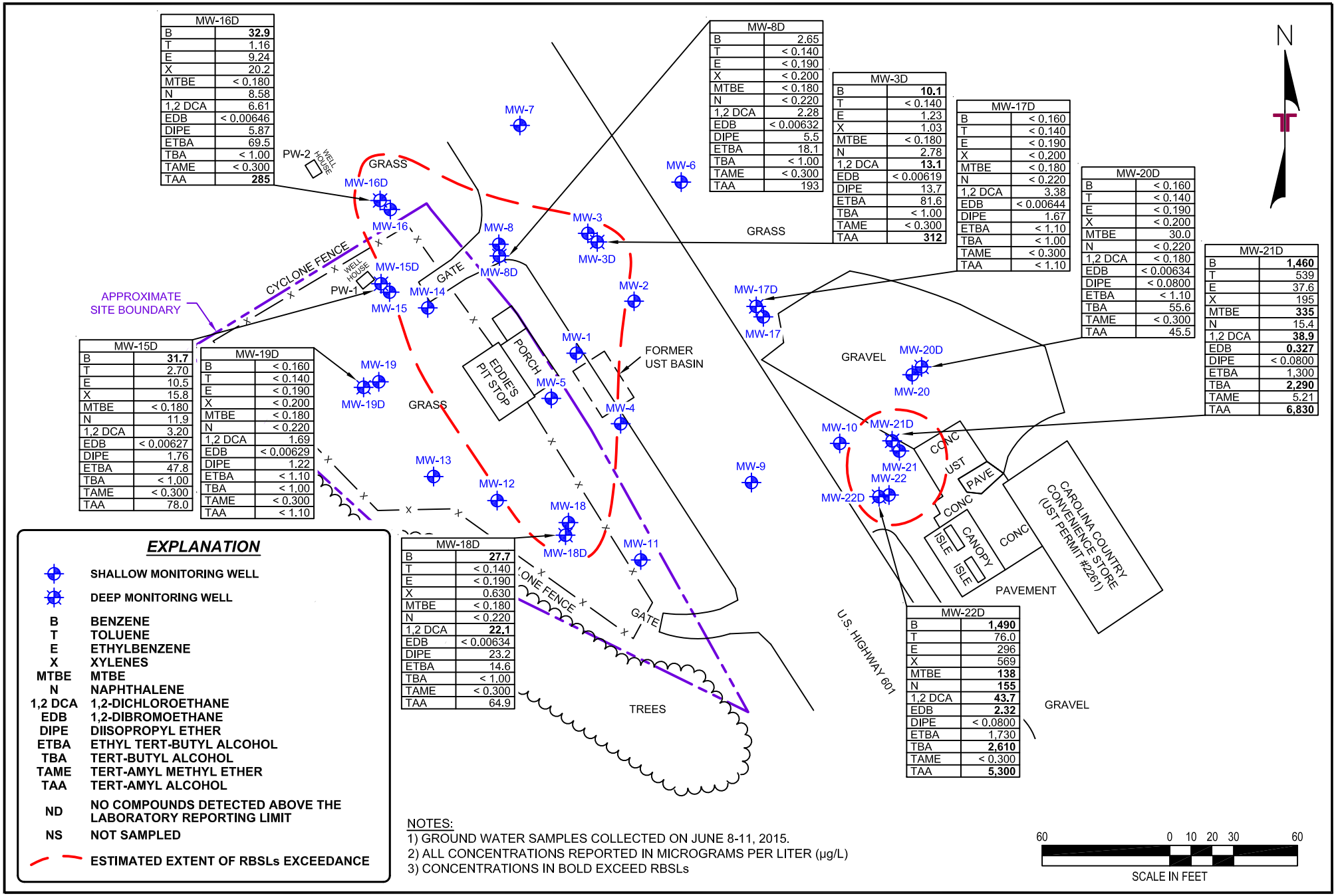
COC CONCENTRATION MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 4



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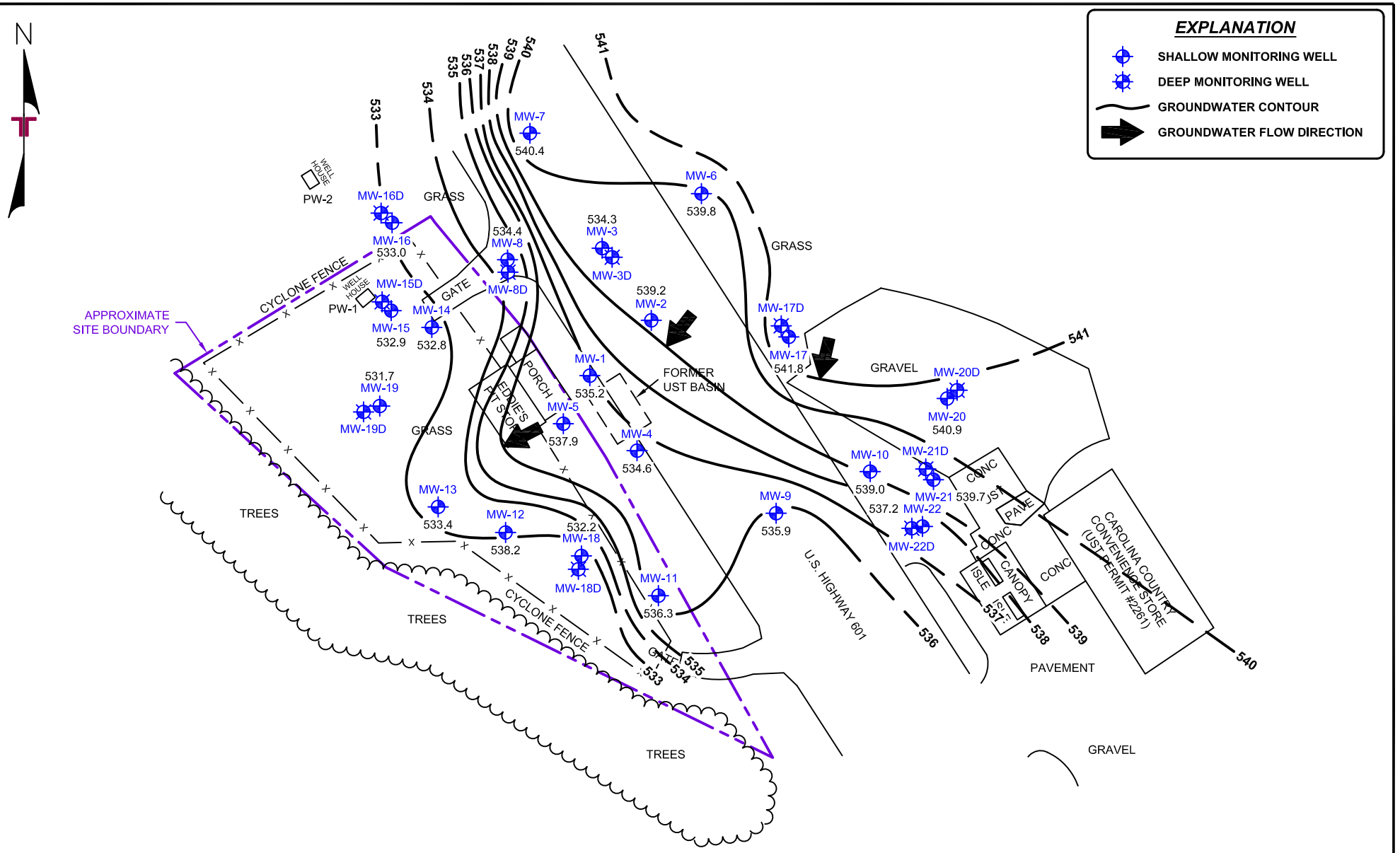
COC CONCENTRATION MAP OF THE LOWER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 4A



NOTE:
1) GROUNDWATER ELEVATIONS WERE RECORDED ON JUNE 8, 2015.
2) MONITORING WELLS MW-1, MW-14, AND MW-22 WERE SCREENED WITHIN THE LOWER PORTION OF THE SHALLOW AQUIFER. THEREFORE THE GROUNDWATER ELEVATIONS WERE NOT USED DURING CONTOURING.
3) GROUNDWATER ELEVATIONS AT MONITORING WELLS MW-15 AND MW-16 APPEAR ANOMALOUS AND WERE NOT USED IN CONTOURING.

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
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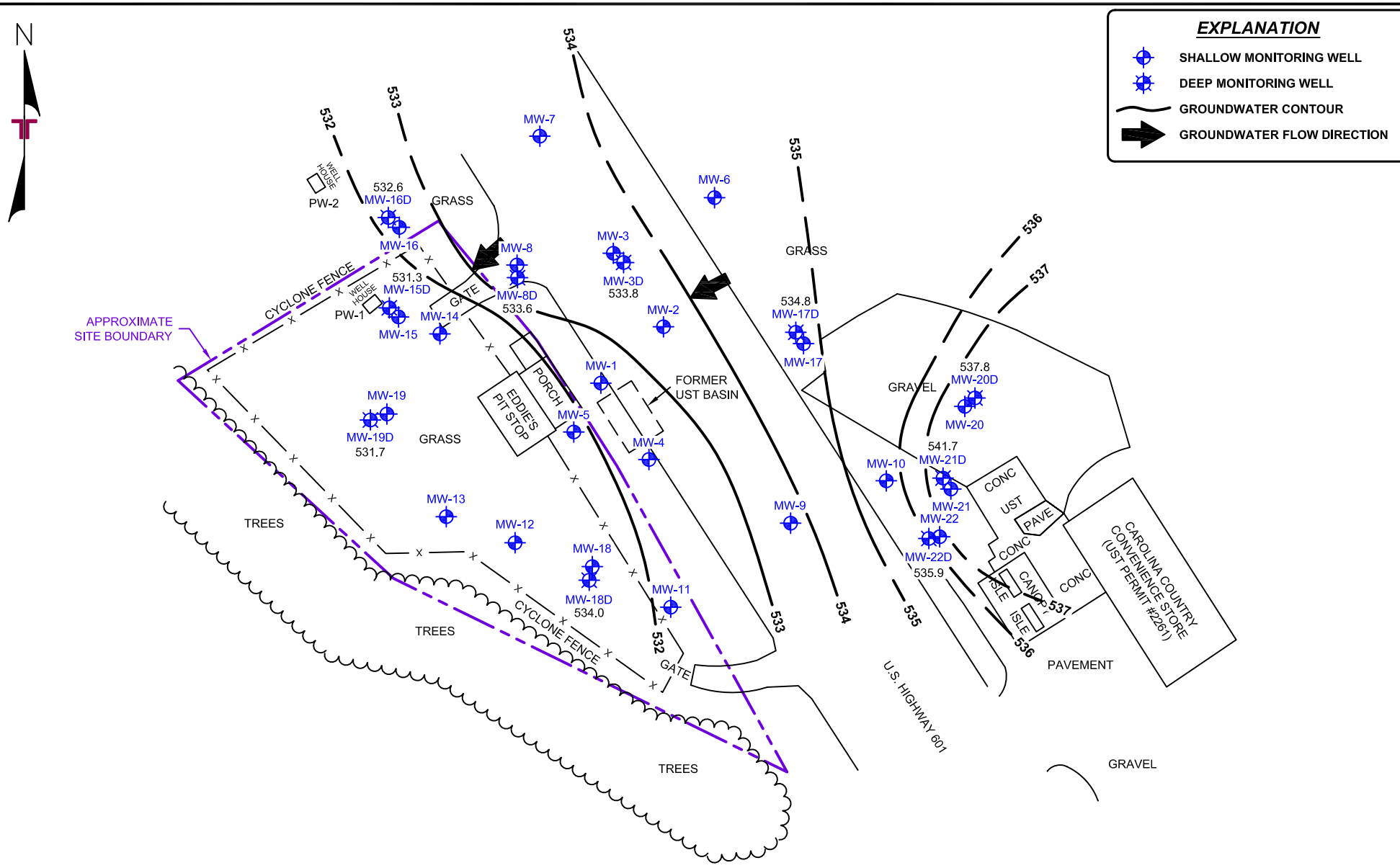
POTENTIOMETRIC SURFACE MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 5



NOTE:
1) GROUNDWATER ELEVATIONS WERE RECORDED ON JUNE 8, 2015.
2) GROUNDWATER ELEVATION AT DEEP MONITORING WELL MW-12D WAS NOT USED IN CONTOURING.

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	JUNE 2015

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POTENTIOMETRIC SURFACE MAP OF THE LOWER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 5A

TABLES

Table 2 – Ground Water Elevation Data
Table 3 – Ground Water Analytical Data, Petroleum Compound
Ground Water Analytical Data, Petroleum Additives

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-1	5/20/03	43	33- 43	298.85	35.70	--	263.15
	5/11/09				19.35	--	279.50
	9/8/11				36.70	--	262.15
	1/6/12				34.63	--	264.22
	3/27/12				26.21	--	272.64
	4/4/12			554.13	25.80	--	528.33
	7/18/12				31.00	--	523.13
	6/8/15				18.94	--	535.19
MW-2	5/11/09	43	28-43	298.98	17.25	--	281.73
	7/7/11				25.85	--	273.13
	8/22/11				31.82	--	267.16
	9/8/11				33.10	--	265.88
	1/6/12				31.91	--	267.07
	3/27/12				23.25	--	275.73
	4/4/12			554.18	23.65	--	530.53
	7/18/12				27.52	--	526.66
	6/8/15				14.97	0.02	539.23
MW-3	5/11/09	45	30-45	298.36	19.20	--	279.16
	9/8/11				36.28	--	262.08
	1/6/12				35.45	--	262.91
	3/27/12				31.74	--	266.62
	4/4/12			553.62	28.89	--	524.73
	7/18/12				30.10	--	523.52
	6/8/15				19.29	--	534.33

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-3D	9/8/11	60	55-60	298.51	25.19*	--	273.32
	1/5/12				35.12	--	263.39
	3/27/12				28.90	--	269.61
	4/4/12			553.74	29.48	--	524.26
	7/18/12				30.50	--	523.24
	6/8/15				19.98	--	533.76
MW-4	5/11/09	49	34-49	299.29	20.16	--	279.13
	9/8/11				37.20	--	262.09
	1/6/12				35.79	--	263.50
	3/27/12				27.85	--	271.44
	4/4/12			554.56	27.90	--	526.66
	7/18/12				32.13	--	522.43
	6/8/15				19.95	--	534.61
MW-5	8/9/10	25	15 - 25	296.16	17.35	--	278.81
	7/7/11				23.10	--	273.06
	8/22/11				24.92	--	271.24
	9/8/11				24.91	--	271.25
	1/6/12				24.36	--	271.80
	3/27/12				20.22	--	275.94
	4/4/12			551.42	19.79	--	531.63
	7/18/12				23.46	--	527.96
	6/8/15				13.53	--	537.89
MW-6	8/23/11	35	25-35	298.58	Dry	Dry	Dry
	8/30/11				30.30	--	268.28
	9/8/11				28.45	--	270.13
	1/6/12				24.43	--	274.15
	3/27/12				19.21	--	279.37
	4/4/12			553.79	18.05	--	535.74
	7/18/12				20.90	--	532.89
	6/8/15				13.95	--	539.84

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
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Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-7	8/25/11	35	24-34	298.18	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.40	--	264.78
	1/6/12				32.39	--	265.79
	3/27/12				29.95	--	268.23
	4/4/12			553.42	28.02	--	525.40
	7/18/12				25.16	--	528.26
	6/8/15				13.06	--	540.36
MW-8	8/29/11	35	25-35	297.5	Dry	Dry	Dry
	9/8/11				Dry	Dry	Dry
	1/6/12				32.85	--	264.65
	3/27/12				27.32	--	270.18
	4/4/12			552.76	27.05	--	525.71
	7/18/12				28.91	--	523.85
	6/8/15				18.33	--	534.43
MW-8D	9/8/11	60	55-60	297.35	25.35*	--	272.00
	1/5/12				34.24	--	263.11
	3/27/12				26.12	--	271.23
	4/4/12			552.53	26.07	--	526.46
	7/18/12				31.30	--	521.23
	6/8/15				18.93	--	533.60
MW-9	8/26/11	35	24-34	299.74	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.93	--	265.81
	1/6/12				33.60	--	266.14
	3/27/12				30.65	--	269.09
	4/4/12			554.89	29.12	--	525.77
	7/18/12				29.89	--	525.00
	6/8/15				18.96	--	535.93

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-10	8/27/11	35	25-35	299.54	Dry	Dry	Dry
	9/8/11				34.40	--	265.14
	1/6/12				34.50	--	265.04
	3/27/12				24.57	--	274.97
	4/4/12			554.79	24.79	--	530.00
	7/18/12				28.71	--	526.08
	6/8/15				15.82	--	538.97
MW-11	1/6/12	35	19.5-34.5	293.42	32.00	--	261.42
	3/27/12				21.35	--	272.07
	4/4/12			548.76	21.50	--	527.26
	7/18/12				26.40	--	522.36
	6/8/15				12.49	--	536.27
MW-12	1/6/12	35	20-35	290.46	26.05	--	264.41
	3/27/12				17.69	--	272.77
	4/4/12			545.68	21.50	--	524.18
	7/18/12				23.18	--	522.50
	6/8/15				7.47	--	538.21
MW-13	1/6/12	35	20-35	289.98	27.90	--	262.08
	3/27/12				17.45	--	272.53
	4/4/12			545.2	16.90	--	528.30
	7/18/12				22.32	--	522.88
	6/8/15				11.81	--	533.39
MW-14	1/6/12	35	20-35	291.24	30.72	--	260.52
	3/27/12				19.34	--	271.90
	4/4/12			546.48	20.76	--	525.72
	7/18/12				22.52	--	523.96
	6/8/15				13.71	--	532.77
MW-15	4/4/12	32	17-32	545.77	25.45	--	520.32
	7/18/12				23.52	--	522.25
	6/8/15				12.88	--	532.89
MW-15D	4/4/12	60	55-60	545.89	18.11	--	527.78
	7/18/12				23.86	--	522.03
	6/8/15				14.60	--	531.29

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-16	4/4/12	32	17-32	546.47	19.02	--	527.45
	7/18/12				24.20	--	522.27
	6/8/15				13.50	--	532.97
MW-16D	4/4/12	60	55-60	546.59	19.70	--	526.89
	7/18/12				24.47	--	522.12
	6/8/15				13.95	--	532.64
MW-17	4/4/12	35	20-35	554.33	20.39	--	533.94
	7/18/12				21.53	--	532.80
	6/8/15				12.58	--	541.75
MW-17D	4/4/12	60	55-60	554.3	27.54	--	526.76
	7/18/12				31.37	--	522.93
	6/8/15				19.50	--	534.80
MW-18	4/4/12	32	17-32	546.56	19.65	--	526.91
	7/18/12				23.90	--	522.66
	6/8/15				14.38	--	532.18
MW-18D	4/4/12	60	55-60	546.27	19.17	--	527.10
	7/18/12				23.17	--	523.10
	6/8/15				12.26	--	534.01
MW-19	4/4/12	32	17.5-27.5	544.53	18.50	--	526.03
	7/18/12				22.53	--	522.00
	6/8/15				12.88	--	531.65
MW-19D	4/4/12	60	55-60	544.11	16.20	--	527.91
	7/18/12				22.41	--	521.70
	6/8/15				12.41	--	531.70
MW-20	7/18/12	35	25-35	556.55	27.02	--	529.53
	6/8/15				15.63	--	540.92
MW-20D	7/18/12	60	55-60	556.66	33.31	--	523.35
	6/8/15				18.86	--	537.80
MW-21	7/18/12	35	25-35	555.73	24.72	--	531.01
	6/8/15				16.04	--	539.69
MW-21D	7/18/12	60	55-60	555.75	32.83	--	522.92
	6/8/15				14.09	--	541.66
MW-22	7/18/12	35	25-35	555.29	31.34	--	523.95
	6/8/15				18.11	--	537.18
MW-22D	7/18/12	60	55-60	554.98	32.23	--	522.75
	6/8/15				19.10	--	535.88

Notes:
1) Top pf casing elevations surveyed by Terracon personnel
2) * - Maybe altered by drilling fluid and poor development

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-1	5/20/03	43	33- 43	298.85	35.70	--	263.15
	5/11/09				19.35	--	279.50
	9/8/11				36.70	--	262.15
	1/6/12				34.63	--	264.22
	3/27/12				26.21	--	272.64
	4/4/12			554.13	25.80	--	528.33
	7/18/12				31.00	--	523.13
	6/8/15				18.94	--	535.19
MW-2	5/11/09	43	28-43	298.98	17.25	--	281.73
	7/7/11				25.85	--	273.13
	8/22/11				31.82	--	267.16
	9/8/11				33.10	--	265.88
	1/6/12				31.91	--	267.07
	3/27/12				23.25	--	275.73
	4/4/12			554.18	23.65	--	530.53
	7/18/12				27.52	--	526.66
	6/8/15				14.97	0.02	539.23
MW-3	5/11/09	45	30-45	298.36	19.20	--	279.16
	9/8/11				36.28	--	262.08
	1/6/12				35.45	--	262.91
	3/27/12				31.74	--	266.62
	4/4/12			553.62	28.89	--	524.73
	7/18/12				30.10	--	523.52
	6/8/15				19.29	--	534.33

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Eddies' Pit Stop - SCDOT
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UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-3D	9/8/11	60	55-60	298.51	25.19*	--	273.32
	1/5/12				35.12	--	263.39
	3/27/12				28.90	--	269.61
	4/4/12			553.74	29.48	--	524.26
	7/18/12				30.50	--	523.24
	6/8/15				19.98	--	533.76
MW-4	5/11/09	49	34-49	299.29	20.16	--	279.13
	9/8/11				37.20	--	262.09
	1/6/12				35.79	--	263.50
	3/27/12				27.85	--	271.44
	4/4/12			554.56	27.90	--	526.66
	7/18/12				32.13	--	522.43
	6/8/15				19.95	--	534.61
MW-5	8/9/10	25	15 - 25	296.16	17.35	--	278.81
	7/7/11				23.10	--	273.06
	8/22/11				24.92	--	271.24
	9/8/11				24.91	--	271.25
	1/6/12				24.36	--	271.80
	3/27/12				20.22	--	275.94
	4/4/12			551.42	19.79	--	531.63
	7/18/12				23.46	--	527.96
	6/8/15				13.53	--	537.89
MW-6	8/23/11	35	25-35	298.58	Dry	Dry	Dry
	8/30/11				30.30	--	268.28
	9/8/11				28.45	--	270.13
	1/6/12				24.43	--	274.15
	3/27/12				19.21	--	279.37
	4/4/12			553.79	18.05	--	535.74
	7/18/12				20.90	--	532.89
	6/8/15				13.95	--	539.84

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-7	8/25/11	35	24-34	298.18	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.40	--	264.78
	1/6/12				32.39	--	265.79
	3/27/12				29.95	--	268.23
	4/4/12			553.42	28.02	--	525.40
	7/18/12				25.16	--	528.26
	6/8/15				13.06	--	540.36
MW-8	8/29/11	35	25-35	297.5	Dry	Dry	Dry
	9/8/11				Dry	Dry	Dry
	1/6/12				32.85	--	264.65
	3/27/12				27.32	--	270.18
	4/4/12			552.76	27.05	--	525.71
	7/18/12				28.91	--	523.85
	6/8/15				18.33	--	534.43
MW-8D	9/8/11	60	55-60	297.35	25.35*	--	272.00
	1/5/12				34.24	--	263.11
	3/27/12				26.12	--	271.23
	4/4/12			552.53	26.07	--	526.46
	7/18/12				31.30	--	521.23
	6/8/15				18.93	--	533.60
MW-9	8/26/11	35	24-34	299.74	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.93	--	265.81
	1/6/12				33.60	--	266.14
	3/27/12				30.65	--	269.09
	4/4/12			554.89	29.12	--	525.77
	7/18/12				29.89	--	525.00
	6/8/15				18.96	--	535.93

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-10	8/27/11	35	25-35	299.54	Dry	Dry	Dry
	9/8/11				34.40	--	265.14
	1/6/12				34.50	--	265.04
	3/27/12				24.57	--	274.97
	4/4/12			554.79	24.79	--	530.00
	7/18/12				28.71	--	526.08
	6/8/15				15.82	--	538.97
MW-11	1/6/12	35	19.5-34.5	293.42	32.00	--	261.42
	3/27/12				21.35	--	272.07
	4/4/12			548.76	21.50	--	527.26
	7/18/12				26.40	--	522.36
	6/8/15				12.49	--	536.27
MW-12	1/6/12	35	20-35	290.46	26.05	--	264.41
	3/27/12				17.69	--	272.77
	4/4/12			545.68	21.50	--	524.18
	7/18/12				23.18	--	522.50
	6/8/15				7.47	--	538.21
MW-13	1/6/12	35	20-35	289.98	27.90	--	262.08
	3/27/12				17.45	--	272.53
	4/4/12			545.2	16.90	--	528.30
	7/18/12				22.32	--	522.88
	6/8/15				11.81	--	533.39
MW-14	1/6/12	35	20-35	291.24	30.72	--	260.52
	3/27/12				19.34	--	271.90
	4/4/12			546.48	20.76	--	525.72
	7/18/12				22.52	--	523.96
	6/8/15				13.71	--	532.77
MW-15	4/4/12	32	17-32	545.77	25.45	--	520.32
	7/18/12				23.52	--	522.25
	6/8/15				12.88	--	532.89
MW-15D	4/4/12	60	55-60	545.89	18.11	--	527.78
	7/18/12				23.86	--	522.03
	6/8/15				14.60	--	531.29

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-16	4/4/12	32	17-32	546.47	19.02	--	527.45
	7/18/12				24.20	--	522.27
	6/8/15				13.50	--	532.97
MW-16D	4/4/12	60	55-60	546.59	19.70	--	526.89
	7/18/12				24.47	--	522.12
	6/8/15				13.95	--	532.64
MW-17	4/4/12	35	20-35	554.33	20.39	--	533.94
	7/18/12				21.53	--	532.80
	6/8/15				12.58	--	541.75
MW-17D	4/4/12	60	55-60	554.3	27.54	--	526.76
	7/18/12				31.37	--	522.93
	6/8/15				19.50	--	534.80
MW-18	4/4/12	32	17-32	546.56	19.65	--	526.91
	7/18/12				23.90	--	522.66
	6/8/15				14.38	--	532.18
MW-18D	4/4/12	60	55-60	546.27	19.17	--	527.10
	7/18/12				23.17	--	523.10
	6/8/15				12.26	--	534.01
MW-19	4/4/12	32	17.5-27.5	544.53	18.50	--	526.03
	7/18/12				22.53	--	522.00
	6/8/15				12.88	--	531.65
MW-19D	4/4/12	60	55-60	544.11	16.20	--	527.91
	7/18/12				22.41	--	521.70
	6/8/15				12.41	--	531.70
MW-20	7/18/12	35	25-35	556.55	27.02	--	529.53
	6/8/15				15.63	--	540.92
MW-20D	7/18/12	60	55-60	556.66	33.31	--	523.35
	6/8/15				18.86	--	537.80
MW-21	7/18/12	35	25-35	555.73	24.72	--	531.01
	6/8/15				16.04	--	539.69
MW-21D	7/18/12	60	55-60	555.75	32.83	--	522.92
	6/8/15				14.09	--	541.66
MW-22	7/18/12	35	25-35	555.29	31.34	--	523.95
	6/8/15				18.11	--	537.18
MW-22D	7/18/12	60	55-60	554.98	32.23	--	522.75
	6/8/15				19.10	--	535.88

Notes:
1) Top pf casing elevations surveyed by Terracon personnel
2) * - Maybe altered by drilling fluid and poor development

APPENDIX B

Ground Water Sampling Logs and Laboratory Analytical Report

Terracon **WATER/PRODUCT LEVEL MEASUREMENT LOG**

Page_____ of _____

PROJECT NAME Eddie's P.T Stop

PROJECT NO. 73098106

DATE 06/08/15

EQUIPMENT USED Interface Probe

FIELD PERSONNEL David Lesesne

Well ID	Depth to Water	Depth to Product	Product Thickness	Total Depth	Vault	Bolts	Lid	Lock/ Cap	Comments
MW-1	18.94				Y	N	N	N	Bolts Lid Cap Tag
MW-2	14.97	14.95	0.02		Y	Y	Y	N	Lock
MW-3	19.29				Y	Y	Y	N	Lock
MW-3D	19.98				Y	Y	Y	NY	~~Lock~~
MW-4	19.95				Y	Y	Y	N	Cap Lock
MW-5	13.53				Y	Y	Y	N	Lock
MW-6	13.95				Y	Y	Y	Y	
MW-7	13.06				Y	Y	Y	Y	
MW-8	18.33				Y	Y	Y	Y	
MW-8D	18.93				Y	Y	Y	N	Tag Lock
MW-9	18.96				Y	Y	Y	N	Lock
MW-10	15.82				Y	Y	Y	N	Lock
MW-11	12.49				Y	Y	Y	N	Lock
MW-12	7.47				Y	Y	Y	N	Lock
MW-13	11.81				Y	Y	Y	N	Lock
MW-14	13.71				Y	Y	Y	N	Lock
MW-15	12.88				Y	Y	Y	Y	
MW-15D	14.60				Y	Y	Y	Y	
MW-16	13.50				Y	Y	Y	N	Cap
MW-16D	13.95				Y	Y	Y	Y	
MW-17	12.58				Y	Y	Y	Y	Tag
MW-17D	19.50				Y	Y	Y	Y	
MW-18	14.38				Y	Y	Y	Y	
MW-18D	12.26				Y	Y	Y	N	Cap
MW-19	12.88				Y	Y	Y	Y	
MW-20	15.63				N	N	Y	Y	Pad Vault Bolts
MW-20D	18.86				Y	Y	Y	Y	
MW-21	16.04				N	N	Y	N	Vault Bolts Lock
MW-21D	14.09				Y	Y	Y	N	Pad Tag Lock
MW-22	18.11				Y	Y	Y	N	Lock
MW-22D	19.10				Y	Y	Y	N	Lock Pad
MW-19D	12.41				Y	Y	Y	Y	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-01
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1630

Total Well Depth:	43.00	ft. BTOC
Depth to water:	18.94	ft. BTOC
Length of Water Column (LWC):	24.06	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.09	gal.
3 Casing Volumes:	12.27	gal.

Remarks: well dry at 6.5 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.31	5.51	5.58				
Specific Conductivity (umhos/cm)	160.2	166.0	172.4				
Water Temperature ©	22.3	22.4	22.6				
Turbidity	240	290	650				
Dissolved Oxygen (mg/L)	1.22	1.20	2.08				

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Groundwater Sampling Log

Well ID:	MW-02
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1100

Total Well Depth:	43.00	ft. BTOC
Depth to water:	14.97	ft. BTOC
Length of Water Column (LWC):	28.03	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.77	gal.
3 Casing Volumes:	14.30	gal.

Remarks: Product thickness 0.02

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH							
Specific Conductivity (umhos/cm)							
Water Temperature ©							
Turbidity							
Dissolved Oxygen (mg/L)							

Terracon

Groundwater Sampling Log

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Well ID:	MW-03
Date:	
Site Name:	Eddies Pit Stop
Project No.:	73098126 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1200

Total Well Depth:	45.00	ft. BTOC
Depth to water:	19.29	ft. BTOC
Length of Water Column (LWC):	25.71	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.37	gal.
3 Casing Volumes:	13.11	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.77	5.80	5.86	5.94	5.71	5.64	
Specific Conductivity (umhos/cm)	151.8	137.0	151.8	156.3	173.7	179.5	
Water Temperature ©	21.6	21.4	22.1	21.6	22.1	22.3	
Turbidity	120	550	360	900	450	>1100	
Dissolved Oxygen (mg/L)	1.16	1.79	2.05	2.20	2.59	2.67	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-3D
Date:	06/29/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	80°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1130

Total Well Depth:	60.00 ft. BTOC
Depth to water:	19.98 ft. BTOC
Length of Water Column (LWC):	40.02 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	6.80 gal.
3 Casing Volumes:	20.41 gal.
Remarks:	

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	~~4.22~~ 5.86	6.11	5.82	5.79	5.71	5.81	
Specific Conductivity (umhos/cm)	332.3	239.3	196.8	183.9	188.9	170.2	
Water Temperature ©	26.1	22.3	21.7	21.1	21.7	21.4	
Turbidity	220	350	80	29	26	27	
Dissolved Oxygen (mg/L)	2.06	1.49	1.52	1.34	1.30	1.12	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-4
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	72098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1430

Total Well Depth:	49.00 ft. BTOC
Depth to water:	19.95 ft. BTOC
Length of Water Column (LWC):	29.05 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	4.94 gal.
3 Casing Volumes:	14.82 gal.
Remarks:	Duplicate sampled.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.51	5.28	5.39	5.38	5.38		
Specific Conductivity (umhos/cm)	93.2	91.9	90.9	93.8	95.6		
Water Temperature ©	22.5	22.1	22.4	21.8	21.3		
Turbidity	1.3	>1100	600	1000	750		
Dissolved Oxygen (mg/L)	1.13	2.71	2.58	3.19	2.93		

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Groundwater Sampling Log

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Well ID:	MW-05
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1600

Total Well Depth:	25.00	ft. BTOC
Depth to water:	13.53	ft. BTOC
Length of Water Column (LWC):	11.47	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	1.95	gal.
3 Casing Volumes:	5.85	gal.

Remarks: Well dry at 4.0 gallons - Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.03	4.92	4.99				
Specific Conductivity (umhos/cm)	61.7	72.9	67.8				
Water Temperature ©	21.8	19.6	20.3				
Turbidity	0.00	22	75				
Dissolved Oxygen (mg/L)	1.08	1.92	2.49				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-06
Date:	06/08/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1600

Total Well Depth:	35.00	ft. BTOC
Depth to water:	13.95	ft. BTOC
Length of Water Column (LWC):	21.05	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.58	gal.
3 Casing Volumes:	10.74	gal.

Remarks: Well dry at 5.5 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.54	5.11	5.12				
Specific Conductivity (umhos/cm)	164.0	102.0	44.3				
Water Temperature ©	29.6	23.6	22.9				
Turbidity	0.00	220	500				
Dissolved Oxygen (mg/L)	2.33	2.37	3.03				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-07
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	sunny
Air Temperature:	90
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1250

Total Well Depth:	34.00 ft. BTOC
Depth to water:	13.06 ft. BTOC
Length of Water Column (LWC):	20.94 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.56 gal.
3 Casing Volumes:	gal.

Remarks: Well dry @ 8.5 gallons Allow for recovery + Sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.15	5.02	4.99	4.98	4.94		
Specific Conductivity (umhos/cm)	137.5	113.8	106.3	107.2	111.8		
Water Temperature ©	23.4	24.1	21.9	21.7	24.9		
Turbidity	1.8	130	900	850	>1100		
Dissolved Oxygen (mg/L)	0.78	1.00	2.34	2.41	2.31		

Terracon

Groundwater Sampling Log

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Well ID:	MW-08
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~ 73098106
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0730

Total Well Depth:	35.00	ft. BTOC
Depth to water:	18.33	ft. BTOC
Length of Water Column (LWC):	16.67	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	2.83	gal.
3 Casing Volumes:	8.50	gal.

Remarks: well dry at 5.5 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	6.29	6.11	6.28				
Specific Conductivity (umhos/cm)	221.1	202.4	208.9				
Water Temperature ©	20.3	20.0	20.4				
Turbidity	2.2	7.8	100				
Dissolved Oxygen (mg/L)	1.59	2.19	2.80				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-8D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1500

Total Well Depth:	60.00	ft. BTOC
Depth to water:	18.93	ft. BTOC
Length of Water Column (LWC):	41.07	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.98	gal.
3 Casing Volumes:	20.95	gal.

Remarks: Well dry at 9.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.83	5.78					
Specific Conductivity (umhos/cm)	199.1	145.1					
Water Temperature ©	24.0	22.1					
Turbidity	27	850					
Dissolved Oxygen (mg/L)	3.54	3.44					

Terracon

Groundwater Sampling Log

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Well ID:	MW-09
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1045

Total Well Depth:	34.00	ft. BTOC
Depth to water:	18.96	ft. BTOC
Length of Water Column (LWC):	15.04	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	2.56	gal.
3 Casing Volumes:	7.67	gal.

Remarks: Well dry at 6.25 gallons Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial		Well Dry				
Time							
pH	4.71	4.83	4.75	5.0			
Specific Conductivity (umhos/cm)	73.6	64.4	63.3	72.7			
Water Temperature ©	24.1	22.1	21.8	22.6			
Turbidity	0.0	85	95	65			
Dissolved Oxygen (mg/L)	0.8	1.76	1.40	2.68			

Terracon

Groundwater Sampling Log

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Well ID:	MW-10
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1200

Total Well Depth:	35.00 ft. BTOC
Depth to water:	15.82 ft. BTOC
Length of Water Column (LWC):	19.18 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.26 gal.
3 Casing Volumes:	9.78 gal.

Remarks: Well dry at 6.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	4.90	5.02	5.20				
Specific Conductivity (umhos/cm)	85.8	88.0	95.5				
Water Temperature ©	22.8	22.1	21.9				
Turbidity	2.5	85	160				
Dissolved Oxygen (mg/L)	2.00	2.02	2.15				

Terracon

Groundwater Sampling Log

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Well ID:	MW-11
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73094104 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	

Total Well Depth:	34.50	ft. BTOC
Depth to water:	12.49	ft. BTOC
Length of Water Column (LWC):	22.01	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.74	gal.
3 Casing Volumes:	11.23	gal.

Remarks: Well dry at 11.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.79	5.25	4.98	5.00			
Specific Conductivity (umhos/cm)	200.2	122.1	143.4	156.9			
Water Temperature ©	22.3	20.4	20.0	21.6			
Turbidity	0.00	50	100	240			
Dissolved Oxygen (mg/L)	2.07	1.65	2.10	2.26			

Terracon

Groundwater Sampling Log

Well ID:	MW-12
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	~~73098106~~ ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1300

Total Well Depth:	35.00	ft. BTOC
Depth to water:	7.47	ft. BTOC
Length of Water Column (LWC):	27.53	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.68	gal.
3 Casing Volumes:	14.04	gal.

Remarks: Well dry at 11.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.76	5.75	5.73	5.71			
Specific Conductivity (umhos/cm)	245.3	202.8	220.5	220.5			
Water Temperature ©	22.5	21.3	21.2	20.8			
Turbidity	0.00	40	50	80			
Dissolved Oxygen (mg/L)	0.94	1.14	1.29	1.68			

Terracon

Groundwater Sampling Log

Well ID:	MW-13
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	85°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1215

Total Well Depth:	35.00	ft. BTOC
Depth to water:	11.81	ft. BTOC
Length of Water Column (LWC):	23.19	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.94	gal.
3 Casing Volumes:	11.83	gal.

Remarks: Well is not accessible. Wrecked car over l.i.d.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH							
Specific Conductivity (umhos/cm)							
Water Temperature ©							
Turbidity							
Dissolved Oxygen (mg/L)							

Terracon

Groundwater Sampling Log

Well ID:	MW-14
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	85°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1015

Total Well Depth:	35.00	ft. BTOC
Depth to water:	13.71	ft. BTOC
Length of Water Column (LWC):	21.29	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.62	gal.
3 Casing Volumes:	10.86	gal.

Remarks: Well dry at 11.75 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.48	5.54	5.55	5.64	5.80		
Specific Conductivity (umhos/cm)	130.1	100.4	104.0	125.5	125.6		
Water Temperature ©	22.0	21.1	19.5	19.4	20.2		
Turbidity	10	70	260	210	330		
Dissolved Oxygen (mg/L)	1.53	1.67	1.83	1.96	2.03		

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-15
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~ 73098106
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	92°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	

Total Well Depth:	32.00	ft. BTOC
Depth to water:	12.88	ft. BTOC
Length of Water Column (LWC):	19.12	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.25	gal.
3 Casing Volumes:	9.75	gal.

Remarks: Well dry at 7.75 gallons. Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.64	5.62	5.71	5.93			
Specific Conductivity (umhos/cm)	111.4	96.1	101.0	108.0			
Water Temperature ©	22.6	19.8	19.9	21.4			
Turbidity	28	90	85	120			
Dissolved Oxygen (mg/L)	1.27	1.83	1.80	2.58			

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-15D
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	

Total Well Depth:	60.00	ft. BTOC
Depth to water:	14.60	ft. BTOC
Length of Water Column (LWC):	45.40	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	7.72	gal.
3 Casing Volumes:	23.15	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	6.09	5.88	5.63	5.47	5.89	5.86	
Specific Conductivity (umhos/cm)	116.3	121.5	120.0	120.8	126.4	122.4	
Water Temperature ©	21.2	21.6	20.1	19.6	20.4	19.7	
Turbidity	>1100	38	3.0	1.00	0.00	0.80	
Dissolved Oxygen (mg/L)	1.20	1.54	1.57	1.18	1.56	1.67	

Terracon

Groundwater Sampling Log

Well ID:	MW-16
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0930

Total Well Depth:	32.00 ft. BTOC
Depth to water:	13.50 ft. BTOC
Length of Water Column (LWC):	18.50 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.15 gal.
3 Casing Volumes:	9.44 gal.

Remarks: Well dry at 7.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.26	5.11	5.08	5.03			
Specific Conductivity (umhos/cm)	156.5	106.7	100.9	101.2			
Water Temperature ©	24.9	23.1	22.1	22.3			
Turbidity	0.00	150	230	320			
Dissolved Oxygen (mg/L)	4.24	4.23	4.58	4.87			

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-16D
Date:	
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1400

Total Well Depth:	60.00	ft. BTOC
Depth to water:	13.95	ft. BTOC
Length of Water Column (LWC):	46.05	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	7.83	gal.
3 Casing Volumes:	23.49	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	6.40	6.05	5.85	5.66	5.64	5.80	
Specific Conductivity (umhos/cm)	277.9	206.2	169.0	167.6	157.1	156.6	
Water Temperature ©	22.2	20.5	19.9	19.8	19.5	19.8	
Turbidity	750	>1100	55	11	6.9	2.7	
Dissolved Oxygen (mg/L)	0.94	1.07	1.28	1.03	1.07	0.99	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-17
Date:	
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~ 73098106
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1645

Total Well Depth:	35.00	ft. BTOC
Depth to water:	12.58	ft. BTOC
Length of Water Column (LWC):	22.42	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.81	gal.
3 Casing Volumes:	11.43	gal.

Remarks: Well dry at 10.6 gallons. Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	4.64	4.44	4.45	4.61			
Specific Conductivity (umhos/cm)	78.3	61.6	58.6	58.0			
Water Temperature ©	26.2	23.0	22.5	22.1			
Turbidity	10	190	370	400			
Dissolved Oxygen (mg/L)	1.02	1.01	1.41	2.17			

Terracon

Groundwater Sampling Log

Well ID:	MW-17D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Overcast
Air Temperature:	75°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	0945

Total Well Depth:	60.00	ft. BTOC
Depth to water:	19.50	ft. BTOC
Length of Water Column (LWC):	40.50	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.89	gal.
3 Casing Volumes:	20.66	gal.
Remarks:		

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.39	5.25	5.27	5.28	5.11		
Specific Conductivity (umhos/cm)	76.5	69.0	67.5	67.1	65.7		
Water Temperature ©	21.1	20.4	20.4	20.3	20.3		
Turbidity	650	24	0.85	0.00	0.00		
Dissolved Oxygen (mg/L)	1.26	1.21	1.51	1.02	1.12		

Terracon

Groundwater Sampling Log

Well ID:	MW-18
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1000

Total Well Depth:	32.00 ft. BTOC
Depth to water:	14.38 ft. BTOC
Length of Water Column (LWC):	17.62 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.00 gal.
3 Casing Volumes:	8.99 gal.
Remarks:	

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.07	4.92	5.12	5.29	5.32		
Specific Conductivity (umhos/cm)	78.6	60.4	76.9	74.5	75.5		
Water Temperature ©	21.3	19.6	19.4	19.6	20.6		
Turbidity	0.00	7.4	14	15	11		
Dissolved Oxygen (mg/L)	1.17	1.51	1.44	1.75	1.88		

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-18D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73048106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Overcast
Air Temperature:	80°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1045

Total Well Depth:	60.00	ft. BTOC
Depth to water:	12.26	ft. BTOC
Length of Water Column (LWC):	47.74	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	8.12	gal.
3 Casing Volumes:	24.35	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.63	5.62	5.59	5.55	5.58	5.59	
Specific Conductivity (umhos/cm)	162.2	141.2	135.0	136.6	139.2	142.2	
Water Temperature ©	20.0	19.1	19.4	19.4	19.5	19.5	
Turbidity	>1100	650	340	400	45	19	
Dissolved Oxygen (mg/L)	1.21	2.61	1.41	1.36	1.15	1.14	

Terracon

Groundwater Sampling Log

Well ID:	MW-19
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	85°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1115

Total Well Depth:	27.50 ft. BTOC
Depth to water:	12.88 ft. BTOC
Length of Water Column (LWC):	14.62 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	2.49 gal.
3 Casing Volumes:	7.46 gal.

Remarks: Well dry at 7.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.65	5.51	5.50	5.63			
Specific Conductivity (umhos/cm)	124.5	128.6	145.1	149.9			
Water Temperature ©	20.1	18.5	18.6	19.1			
Turbidity	24	37	50	200			
Dissolved Oxygen (mg/L)	0.98	1.44	1.90	1.95			

Terracon

Groundwater Sampling Log

Well ID:	MW-19D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	72095106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1200

Total Well Depth:	60.00	ft. BTOC
Depth to water:	12.41	ft. BTOC
Length of Water Column (LWC):	47.59	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	8.09	gal.
3 Casing Volumes:	24.27	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.76	5.71	5.70	5.82	5.70	5.70	
Specific Conductivity (umhos/cm)	81.1	74.8	75.0	78.6	85.8	83.3	
Water Temperature ©	19.3	19.2	19.3	20.1	20.2	19.8	
Turbidity	260	>1000	130	120	90	75	
Dissolved Oxygen (mg/L)	1.52	1.87	1.86	1.68	1.59	1.29	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-20
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0815

Total Well Depth:	35.00	ft. BTOC
Depth to water:	15.63	ft. BTOC
Length of Water Column (LWC):	19.37	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.29	gal.
3 Casing Volumes:	9.88	gal.

Remarks: Well dry at 4.50 gallons. Allow for recovery and sample. Duplicate sampled.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.48	5.00	5.02				
Specific Conductivity (umhos/cm)	77.4	65.9	72.2				
Water Temperature ©	20.9	20.7	20.9				
Turbidity	2.1	240	240				
Dissolved Oxygen (mg/L)	1.13	1.68	2.26				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-20D
Date:	6-10-15
Site Name:	Eddies Pit Stop
Project No.:	73028106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1545

Total Well Depth:	60.00	ft. BTOC
Depth to water:	18.86	ft. BTOC
Length of Water Column (LWC):	41.14	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.99	gal.
3 Casing Volumes:	20.98	gal.

Remarks: Well dry at 5.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.58	5.41					
Specific Conductivity (umhos/cm)	87.2	80.2					
Water Temperature ©	26.4	26.1					
Turbidity	>1100	32					
Dissolved Oxygen (mg/L)	1.10	3.66					

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-21
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0900

Total Well Depth:	35.00	ft. BTOC
Depth to water:	16.04	ft. BTOC
Length of Water Column (LWC):	18.96	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.22	gal.
3 Casing Volumes:	9.67	gal.

Remarks: Well dry at ~~2~~2.75 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.58	5.67					
Specific Conductivity (umhos/cm)	149.8	240.1					
Water Temperature ©	21.3	21.7					
Turbidity	85	110					
Dissolved Oxygen (mg/L)	1.99	2.11					

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-21D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1615

Total Well Depth:	60.00	ft. BTOC
Depth to water:	14.09	ft. BTOC
Length of Water Column (LWC):	45.91	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	7.80	gal.
3 Casing Volumes:	23.41	gal.

Remarks: Well dry at 5.50 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	12.08	12.33					
Specific Conductivity (umhos/cm)	1326	1403					
Water Temperature ©	28.2	24.4					
Turbidity	0.00	8.3					
Dissolved Oxygen (mg/L)	1.02	2.03					

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-22
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0930

Total Well Depth:	35.00 ft. BTOC
Depth to water:	18.11 ft. BTOC
Length of Water Column (LWC):	16.89 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	2.87 gal.
3 Casing Volumes:	8.61 gal.
Remarks:	Well dry at 6.25 gallons. Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.67	5.29	5.12				
Specific Conductivity (umhos/cm)	83.3	70.3	68.5				
Water Temperature ©	21.1	21.7	20.9				
Turbidity	11	13	75				
Dissolved Oxygen (mg/L)	1.44	1.77	1.82				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-22D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1645

Total Well Depth:	60.00	ft. BTOC
Depth to water:	19.10	ft. BTOC
Length of Water Column (LWC):	40.90	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.95	gal.
3 Casing Volumes:	20.86	gal.

Remarks: Well dry at 12.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	9.38	7.52	6.69				
Specific Conductivity (umhos/cm)	205.9	169.9	133.2				
Water Temperature ©	28.4	23.3	23.3				
Turbidity	0.00	34	700				
Dissolved Oxygen (mg/L)	0.98	1.15	0.85				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	PW-01
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1445

Total Well Depth:	____ ft. BTOC
Depth to water:	____ ft. BTOC
Length of Water Column (LWC):	____ ft.
Casing Diameter:	____ in.
1 Casing Volume = LWC x ____ =	____ gal.
3 Casing Volumes:	____ gal.
Remarks:	

Field Analyses

Volume Purged (gal.)	Initial	1420	1425	1430	1435	1440	1445
Time							
pH	5.69	5.69	5.81	5.92	5.99	6.00	6.04
Specific Conductivity (umhos/cm)	215.9	191.7	187.2	188.7	189.6	188.0	186.4
Water Temperature ©	23.2	20.6	20.8	20.5	20.4	20.3	20.1
Turbidity	90	17	22	23	27	28	32
Dissolved Oxygen (mg/L)	1.80	1.73	1.52	1.57	1.41	1.47	1.49

Terracon

Groundwater Sampling Log

Well ID:	PW-02
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73093106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	
Air Temperature:	
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	

Total Well Depth:	ft. BTOC
Depth to water:	ft. BTOC
Length of Water Column (LWC):	ft.
Casing Diameter:	in.
1 Casing Volume = LWC x ____ =	gal.
3 Casing Volumes:	gal.
Remarks:	PW-02 is not accessible.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH							
Specific Conductivity (umhos/cm)							
Water Temperature ©							
Turbidity							
Dissolved Oxygen (mg/L)							

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's P.t Stop

Date: 06/08/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)			Time: 1500	Time:	Time: 1700
	4/7/2010	Initial	7.00 / 4.00 / 10.00	/ /	/ 7.00 /
	1413 µs/cm	Post	/ /	/ /	/ /
	Calibration Successful (Y) / N		(Y) N	Y / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 656'	7.61 mg/L	mg/L	7.59 mg/L
Turdidity LaMotte (Serial No.4018-0703)	(0.0 ntu) / 10.0 ntu	Initial	0.00		0.00
		Post	0.00		
	Clibration Successful (Y) / N				

Comments:

Technician: David Lesesne

Signature: DW Lesesne

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's P.t Stop

Date: 06/09/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
			Time: 0830	Time: 1400	Time: 1715
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)	4/7/2010	Initial	4.00 / 7.00 / 10.00	3.84 / 6.94 / 10.04	/ 6.93 /
	1413 µs/cm	Post	/ /	3.83 / 7.03 / 10.35	/ 7.00 /
	Calibration Successful: (Y) / N		(Y) / N	(Y) / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation:	8.0 mg/L	6.96 mg/L	8.55 mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	0.00
		Post	0.00	0.00	0.00
	Clibration Successful: (Y) / N				

Comments: _____

Technician: David Lescesne

Signature: _____

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddies Pit Stop

Date: 06/10/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
			Time: 0800	Time: 1200	Time: 1715
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)	4/7/2010	Initial	3.83 / 7.00 / 10.38	/ 7.01 /	/ 7.04 /
	1413 µs/cm	Post	3.80 / 7.08 / 10.44	/ 7.00 /	/ 7.00 /
	Calibration Successful: Y / N		(Y) / N	(Y) / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 6560'	10.02 mg/L	8.04 mg/L	7.60 mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	0.00
		Post	0.00	0.00	0.00
	Clibration Successful: Y / N		Y	Y	Y

Comments:

Technician: David Loosme

Signature: DW Loosme

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's Pit Stop

Date: 06/11/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)			Time: 0815	Time: 1200	Time: 1700
	4/7/2010	Initial	3.98 / 7.04 / 10.27	/ 6.98 /	/ 7.01 /
	1413 µs/cm	Post	3.93 / 7.02 / 10.35	/ 6.99 /	/ 7.00 /
	Calibration Successful: Y / N		(Y) / N	(Y) / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 656'	10.21 mg/L	8.71 mg/L	8.76 mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	0.00
		Post	0.00	0.00	0.00
	Clibration Successful: Y / N		Y	Y	Y

Comments:

Technician: David Lesesne

Signature: DW Lesesne

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's Pit Stop

Date: 06/12/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)			Time: 0630	Time: 1000	Time:
	4/7/2010	Initial	3.90 / 7.07 / 10.42	/ /	/ /
	1413 µs/cm	Post	4.02 / 7.00 / 10.21	/ /	/ /
	Calibration Successful: Y / N		(Y) / N	Y / N	Y / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 656'	9.75 mg/L	8.22 mg/L	mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	
		Post	0.00	0.00	
	Clibration Successful: Y / N		Y	Y	

Comments:

Technician: David Lescure

Signature:

Analytical Report 509580

for

TERRACON Co.

Project Manager: Regan Norris

Eddie's Pit Stop

73098106

22-JUN-15

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

22-JUN-15

Project Manager: **Regan Norris**
TERRACON Co.
521 CLEMSON RD
Columbia, SC 29229

Reference: XENCO Report No(s): **509580**
Eddie's Pit Stop
Project Address:

Regan Norris:

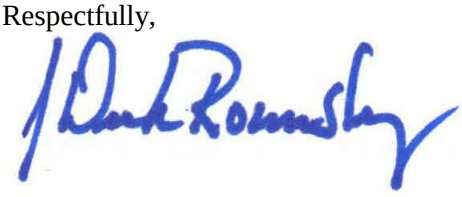
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 509580. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 509580 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



J. Derek Rounsley
Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
18871/MW-05	W	06-11-15 16:00		509580-001
18871/MW-01	W	06-11-15 16:30		509580-002
18871/MW-08	W	06-12-15 07:30		509580-003
18871/MW-20	W	06-12-15 08:15		509580-004
18871/MW-20 Duplicate	W	06-12-15 08:15		509580-005
18871/MW-21	W	06-12-15 09:00		509580-006
18871/MW-22	W	06-12-15 09:30		509580-007
18871/MW-10	W	06-12-15 10:00		509580-008
18871/Field Blank	W	06-12-15 10:00		509580-009
18871/MW-20D	W	06-10-15 15:45		509580-010
18871/MW-21D	W	06-10-15 16:15		509580-011
18871/MW-22D	W	06-10-15 16:45		509580-012
18871/MW-16	W	06-11-15 09:30		509580-013
18871/MW-14	W	06-11-15 10:15		509580-014
18871/MW-19	W	06-11-15 11:15		509580-015
18871/MW-12	W	06-11-15 13:00		509580-016
18871/Field Blank	W	06-11-15 13:30		509580-017
18871/MW-04	W	06-11-15 14:30		509580-018
18871/MW-04 DUP	W	06-11-15 14:30		509580-019
18871/PW-01	W	06-09-15 14:45		509580-020
18871/Field Blank	W	06-09-15 16:15		509580-021
18871/MW-15D	W	06-09-15 16:45		509580-022
18871/MW-15	W	06-09-15 17:00		509580-023
18871/MW-17D	W	06-10-15 09:45		509580-024
18871/Field Blank	W	06-10-15 10:30		509580-025
18871/MW-18D	W	06-10-15 10:45		509580-026
18871/MW-19D	W	06-10-15 12:00		509580-027
18871/MW-16D	W	06-10-15 14:00		509580-028
18871/MW-08D	W	06-10-15 15:00		509580-029
18871/MW-06	W	06-08-15 16:00		509580-030
18871/MW-17	W	06-08-15 16:45		509580-031
18871/Field Blank	W	06-08-15 17:00		509580-032
18871/MW-18	W	06-09-15 10:00		509580-034
18871/MW-09	W	06-09-15 10:45		509580-035
18871/MW-3D	W	06-09-15 11:30		509580-036
18871/MW-03	W	06-09-15 12:00		509580-037
18871/MW-07	W	06-09-15 12:50		509580-038
TRIP BLANK	W	06-08-15 00:00		509580-039
18871/MW-11	W	06-09-15 09:15		509580-040

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-970687 BTEX & Oxygenates by SW-846 8260B
SW8260LL5_ATL
Batch 970687,
Lab Sample ID 509580-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. tert-Butyl formate recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 509580-001, -002, -003, -004, -005, -006, -007, -008, -011, -012, -015, -016, -019.
The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene, tert-Butyl formate is within laboratory Control Limits, therefore the data was accepted.

SW8260LL5_ATL
Batch 970687, tert-Butyl formate Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.
Samples in the analytical batch are: 509580-001, -002, -003, -004, -005, -006, -007, -008, -011, -012, -015, -016, -019

Batch: LBA-970698 BTEX & Oxygenates by SW-846 8260B
Lab Sample ID 509580-023 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). tert-Butyl formate recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 509580-022, -023, -024, -026, -027, -028, -029, -030, -031, -034, -035, -036, -037, -038, -039, -040.
The Laboratory Control Sample for tert-Butyl formate is within laboratory Control Limits, therefore the data was accepted.

CASE NARRATIVE

Client Name: TERRACON Co.
Project Name: Eddie's Pit Stop

Project ID: *73098106*
Work Order Number(s): *509580*

Report Date: *22-JUN-15*
Date Received: *06/13/2015*

Batch: LBA-970728 BTEX & Oxygenates by SW-846 8260B
Lab Sample ID 509580-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes, o-Xylene, tert-Butyl formate recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 509580-002, -003, -004, -005, -006, -007, -008, -010, -012, -013, -014, -016, -018, -020.
The Laboratory Control Sample for Benzene, m,p-Xylenes, o-Xylene, tert-Butyl formate is within laboratory Control Limits, therefore the data was accepted.

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-05** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-001 Date Collected: 06.11.15 16.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.317**	0.0200	0.00600	ug/L	06.15.15 20.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	60-140	06.15.15 20.00	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**141**	1.00	0.160	ug/L	06.19.15 12.59		1
Toluene	108-88-3	**53.0**	1.00	0.140	ug/L	06.19.15 12.59		1
Ethylbenzene	100-41-4	**966**	50.0	9.50	ug/L	06.21.15 15.44	DX	50
o-Xylene	95-47-6	**768**	50.0	10.0	ug/L	06.21.15 15.44	DX	50
m,p-Xylenes	179601-23-1	**1710**	100	25.5	ug/L	06.21.15 15.44	DX	50
Xylenes, Total	1330-20-7	**2480**	50.0	10.0	ug/L	06.21.15 15.44		50
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 12.59	U	1
Naphthalene	91-20-3	**1180**	50.0	11.0	ug/L	06.21.15 15.44	D	50
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.19.15 12.59	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 12.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 12.59	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 12.59	U	1
Ethyl tert-butyl alcohol	590-36-3	**167**	5.00	1.10	ug/L	06.19.15 12.59		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 12.59	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 12.59	U	1
tert-Amyl alcohol	75-85-4	**106**	5.00	1.10	ug/L	06.19.15 12.59		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 12.59	UXF	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.19.15 12.59	
4-Bromofluorobenzene	460-00-4	89	%	30-186	06.19.15 12.59	
Toluene-D8	2037-26-5	98	%	70-130	06.19.15 12.59	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-01** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-002 Date Collected: 06.11.15 16.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.94**	0.415	0.124	ug/L	06.16.15 09.16	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	60-140	06.15.15 20.48	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1040**	25.0	4.00	ug/L	06.21.15 17.56	D	25
Toluene	108-88-3	**148**	1.00	0.140	ug/L	06.19.15 13.25		1
Ethylbenzene	100-41-4	**1200**	25.0	4.75	ug/L	06.21.15 17.56	D	25
o-Xylene	95-47-6	**2320**	25.0	5.00	ug/L	06.21.15 17.56	D	25
m,p-Xylenes	179601-23-1	**1860**	50.0	12.8	ug/L	06.21.15 17.56	D	25
Xylenes, Total	1330-20-7	**4180**	25.0	5.00	ug/L	06.21.15 17.56		25
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 13.25	U	1
Naphthalene	91-20-3	**960**	25.0	5.50	ug/L	06.21.15 17.56	D	25
1,2-Dichloroethane	107-06-2	**34.4**	1.00	0.180	ug/L	06.19.15 13.25		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 13.25	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 13.25	U	1
Diisopropyl ether	108-20-3	**15.7**	1.00	0.0800	ug/L	06.19.15 13.25		1
Ethyl tert-butyl alcohol	590-36-3	**980**	125	27.5	ug/L	06.21.15 17.56	D	25
tert-Butyl alcohol	75-65-0	**27.5**	5.00	1.00	ug/L	06.19.15 13.25		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 13.25	U	1
tert-Amyl alcohol	75-85-4	**1640**	125	27.5	ug/L	06.21.15 17.56	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 13.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	93	%	53-159	06.19.15 13.25	
4-Bromofluorobenzene	460-00-4	98	%	30-186	06.19.15 13.25	
Toluene-D8	2037-26-5	96	%	70-130	06.19.15 13.25	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-08** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-003 Date Collected: 06.12.15 07.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0138**	0.0209	0.00626	ug/L	06.15.15 21.13	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	60-140	06.15.15 21.13	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**567**	10.0	1.60	ug/L	06.21.15 18.24	D	10
Toluene	108-88-3	**25.7**	1.00	0.140	ug/L	06.19.15 13.51		1
Ethylbenzene	100-41-4	**689**	10.0	1.90	ug/L	06.21.15 18.24	D	10
o-Xylene	95-47-6	**348**	10.0	2.00	ug/L	06.21.15 18.24	D	10
m,p-Xylenes	179601-23-1	**561**	20.0	5.10	ug/L	06.21.15 18.24	D	10
Xylenes, Total	1330-20-7	**909**	10.0	2.00	ug/L	06.21.15 18.24		10
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 13.51	U	1
Naphthalene	91-20-3	**368**	10.0	2.20	ug/L	06.21.15 18.24	D	10
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.19.15 13.51	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 13.51	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 13.51	U	1
Diisopropyl ether	108-20-3	**4.24**	1.00	0.0800	ug/L	06.19.15 13.51		1
Ethyl tert-butyl alcohol	590-36-3	**933**	5.00	1.10	ug/L	06.19.15 13.51		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 13.51	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 13.51	U	1
tert-Amyl alcohol	75-85-4	**756**	5.00	1.10	ug/L	06.19.15 13.51		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 13.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	93	%	53-159	06.19.15 13.51	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.19.15 13.51	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 13.51	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-20** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-004 Date Collected: 06.12.15 08.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**5.58**	1.05	0.316	ug/L	06.16.15 09.41	D	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.15.15 22.01	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3500**	50.0	8.00	ug/L	06.21.15 19.17	D	50
Toluene	108-88-3	**27.6**	1.00	0.140	ug/L	06.19.15 14.16		1
Ethylbenzene	100-41-4	**634**	10.0	1.90	ug/L	06.21.15 18.50	D	10
o-Xylene	95-47-6	**1290**	10.0	2.00	ug/L	06.21.15 18.50	D	10
m,p-Xylenes	179601-23-1	**1850**	20.0	5.10	ug/L	06.21.15 18.50	D	10
Xylenes, Total	1330-20-7	**3140**	10.0	2.00	ug/L	06.21.15 18.50		10
Methyl tert-butyl ether	1634-04-4	**231**	2.00	0.180	ug/L	06.19.15 14.16		1
Naphthalene	91-20-3	**252**	10.0	2.20	ug/L	06.21.15 18.50	D	10
1,2-Dichloroethane	107-06-2	**48.4**	1.00	0.180	ug/L	06.19.15 14.16		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 14.16	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 14.16	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 14.16	U	1
Ethyl tert-butyl alcohol	590-36-3	**719**	50.0	11.0	ug/L	06.21.15 18.50	D	10
tert-Butyl alcohol	75-65-0	**714**	5.00	1.00	ug/L	06.19.15 14.16		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 14.16	U	1
tert-Amyl alcohol	75-85-4	**2570**	50.0	11.0	ug/L	06.21.15 18.50	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 14.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 14.16	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.19.15 14.16	
Toluene-D8	2037-26-5	101	%	70-130	06.19.15 14.16	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-20 Duplicate** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-005 Date Collected: 06.12.15 08.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**5.45**	1.01	0.302	ug/L	06.16.15 10.05	D	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.15.15 22.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2010**	50.0	8.00	ug/L	06.21.15 20.12	D	50
Toluene	108-88-3	**26.7**	1.00	0.140	ug/L	06.19.15 14.42		1
Ethylbenzene	100-41-4	**686**	10.0	1.90	ug/L	06.21.15 19.44	D	10
o-Xylene	95-47-6	**1400**	10.0	2.00	ug/L	06.21.15 19.44	D	10
m,p-Xylenes	179601-23-1	**2110**	20.0	5.10	ug/L	06.21.15 19.44	D	10
Xylenes, Total	1330-20-7	**3510**	10.0	2.00	ug/L	06.21.15 19.44		10
Methyl tert-butyl ether	1634-04-4	**228**	2.00	0.180	ug/L	06.19.15 14.42		1
Naphthalene	91-20-3	**250**	10.0	2.20	ug/L	06.21.15 19.44	D	10
1,2-Dichloroethane	107-06-2	**47.5**	1.00	0.180	ug/L	06.19.15 14.42		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 14.42	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 14.42	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 14.42	U	1
Ethyl tert-butyl alcohol	590-36-3	**909**	50.0	11.0	ug/L	06.21.15 19.44	D	10
tert-Butyl alcohol	75-65-0	**865**	5.00	1.00	ug/L	06.19.15 14.42		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 14.42	U	1
tert-Amyl alcohol	75-85-4	**3040**	50.0	11.0	ug/L	06.21.15 19.44	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 14.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 14.42	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.19.15 14.42	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 14.42	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-21** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-006 Date Collected: 06.12.15 09.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.78**	0.421	0.126	ug/L	06.16.15 10.29	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	60-140	06.15.15 22.50	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**4380**	25.0	4.00	ug/L	06.21.15 22.29	D	25
Toluene	108-88-3	**3740**	25.0	3.50	ug/L	06.21.15 22.29	D	25
Ethylbenzene	100-41-4	**440**	25.0	4.75	ug/L	06.21.15 22.29	D	25
o-Xylene	95-47-6	**708**	25.0	5.00	ug/L	06.21.15 22.29	D	25
m,p-Xylenes	179601-23-1	**1510**	50.0	12.8	ug/L	06.21.15 22.29	D	25
Xylenes, Total	1330-20-7	**2220**	25.0	5.00	ug/L	06.21.15 22.29		25
Methyl tert-butyl ether	1634-04-4	**833**	50.0	4.50	ug/L	06.21.15 22.29	D	25
Naphthalene	91-20-3	**141**	1.00	0.220	ug/L	06.19.15 15.08		1
1,2-Dichloroethane	107-06-2	**173**	1.00	0.180	ug/L	06.19.15 15.08		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 15.08	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 15.08	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 15.08	U	1
Ethyl tert-butyl alcohol	590-36-3	**2900**	125	27.5	ug/L	06.21.15 22.29	D	25
tert-Butyl alcohol	75-65-0	**16100**	125	25.0	ug/L	06.21.15 22.29	D	25
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 15.08	U	1
tert-Amyl alcohol	75-85-4	**11200**	125	27.5	ug/L	06.21.15 22.29	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 15.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.19.15 15.08	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.19.15 15.08	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 15.08	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-22** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-007 Date Collected: 06.12.15 09.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**5.26**	1.01	0.302	ug/L	06.16.15 10.53	D	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	60-140	06.15.15 23.14	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1970**	10.0	1.60	ug/L	06.21.15 20.39	D	10
Toluene	108-88-3	**56.3**	1.00	0.140	ug/L	06.19.15 15.33		1
Ethylbenzene	100-41-4	**307**	10.0	1.90	ug/L	06.21.15 20.39	D	10
o-Xylene	95-47-6	**994**	10.0	2.00	ug/L	06.21.15 20.39	D	10
m,p-Xylenes	179601-23-1	**767**	20.0	5.10	ug/L	06.21.15 20.39	D	10
Xylenes, Total	1330-20-7	**1760**	10.0	2.00	ug/L	06.21.15 20.39		10
Methyl tert-butyl ether	1634-04-4	**51.0**	2.00	0.180	ug/L	06.19.15 15.33		1
Naphthalene	91-20-3	**212**	10.0	2.20	ug/L	06.21.15 20.39	D	10
1,2-Dichloroethane	107-06-2	**22.3**	1.00	0.180	ug/L	06.19.15 15.33		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 15.33	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 15.33	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 15.33	U	1
Ethyl tert-butyl alcohol	590-36-3	**845**	5.00	1.10	ug/L	06.19.15 15.33		1
tert-Butyl alcohol	75-65-0	**617**	5.00	1.00	ug/L	06.19.15 15.33		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 15.33	U	1
tert-Amyl alcohol	75-85-4	**2090**	50.0	11.0	ug/L	06.21.15 20.39	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 15.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.19.15 15.33	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.19.15 15.33	
Toluene-D8	2037-26-5	102	%	70-130	06.19.15 15.33	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-10** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-008 Date Collected: 06.12.15 10.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.13**	0.400	0.120	ug/L	06.16.15 11.17	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	60-140	06.15.15 23.38	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1820**	50.0	8.00	ug/L	06.21.15 22.02	D	50
Toluene	108-88-3	**6.93**	1.00	0.140	ug/L	06.19.15 15.59		1
Ethylbenzene	100-41-4	**635**	10.0	1.90	ug/L	06.21.15 21.34	D	10
o-Xylene	95-47-6	**624**	10.0	2.00	ug/L	06.21.15 21.34	D	10
m,p-Xylenes	179601-23-1	**1080**	20.0	5.10	ug/L	06.21.15 21.34	D	10
Xylenes, Total	1330-20-7	**1700**	10.0	2.00	ug/L	06.21.15 21.34		10
Methyl tert-butyl ether	1634-04-4	**200**	2.00	0.180	ug/L	06.19.15 15.59		1
Naphthalene	91-20-3	**382**	10.0	2.20	ug/L	06.21.15 21.34	D	10
1,2-Dichloroethane	107-06-2	**48.2**	1.00	0.180	ug/L	06.19.15 15.59		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 15.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 15.59	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 15.59	U	1
Ethyl tert-butyl alcohol	590-36-3	**883**	5.00	1.10	ug/L	06.19.15 15.59		1
tert-Butyl alcohol	75-65-0	**2070**	50.0	10.0	ug/L	06.21.15 21.34	D	10
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 15.59	U	1
tert-Amyl alcohol	75-85-4	**2410**	50.0	11.0	ug/L	06.21.15 21.34	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	87	%	53-159	06.19.15 15.59	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.19.15 15.59	
Toluene-D8	2037-26-5	98	%	70-130	06.19.15 15.59	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-009 Date Collected: 06.12.15 10.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00604	0.0201	0.00604	ug/L	06.17.15 16.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	60-140	06.17.15 16.32	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 16.34	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 16.34	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 16.34	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 16.34	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 16.34	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 16.34	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 16.34	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 16.34	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 16.34	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 16.34	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 16.34	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 16.34	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 16.34	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 16.34	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 16.34	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 16.34	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 16.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.16.15 16.34	
4-Bromofluorobenzene	460-00-4	109	%	30-186	06.16.15 16.34	
Toluene-D8	2037-26-5	102	%	70-130	06.16.15 16.34	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-20D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-010 Date Collected: 06.10.15 15.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00634	0.0211	0.00634	ug/L	06.16.15 00.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	60-140	06.16.15 00.02	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.21.15 15.19	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 15.19	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.21.15 15.19	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 15.19	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 15.19	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 15.19	U	1
Methyl tert-butyl ether	1634-04-4	**30.0**	2.00	0.180	ug/L	06.21.15 15.19		1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.21.15 15.19	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.21.15 15.19	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 15.19	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 15.19	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 15.19	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.21.15 15.19	U	1
tert-Butyl alcohol	75-65-0	**55.6**	5.00	1.00	ug/L	06.21.15 15.19		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 15.19	U	1
tert-Amyl alcohol	75-85-4	**45.5**	5.00	1.10	ug/L	06.21.15 15.19		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 15.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	119	%	53-159	06.21.15 15.19	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.21.15 15.19	
Toluene-D8	2037-26-5	96	%	70-130	06.21.15 15.19	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-21D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-011 Date Collected: 06.10.15 16.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.327**	0.0213	0.00638	ug/L	06.16.15 00.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	60-140	06.16.15 00.26	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1460**	10.0	1.60	ug/L	06.21.15 16.14	D	10
Toluene	108-88-3	**539**	10.0	1.40	ug/L	06.21.15 16.14	D	10
Ethylbenzene	100-41-4	**37.6**	1.00	0.190	ug/L	06.19.15 16.50		1
o-Xylene	95-47-6	**74.5**	1.00	0.200	ug/L	06.19.15 16.50		1
m,p-Xylenes	179601-23-1	**120**	2.00	0.510	ug/L	06.19.15 16.50		1
Xylenes, Total	1330-20-7	**195**	1.00	0.200	ug/L	06.19.15 16.50		1
Methyl tert-butyl ether	1634-04-4	**335**	2.00	0.180	ug/L	06.19.15 16.50		1
Naphthalene	91-20-3	**15.4**	1.00	0.220	ug/L	06.19.15 16.50		1
1,2-Dichloroethane	107-06-2	**38.9**	1.00	0.180	ug/L	06.19.15 16.50		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 16.50	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 16.50	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 16.50	U	1
Ethyl tert-butyl alcohol	590-36-3	**1300**	50.0	11.0	ug/L	06.21.15 16.14	D	10
tert-Butyl alcohol	75-65-0	**2290**	50.0	10.0	ug/L	06.21.15 16.14	D	10
tert-Amyl methyl ether	994-05-8	**5.21**	1.00	0.300	ug/L	06.19.15 16.50		1
tert-Amyl alcohol	75-85-4	**6830**	50.0	11.0	ug/L	06.21.15 16.14	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 16.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	87	%	53-159	06.19.15 16.50	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.19.15 16.50	
Toluene-D8	2037-26-5	101	%	70-130	06.19.15 16.50	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-22D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-012 Date Collected: 06.10.15 16.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.32**	0.425	0.128	ug/L	06.16.15 11.41	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	60-140	06.16.15 00.50	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1490**	25.0	4.00	ug/L	06.21.15 22.57	D	25
Toluene	108-88-3	**76.0**	1.00	0.140	ug/L	06.19.15 17.15		1
Ethylbenzene	100-41-4	**296**	25.0	4.75	ug/L	06.21.15 22.57	D	25
o-Xylene	95-47-6	**458**	25.0	5.00	ug/L	06.21.15 22.57	D	25
m,p-Xylenes	179601-23-1	**111**	2.00	0.510	ug/L	06.19.15 17.15		1
Xylenes, Total	1330-20-7	**569**	2.00	0.510	ug/L	06.21.15 22.57		25
Methyl tert-butyl ether	1634-04-4	**138**	2.00	0.180	ug/L	06.19.15 17.15		1
Naphthalene	91-20-3	**155**	25.0	5.50	ug/L	06.21.15 22.57	D	25
1,2-Dichloroethane	107-06-2	**43.7**	1.00	0.180	ug/L	06.19.15 17.15		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 17.15	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 17.15	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 17.15	U	1
Ethyl tert-butyl alcohol	590-36-3	**1730**	125	27.5	ug/L	06.21.15 22.57	D	25
tert-Butyl alcohol	75-65-0	**2610**	125	25.0	ug/L	06.21.15 22.57	D	25
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 17.15	U	1
tert-Amyl alcohol	75-85-4	**5300**	125	27.5	ug/L	06.21.15 22.57	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 17.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 17.15	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.19.15 17.15	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 17.15	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-16** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-013 Date Collected: 06.11.15 09.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00619	0.0206	0.00619	ug/L	06.16.15 01.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	60-140	06.16.15 01.14	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.21.15 12.45

Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.21.15 15.45	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 15.45	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.21.15 15.45	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 15.45	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 15.45	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 15.45	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 15.45	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.21.15 15.45	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.21.15 15.45	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 15.45	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 15.45	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 15.45	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.21.15 15.45	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 15.45	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 15.45	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.21.15 15.45	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 15.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	123	%	53-159	06.21.15 15.45	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.21.15 15.45	
Toluene-D8	2037-26-5	98	%	70-130	06.21.15 15.45	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-14** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-014 Date Collected: 06.11.15 10.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0148**	0.0202	0.00605	ug/L	06.16.15 01.39	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	60-140	06.16.15 01.39	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**20.1**	1.00	0.160	ug/L	06.21.15 16.10		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 16.10	U	1
Ethylbenzene	100-41-4	**3.54**	1.00	0.190	ug/L	06.21.15 16.10		1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 16.10	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 16.10	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 16.10	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 16.10	U	1
Naphthalene	91-20-3	**1.91**	1.00	0.220	ug/L	06.21.15 16.10		1
1,2-Dichloroethane	107-06-2	**1.46**	1.00	0.180	ug/L	06.21.15 16.10		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 16.10	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 16.10	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 16.10	U	1
Ethyl tert-butyl alcohol	590-36-3	**39.7**	5.00	1.10	ug/L	06.21.15 16.10		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 16.10	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 16.10	U	1
tert-Amyl alcohol	75-85-4	**98.5**	5.00	1.10	ug/L	06.21.15 16.10		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 16.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	121	%	53-159	06.21.15 16.10	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.21.15 16.10	
Toluene-D8	2037-26-5	102	%	70-130	06.21.15 16.10	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-19** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-015 Date Collected: 06.11.15 11.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00614	0.0205	0.00614	ug/L	06.16.15 15.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	60-140	06.16.15 15.35	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3.61**	1.00	0.160	ug/L	06.19.15 18.33		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.19.15 18.33	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.19.15 18.33	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.19.15 18.33	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.19.15 18.33	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.19.15 18.33	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 18.33	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.19.15 18.33	U	1
1,2-Dichloroethane	107-06-2	**78.1**	1.00	0.180	ug/L	06.19.15 18.33		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 18.33	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 18.33	U	1
Diisopropyl ether	108-20-3	**47.0**	1.00	0.0800	ug/L	06.19.15 18.33		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.19.15 18.33	U	1
tert-Butyl alcohol	75-65-0	**73.2**	5.00	1.00	ug/L	06.19.15 18.33		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 18.33	U	1
tert-Amyl alcohol	75-85-4	**137**	5.00	1.10	ug/L	06.19.15 18.33		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.19.15 18.33	
4-Bromofluorobenzene	460-00-4	106	%	30-186	06.19.15 18.33	
Toluene-D8	2037-26-5	101	%	70-130	06.19.15 18.33	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-12** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-016 Date Collected: 06.11.15 13.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00610	0.0203	0.00610	ug/L	06.16.15 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.16.15 15.59	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**4540**	25.0	4.00	ug/L	06.21.15 23.24	D	25
Toluene	108-88-3	**182**	25.0	3.50	ug/L	06.21.15 23.24	D	25
Ethylbenzene	100-41-4	**574**	25.0	4.75	ug/L	06.21.15 23.24	D	25
o-Xylene	95-47-6	**1020**	25.0	5.00	ug/L	06.21.15 23.24	D	25
m,p-Xylenes	179601-23-1	**1060**	50.0	12.8	ug/L	06.21.15 23.24	D	25
Xylenes, Total	1330-20-7	**2080**	25.0	5.00	ug/L	06.21.15 23.24		25
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 18.59	U	1
Naphthalene	91-20-3	**450**	25.0	5.50	ug/L	06.21.15 23.24	D	25
1,2-Dichloroethane	107-06-2	**35.0**	1.00	0.180	ug/L	06.19.15 18.59		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 18.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 18.59	U	1
Diisopropyl ether	108-20-3	**34.3**	1.00	0.0800	ug/L	06.19.15 18.59		1
Ethyl tert-butyl alcohol	590-36-3	**4370**	125	27.5	ug/L	06.21.15 23.24	D	25
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 18.59	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 18.59	U	1
tert-Amyl alcohol	75-85-4	**5220**	125	27.5	ug/L	06.21.15 23.24	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 18.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	94	%	53-159	06.19.15 18.59	
4-Bromofluorobenzene	460-00-4	94	%	30-186	06.19.15 18.59	
Toluene-D8	2037-26-5	100	%	70-130	06.19.15 18.59	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-017 Date Collected: 06.11.15 13.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00615	0.0205	0.00615	ug/L	06.17.15 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	60-140	06.17.15 16.56	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 17.01	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 17.01	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 17.01	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 17.01	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 17.01	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 17.01	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 17.01	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 17.01	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 17.01	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 17.01	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 17.01	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 17.01	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 17.01	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 17.01	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 17.01	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 17.01	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 17.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	105	%	53-159	06.16.15 17.01	
4-Bromofluorobenzene	460-00-4	107	%	30-186	06.16.15 17.01	
Toluene-D8	2037-26-5	101	%	70-130	06.16.15 17.01	

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-04** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-018 Date Collected: 06.11.15 14.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0314**	0.0206	0.00617	ug/L	06.16.15 16.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	60-140	06.16.15 16.23	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**27.2**	1.00	0.160	ug/L	06.21.15 17.02		1
Toluene	108-88-3	**3.03**	1.00	0.140	ug/L	06.21.15 17.02		1
Ethylbenzene	100-41-4	**148**	1.00	0.190	ug/L	06.21.15 17.02		1
o-Xylene	95-47-6	**208**	5.00	1.00	ug/L	06.21.15 17.29	D	5
m,p-Xylenes	179601-23-1	**429**	10.0	2.55	ug/L	06.21.15 17.29	D	5
Xylenes, Total	1330-20-7	**637**	5.00	1.00	ug/L	06.21.15 17.29		5
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 17.02	U	1
Naphthalene	91-20-3	**180**	1.00	0.220	ug/L	06.21.15 17.02		1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.21.15 17.02	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 17.02	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 17.02	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 17.02	U	1
Ethyl tert-butyl alcohol	590-36-3	**34.9**	5.00	1.10	ug/L	06.21.15 17.02		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 17.02	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 17.02	U	1
tert-Amyl alcohol	75-85-4	**51.9**	5.00	1.10	ug/L	06.21.15 17.02		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 17.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	117	%	53-159	06.21.15 17.02	
4-Bromofluorobenzene	460-00-4	92	%	30-186	06.21.15 17.02	
Toluene-D8	2037-26-5	98	%	70-130	06.21.15 17.02	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-04 DUP** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-019 Date Collected: 06.11.15 14.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0259**	0.0205	0.00614	ug/L	06.16.15 16.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.16.15 16.47	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**33.1**	1.00	0.160	ug/L	06.19.15 19.52		1
Toluene	108-88-3	**3.67**	1.00	0.140	ug/L	06.19.15 19.52		1
Ethylbenzene	100-41-4	**146**	1.00	0.190	ug/L	06.19.15 19.52		1
o-Xylene	95-47-6	**252**	5.00	1.00	ug/L	06.21.15 16.43	D	5
m,p-Xylenes	179601-23-1	**519**	10.0	2.55	ug/L	06.21.15 16.43	D	5
Xylenes, Total	1330-20-7	**771**	5.00	1.00	ug/L	06.21.15 16.43		5
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 19.52	U	1
Naphthalene	91-20-3	**187**	1.00	0.220	ug/L	06.19.15 19.52		1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.19.15 19.52	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 19.52	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 19.52	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 19.52	U	1
Ethyl tert-butyl alcohol	590-36-3	**44.9**	5.00	1.10	ug/L	06.19.15 19.52		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 19.52	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 19.52	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.19.15 19.52	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 19.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 19.52	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.19.15 19.52	
Toluene-D8	2037-26-5	100	%	70-130	06.19.15 19.52	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/PW-01** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-020 Date Collected: 06.09.15 14.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00620	0.0207	0.00620	ug/L	06.16.15 17.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	60-140	06.16.15 17.11	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.21.15 16.36	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 16.36	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.21.15 16.36	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 16.36	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 16.36	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 16.36	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 16.36	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.21.15 16.36	U	1
1,2-Dichloroethane	107-06-2	**1.40**	1.00	0.180	ug/L	06.21.15 16.36		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 16.36	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 16.36	U	1
Diisopropyl ether	108-20-3	**2.21**	1.00	0.0800	ug/L	06.21.15 16.36		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.21.15 16.36	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 16.36	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 16.36	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.21.15 16.36	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 16.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	125	%	53-159	06.21.15 16.36	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.21.15 16.36	
Toluene-D8	2037-26-5	100	%	70-130	06.21.15 16.36	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-021 Date Collected: 06.09.15 16.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00621	0.0207	0.00621	ug/L	06.17.15 17.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	60-140	06.17.15 17.20	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 17.28	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 17.28	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 17.28	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 17.28	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 17.28	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 17.28	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 17.28	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 17.28	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 17.28	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 17.28	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 17.28	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 17.28	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 17.28	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 17.28	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 17.28	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 17.28	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 17.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	103	%	53-159	06.16.15 17.28	
4-Bromofluorobenzene	460-00-4	110	%	30-186	06.16.15 17.28	
Toluene-D8	2037-26-5	99	%	70-130	06.16.15 17.28	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-15D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-022 Date Collected: 06.09.15 16.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00627	0.0209	0.00627	ug/L	06.16.15 17.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	60-140	06.16.15 17.36	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**31.7**	1.00	0.160	ug/L	06.20.15 16.04		1
Toluene	108-88-3	**2.70**	1.00	0.140	ug/L	06.20.15 16.04		1
Ethylbenzene	100-41-4	**10.5**	1.00	0.190	ug/L	06.20.15 16.04		1
o-Xylene	95-47-6	**5.11**	1.00	0.200	ug/L	06.20.15 16.04		1
m,p-Xylenes	179601-23-1	**10.7**	2.00	0.510	ug/L	06.20.15 16.04		1
Xylenes, Total	1330-20-7	**15.8**	1.00	0.200	ug/L	06.20.15 16.04		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 16.04	U	1
Naphthalene	91-20-3	**11.9**	1.00	0.220	ug/L	06.20.15 16.04		1
1,2-Dichloroethane	107-06-2	**3.20**	1.00	0.180	ug/L	06.20.15 16.04		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 16.04	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 16.04	U	1
Diisopropyl ether	108-20-3	**1.76**	1.00	0.0800	ug/L	06.20.15 16.04		1
Ethyl tert-butyl alcohol	590-36-3	**47.8**	5.00	1.10	ug/L	06.20.15 16.04		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 16.04	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 16.04	U	1
tert-Amyl alcohol	75-85-4	**78.0**	5.00	1.10	ug/L	06.20.15 16.04		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 16.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	107	%	53-159	06.20.15 16.04	
4-Bromofluorobenzene	460-00-4	104	%	30-186	06.20.15 16.04	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 16.04	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-15** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-023 Date Collected: 06.09.15 17.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00620	0.0207	0.00620	ug/L	06.16.15 18.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	60-140	06.16.15 18.00	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 15.39	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 15.39	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 15.39	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 15.39	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 15.39	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 15.39	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 15.39	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 15.39	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 15.39	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 15.39	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 15.39	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 15.39	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 15.39	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 15.39	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 15.39	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 15.39	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 15.39	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 15.39	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 15.39	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 15.39	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-17D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-024 Date Collected: 06.10.15 09.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00644	0.0215	0.00644	ug/L	06.16.15 18.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	60-140	06.16.15 18.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 16.30	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 16.30	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 16.30	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 16.30	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 16.30	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 16.30	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 16.30	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 16.30	U	1
1,2-Dichloroethane	107-06-2	**3.38**	1.00	0.180	ug/L	06.20.15 16.30		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 16.30	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 16.30	U	1
Diisopropyl ether	108-20-3	**1.67**	1.00	0.0800	ug/L	06.20.15 16.30		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 16.30	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 16.30	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 16.30	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 16.30	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 16.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	06.20.15 16.30	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 16.30	
Toluene-D8	2037-26-5	101	%	70-130	06.20.15 16.30	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-025 Date Collected: 06.10.15 10.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00618	0.0206	0.00618	ug/L	06.17.15 17.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	60-140	06.17.15 17.45	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 17.55	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 17.55	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 17.55	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 17.55	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 17.55	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 17.55	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 17.55	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 17.55	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 17.55	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 17.55	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 17.55	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 17.55	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 17.55	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 17.55	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 17.55	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 17.55	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 17.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	06.16.15 17.55	
4-Bromofluorobenzene	460-00-4	111	%	30-186	06.16.15 17.55	
Toluene-D8	2037-26-5	100	%	70-130	06.16.15 17.55	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-18D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-026 Date Collected: 06.10.15 10.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00634	0.0211	0.00634	ug/L	06.16.15 18.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	60-140	06.16.15 18.49	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**27.7**	1.00	0.160	ug/L	06.20.15 16.56		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 16.56	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 16.56	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 16.56	U	1
m,p-Xylenes	179601-23-1	**0.630**	2.00	0.510	ug/L	06.20.15 16.56	J	1
Xylenes, Total	1330-20-7	**0.630**	1.00	0.200	ug/L	06.20.15 16.56	J	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 16.56	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 16.56	U	1
1,2-Dichloroethane	107-06-2	**22.1**	1.00	0.180	ug/L	06.20.15 16.56		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 16.56	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 16.56	U	1
Diisopropyl ether	108-20-3	**23.2**	1.00	0.0800	ug/L	06.20.15 16.56		1
Ethyl tert-butyl alcohol	590-36-3	**14.6**	5.00	1.10	ug/L	06.20.15 16.56		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 16.56	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 16.56	U	1
tert-Amyl alcohol	75-85-4	**64.9**	5.00	1.10	ug/L	06.20.15 16.56		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	108	%	53-159	06.20.15 16.56	
4-Bromofluorobenzene	460-00-4	105	%	30-186	06.20.15 16.56	
Toluene-D8	2037-26-5	99	%	70-130	06.20.15 16.56	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-19D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-027 Date Collected: 06.10.15 12.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00629	0.0210	0.00629	ug/L	06.16.15 19.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	60-140	06.16.15 19.13	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 17.22	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 17.22	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 17.22	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 17.22	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 17.22	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 17.22	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 17.22	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 17.22	U	1
1,2-Dichloroethane	107-06-2	**1.69**	1.00	0.180	ug/L	06.20.15 17.22		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 17.22	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 17.22	U	1
Diisopropyl ether	108-20-3	**1.22**	1.00	0.0800	ug/L	06.20.15 17.22		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 17.22	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 17.22	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 17.22	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 17.22	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 17.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.20.15 17.22	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 17.22	
Toluene-D8	2037-26-5	101	%	70-130	06.20.15 17.22	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-16D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-028 Date Collected: 06.10.15 14.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00646	0.0215	0.00646	ug/L	06.16.15 20.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	60-140	06.16.15 20.02	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**32.9**	1.00	0.160	ug/L	06.20.15 17.48		1
Toluene	108-88-3	**1.16**	1.00	0.140	ug/L	06.20.15 17.48		1
Ethylbenzene	100-41-4	**9.24**	1.00	0.190	ug/L	06.20.15 17.48		1
o-Xylene	95-47-6	**5.20**	1.00	0.200	ug/L	06.20.15 17.48		1
m,p-Xylenes	179601-23-1	**15.0**	2.00	0.510	ug/L	06.20.15 17.48		1
Xylenes, Total	1330-20-7	**20.2**	1.00	0.200	ug/L	06.20.15 17.48		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 17.48	U	1
Naphthalene	91-20-3	**8.58**	1.00	0.220	ug/L	06.20.15 17.48		1
1,2-Dichloroethane	107-06-2	**6.61**	1.00	0.180	ug/L	06.20.15 17.48		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 17.48	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 17.48	U	1
Diisopropyl ether	108-20-3	**5.87**	1.00	0.0800	ug/L	06.20.15 17.48		1
Ethyl tert-butyl alcohol	590-36-3	**69.5**	5.00	1.10	ug/L	06.20.15 17.48		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 17.48	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 17.48	U	1
tert-Amyl alcohol	75-85-4	**285**	5.00	1.10	ug/L	06.20.15 17.48		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 17.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	111	%	53-159	06.20.15 17.48	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 17.48	
Toluene-D8	2037-26-5	99	%	70-130	06.20.15 17.48	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-08D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-029 Date Collected: 06.10.15 15.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00632	0.0211	0.00632	ug/L	06.16.15 20.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	60-140	06.16.15 20.26	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2.65**	1.00	0.160	ug/L	06.20.15 18.14		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 18.14	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 18.14	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 18.14	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 18.14	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 18.14	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 18.14	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 18.14	U	1
1,2-Dichloroethane	107-06-2	**2.28**	1.00	0.180	ug/L	06.20.15 18.14		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 18.14	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 18.14	U	1
Diisopropyl ether	108-20-3	**5.50**	1.00	0.0800	ug/L	06.20.15 18.14		1
Ethyl tert-butyl alcohol	590-36-3	**18.1**	5.00	1.10	ug/L	06.20.15 18.14		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 18.14	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 18.14	U	1
tert-Amyl alcohol	75-85-4	**193**	5.00	1.10	ug/L	06.20.15 18.14		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 18.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 18.14	
4-Bromofluorobenzene	460-00-4	105	%	30-186	06.20.15 18.14	
Toluene-D8	2037-26-5	102	%	70-130	06.20.15 18.14	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-06** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-030 Date Collected: 06.08.15 16.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00627	0.0209	0.00627	ug/L	06.16.15 20.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	60-140	06.16.15 20.51	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 18.41	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 18.41	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 18.41	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 18.41	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 18.41	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 18.41	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 18.41	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 18.41	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 18.41	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 18.41	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 18.41	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 18.41	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 18.41	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 18.41	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 18.41	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 18.41	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 18.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 18.41	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 18.41	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 18.41	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-17** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-031 Date Collected: 06.08.15 16.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00613	0.0204	0.00613	ug/L	06.16.15 21.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	60-140	06.16.15 21.15	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 19.07	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 19.07	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 19.07	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 19.07	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 19.07	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 19.07	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 19.07	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 19.07	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 19.07	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 19.07	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 19.07	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 19.07	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 19.07	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 19.07	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 19.07	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 19.07	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 19.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	109	%	53-159	06.20.15 19.07	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 19.07	
Toluene-D8	2037-26-5	102	%	70-130	06.20.15 19.07	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-032 Date Collected: 06.08.15 17.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.45
Seq Number: 970415

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00631	0.0210	0.00631	ug/L	06.17.15 11.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	60-140	06.17.15 11.19	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.16.15 11.37
Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 15.12	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 15.12	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 15.12	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 15.12	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 15.12	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 15.12	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 15.12	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 15.12	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 15.12	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 15.12	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 15.12	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 15.12	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 15.12	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 15.12	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 15.12	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 15.12	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 15.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	103	%	53-159	06.16.15 15.12	
4-Bromofluorobenzene	460-00-4	111	%	30-186	06.16.15 15.12	
Toluene-D8	2037-26-5	101	%	70-130	06.16.15 15.12	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-18** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-034 Date Collected: 06.09.15 10.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00630	0.0210	0.00630	ug/L	06.16.15 21.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.16.15 21.39	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 19.33	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 19.33	U	1
Ethylbenzene	100-41-4	**1.00**	1.00	0.190	ug/L	06.20.15 19.33	J	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 19.33	U	1
m,p-Xylenes	179601-23-1	**1.25**	2.00	0.510	ug/L	06.20.15 19.33	J	1
Xylenes, Total	1330-20-7	**1.25**	1.00	0.200	ug/L	06.20.15 19.33		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 19.33	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 19.33	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 19.33	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 19.33	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 19.33	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 19.33	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 19.33	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 19.33	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 19.33	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 19.33	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 19.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	108	%	53-159	06.20.15 19.33	
4-Bromofluorobenzene	460-00-4	106	%	30-186	06.20.15 19.33	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 19.33	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-09** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-035 Date Collected: 06.09.15 10.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0115**	0.0205	0.00614	ug/L	06.16.15 22.03	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	60-140	06.16.15 22.03	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.23**	1.00	0.160	ug/L	06.20.15 19.59		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 19.59	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 19.59	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 19.59	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 19.59	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 19.59	U	1
Methyl tert-butyl ether	1634-04-4	**2.77**	2.00	0.180	ug/L	06.20.15 19.59		1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 19.59	U	1
1,2-Dichloroethane	107-06-2	**0.490**	1.00	0.180	ug/L	06.20.15 19.59	J	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 19.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 19.59	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 19.59	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 19.59	U	1
tert-Butyl alcohol	75-65-0	**84.4**	5.00	1.00	ug/L	06.20.15 19.59		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 19.59	U	1
tert-Amyl alcohol	75-85-4	**62.4**	5.00	1.10	ug/L	06.20.15 19.59		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 19.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	114	%	53-159	06.20.15 19.59	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 19.59	
Toluene-D8	2037-26-5	101	%	70-130	06.20.15 19.59	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-3D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-036 Date Collected: 06.09.15 11.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00619	0.0206	0.00619	ug/L	06.16.15 22.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	60-140	06.16.15 22.28	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**10.1**	1.00	0.160	ug/L	06.20.15 20.26		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 20.26	U	1
Ethylbenzene	100-41-4	**1.23**	1.00	0.190	ug/L	06.20.15 20.26		1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 20.26	U	1
m,p-Xylenes	179601-23-1	**1.03**	2.00	0.510	ug/L	06.20.15 20.26	J	1
Xylenes, Total	1330-20-7	**1.03**	1.00	0.200	ug/L	06.20.15 20.26		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 20.26	U	1
Naphthalene	91-20-3	**2.78**	1.00	0.220	ug/L	06.20.15 20.26		1
1,2-Dichloroethane	107-06-2	**13.1**	1.00	0.180	ug/L	06.20.15 20.26		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 20.26	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 20.26	U	1
Diisopropyl ether	108-20-3	**13.7**	1.00	0.0800	ug/L	06.20.15 20.26		1
Ethyl tert-butyl alcohol	590-36-3	**81.6**	5.00	1.10	ug/L	06.20.15 20.26		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 20.26	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 20.26	U	1
tert-Amyl alcohol	75-85-4	**312**	5.00	1.10	ug/L	06.20.15 20.26		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 20.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	113	%	53-159	06.20.15 20.26	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.20.15 20.26	
Toluene-D8	2037-26-5	98	%	70-130	06.20.15 20.26	

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Eddie's Pit Stop

Sample Id: **18871/MW-03** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-037 Date Collected: 06.09.15 12.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00626	0.0209	0.00626	ug/L	06.16.15 23.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.16.15 23.16	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**88.7**	1.00	0.160	ug/L	06.20.15 20.52		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 20.52	U	1
Ethylbenzene	100-41-4	**32.7**	1.00	0.190	ug/L	06.20.15 20.52		1
o-Xylene	95-47-6	**1.98**	1.00	0.200	ug/L	06.20.15 20.52		1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 20.52	U	1
Xylenes, Total	1330-20-7	**1.98**	1.00	0.200	ug/L	06.20.15 20.52		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 20.52	U	1
Naphthalene	91-20-3	**59.1**	1.00	0.220	ug/L	06.20.15 20.52		1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 20.52	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 20.52	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 20.52	U	1
Diisopropyl ether	108-20-3	**2.81**	1.00	0.0800	ug/L	06.20.15 20.52		1
Ethyl tert-butyl alcohol	590-36-3	**152**	5.00	1.10	ug/L	06.20.15 20.52		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 20.52	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 20.52	U	1
tert-Amyl alcohol	75-85-4	**193**	5.00	1.10	ug/L	06.20.15 20.52		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 20.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	98	%	53-159	06.20.15 20.52	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.20.15 20.52	
Toluene-D8	2037-26-5	99	%	70-130	06.20.15 20.52	

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Eddie's Pit Stop

Sample Id: **18871/MW-07** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-038 Date Collected: 06.09.15 12.50

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00612	0.0204	0.00612	ug/L	06.16.15 23.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	60-140	06.16.15 23.40	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.01**	1.00	0.160	ug/L	06.20.15 21.18		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 21.18	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 21.18	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 21.18	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 21.18	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 21.18	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 21.18	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 21.18	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 21.18	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 21.18	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 21.18	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 21.18	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 21.18	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 21.18	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 21.18	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 21.18	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 21.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.20.15 21.18	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 21.18	
Toluene-D8	2037-26-5	103	%	70-130	06.20.15 21.18	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **TRIP BLANK** Matrix: Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-039 Date Collected: 06.08.15 00.00

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 15.13	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 15.13	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 15.13	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 15.13	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 15.13	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 15.13	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 15.13	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 15.13	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 15.13	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 15.13	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 15.13	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 15.13	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 15.13	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 15.13	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 15.13	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 15.13	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 15.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	105	%	53-159	06.20.15 15.13	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 15.13	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 15.13	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-11** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-040 Date Collected: 06.09.15 09.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00630	0.0210	0.00630	ug/L	06.17.15 00.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	60-140	06.17.15 00.04	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 21.44	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 21.44	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 21.44	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 21.44	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 21.44	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 21.44	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 21.44	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 21.44	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 21.44	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 21.44	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 21.44	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 21.44	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 21.44	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 21.44	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 21.44	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 21.44	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 21.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 21.44	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 21.44	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 21.44	

TERRACON Co.

Eddie's Pit Stop

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970305 — Matrix: Water — Date Prep: 06.15.15
MB Sample Id: 693860-1-BLK — LCS Sample Id: 693860-1-BKS — LCSD Sample Id: 693860-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.189	126	0.179	119	60-140	5	30	ug/L	06.15.15 16:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	115		112		108		60-140	%	06.15.15 16:21

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970387 — Matrix: Water — Date Prep: 06.16.15
MB Sample Id: 693887-1-BLK — LCS Sample Id: 693887-1-BKS — LCSD Sample Id: 693887-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.189	126	0.199	133	60-140	5	30	ug/L	06.16.15 14:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	110		120		126		60-140	%	06.16.15 14:46

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970415 — Matrix: Water — Date Prep: 06.16.15
MB Sample Id: 693888-1-BLK — LCS Sample Id: 693888-1-BKS — LCSD Sample Id: 693888-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.179	119	0.185	123	60-140	3	30	ug/L	06.17.15 02:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	114		116		120		60-140	%	06.17.15 02:05

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970519 — Matrix: Water — Date Prep: 06.17.15
MB Sample Id: 693971-1-BLK — LCS Sample Id: 693971-1-BKS — LCSD Sample Id: 693971-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.198	132	0.187	125	60-140	4	30	ug/L	06.17.15 15:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	119		125		130		60-140	%	06.17.15 15:43

TERRACON Co.

Eddie's Pit Stop

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970305 — Matrix: Ground Water — Date Prep: 06.15.15
Parent Sample Id: 509580-001 — MS Sample Id: 509580-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2-Dibromoethane	0.317	0.152	0.467	99	60-140	ug/L	06.15.15 20:24	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	118		60-140	%	06.15.15 20:24

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970387 — Matrix: Ground Water — Date Prep: 06.16.15
Parent Sample Id: 509580-036 — MS Sample Id: 509580-036 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00632	0.158	0.173	109	60-140	ug/L	06.16.15 22:52	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	116		60-140	%	06.16.15 22:52

Analytical Method: BTEX & Oxygenates by SW-846 8260B — Prep Method: SW5030B
Seq Number: 970423 — Matrix: Water — Date Prep: 06.16.15
MB Sample Id: 693960-1-BLK — LCS Sample Id: 693960-1-BKS — LCSD Sample Id: 693960-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.2	92	46.2	92	80-120	0	20	ug/L	06.16.15 12:57	
Toluene	<0.140	50.0	47.5	95	46.9	94	75-120	1	20	ug/L	06.16.15 12:57	
Ethylbenzene	<0.190	50.0	48.7	97	47.5	95	75-125	2	20	ug/L	06.16.15 12:57	
o-Xylene	<0.200	50.0	48.6	97	47.7	95	80-120	2	20	ug/L	06.16.15 12:57	
m,p-Xylenes	<0.510	100	95.4	95	92.7	93	75-130	3	20	ug/L	06.16.15 12:57	
Methyl tert-butyl ether	<0.180	100	97.2	97	98.9	99	65-125	2	20	ug/L	06.16.15 12:57	
Naphthalene	<0.220	50.0	45.6	91	45.5	91	55-140	0	20	ug/L	06.16.15 12:57	
1,2-Dichloroethane	<0.180	50.0	46.2	92	45.9	92	70-130	1	20	ug/L	06.16.15 12:57	
Ethanol	<8.00	2000	2000	100	2000	100	65-135	0	20	ug/L	06.16.15 12:57	
Ethyl tert-butyl ether	<0.300	50.0	46.8	94	46.6	93	65-135	0	20	ug/L	06.16.15 12:57	
Diisopropyl ether	<0.0800	50.0	48.3	97	47.7	95	65-135	1	20	ug/L	06.16.15 12:57	
Ethyl tert-butyl alcohol	<1.10	500	394	79	401	80	40-140	2	20	ug/L	06.16.15 12:57	
tert-Butyl alcohol	<1.00	500	483	97	510	102	65-135	5	20	ug/L	06.16.15 12:57	
tert-Amyl methyl ether	<0.300	50.0	44.4	89	44.3	89	65-135	0	20	ug/L	06.16.15 12:57	
tert-Amyl alcohol	<1.10	500	416	83	431	86	40-140	4	20	ug/L	06.16.15 12:57	
tert-Butyl formate	<1.00	250	235	94	234	94	40-140	0	20	ug/L	06.16.15 12:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	104		96		98		53-159	%	06.16.15 12:57
4-Bromofluorobenzene	112		94		96		30-186	%	06.16.15 12:57
Toluene-D8	101		99		98		70-130	%	06.16.15 12:57

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970687 Matrix: Water Date Prep: 06.19.15

MB Sample Id: 694144-1-BLK LCS Sample Id: 694144-1-BKS LCSD Sample Id: 694144-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	45.7	91	46.4	93	80-120	2	20	ug/L	06.19.15 10:52	
Toluene	<0.140	50.0	47.3	95	47.5	95	75-120	0	20	ug/L	06.19.15 10:52	
Ethylbenzene	<0.190	50.0	50.9	102	50.9	102	75-125	0	20	ug/L	06.19.15 10:52	
o-Xylene	<0.200	50.0	51.8	104	50.6	101	80-120	2	20	ug/L	06.19.15 10:52	
m,p-Xylenes	<0.510	100	102	102	103	103	75-130	1	20	ug/L	06.19.15 10:52	
Methyl tert-butyl ether	<0.180	100	98.5	99	99.8	100	65-125	1	20	ug/L	06.19.15 10:52	
Naphthalene	<0.220	50.0	46.8	94	48.2	96	55-140	3	20	ug/L	06.19.15 10:52	
1,2-Dichloroethane	<0.180	50.0	53.4	107	55.0	110	70-130	3	20	ug/L	06.19.15 10:52	
Ethanol	<8.00	2000	1440	72	1630	82	65-135	12	20	ug/L	06.19.15 10:52	
Ethyl tert-butyl ether	<0.300	50.0	44.6	89	44.5	89	65-135	0	20	ug/L	06.19.15 10:52	
Diisopropyl ether	<0.0800	50.0	33.7	67	34.2	68	65-135	1	20	ug/L	06.19.15 10:52	
Ethyl tert-butyl alcohol	<1.10	500	319	64	349	70	40-140	9	20	ug/L	06.19.15 10:52	
tert-Butyl alcohol	<1.00	500	369	74	374	75	65-135	1	20	ug/L	06.19.15 10:52	
tert-Amyl methyl ether	<0.300	50.0	46.4	93	46.7	93	65-135	1	20	ug/L	06.19.15 10:52	
tert-Amyl alcohol	<1.10	500	342	68	361	72	40-140	5	20	ug/L	06.19.15 10:52	
tert-Butyl formate	<1.00	250	210	84	212	85	40-140	1	20	ug/L	06.19.15 10:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	102		107		110		53-159	%	06.19.15 10:52
4-Bromofluorobenzene	98		102		98		30-186	%	06.19.15 10:52
Toluene-D8	102		100		97		70-130	%	06.19.15 10:52

TERRACON Co.

Eddie's Pit Stop

Analytical Method: BTEX & Oxygenates by SW-846 8260B — Prep Method: SW5030B
Seq Number: 970698 — Matrix: Water — Date Prep: 06.20.15
MB Sample Id: 694156-1-BLK — LCS Sample Id: 694156-1-BKS — LCSD Sample Id: 694156-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	44.8	90	46.2	92	80-120	3	20	ug/L	06.20.15 13:29	
Toluene	<0.140	50.0	46.2	92	46.0	92	75-120	0	20	ug/L	06.20.15 13:29	
Ethylbenzene	<0.190	50.0	48.3	97	48.3	97	75-125	0	20	ug/L	06.20.15 13:29	
o-Xylene	<0.200	50.0	46.2	92	47.8	96	80-120	3	20	ug/L	06.20.15 13:29	
m,p-Xylenes	<0.510	100	94.5	95	98.1	98	75-130	4	20	ug/L	06.20.15 13:29	
Methyl tert-butyl ether	<0.180	100	89.1	89	92.6	93	65-125	4	20	ug/L	06.20.15 13:29	
Naphthalene	<0.220	50.0	44.6	89	47.0	94	55-140	5	20	ug/L	06.20.15 13:29	
1,2-Dichloroethane	<0.180	50.0	48.5	97	49.4	99	70-130	2	20	ug/L	06.20.15 13:29	
Ethanol	<8.00	2000	1650	83	1730	87	65-135	5	20	ug/L	06.20.15 13:29	
Ethyl tert-butyl ether	<0.300	50.0	42.2	84	43.7	87	65-135	3	20	ug/L	06.20.15 13:29	
Diisopropyl ether	<0.0800	50.0	34.8	70	36.3	73	65-135	4	20	ug/L	06.20.15 13:29	
Ethyl tert-butyl alcohol	<1.10	500	318	64	339	68	40-140	6	20	ug/L	06.20.15 13:29	
tert-Butyl alcohol	<1.00	500	406	81	462	92	65-135	13	20	ug/L	06.20.15 13:29	
tert-Amyl methyl ether	<0.300	50.0	42.7	85	44.2	88	65-135	3	20	ug/L	06.20.15 13:29	
tert-Amyl alcohol	<1.10	500	338	68	333	67	40-140	1	20	ug/L	06.20.15 13:29	
tert-Butyl formate	<1.00	250	189	76	201	80	40-140	6	20	ug/L	06.20.15 13:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	104		98		98		53-159	%	06.20.15 13:29
4-Bromofluorobenzene	107		102		101		30-186	%	06.20.15 13:29
Toluene-D8	101		99		99		70-130	%	06.20.15 13:29

Analytical Method: BTEX & Oxygenates by SW-846 8260B — Prep Method: SW5030B
Seq Number: 970726 — Matrix: Water — Date Prep: 06.21.15
MB Sample Id: 694171-1-BLK — LCS Sample Id: 694171-1-BKS — LCSD Sample Id: 694171-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.1	92	46.6	93	80-120	1	20	ug/L	06.21.15 14:23	
Toluene	<0.140	50.0	46.4	93	46.5	93	75-120	0	20	ug/L	06.21.15 14:23	
Ethylbenzene	<0.190	50.0	47.0	94	47.9	96	75-125	2	20	ug/L	06.21.15 14:23	
o-Xylene	<0.200	50.0	47.1	94	47.5	95	80-120	1	20	ug/L	06.21.15 14:23	
m,p-Xylenes	<0.510	100	93.0	93	93.5	94	75-130	1	20	ug/L	06.21.15 14:23	
Naphthalene	<0.220	50.0	46.0	92	47.6	95	55-140	3	20	ug/L	06.21.15 14:23	
Ethyl tert-butyl alcohol	<1.10	500	433	87	461	92	40-140	6	20	ug/L	06.21.15 14:23	
tert-Butyl alcohol	<1.00	500	498	100	544	109	65-135	9	20	ug/L	06.21.15 14:23	
tert-Amyl alcohol	<1.10	500	444	89	464	93	40-140	4	20	ug/L	06.21.15 14:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	101		97		101		53-159	%	06.21.15 14:23
4-Bromofluorobenzene	108		85		83		30-186	%	06.21.15 14:23
Toluene-D8	100		96		97		70-130	%	06.21.15 14:23

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970728 Matrix: Water Date Prep: 06.21.15

MB Sample Id: 694172-1-BLK LCS Sample Id: 694172-1-BKS LCSD Sample Id: 694172-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	42.9	86	44.3	89	80-120	3	20	ug/L	06.21.15 13:36	
Toluene	<0.140	50.0	45.8	92	45.8	92	75-120	0	20	ug/L	06.21.15 13:36	
Ethylbenzene	<0.190	50.0	50.4	101	51.2	102	75-125	2	20	ug/L	06.21.15 13:36	
o-Xylene	<0.200	50.0	50.1	100	51.2	102	80-120	2	20	ug/L	06.21.15 13:36	
m,p-Xylenes	<0.510	100	104	104	101	101	75-130	3	20	ug/L	06.21.15 13:36	
Methyl tert-butyl ether	<0.180	100	99.6	100	95.4	95	65-125	4	20	ug/L	06.21.15 13:36	
Naphthalene	<0.220	50.0	46.2	92	47.3	95	55-140	2	20	ug/L	06.21.15 13:36	
1,2-Dichloroethane	<0.180	50.0	54.3	109	54.0	108	70-130	1	20	ug/L	06.21.15 13:36	
Ethanol	<8.00	2000	1510	76	1560	78	65-135	3	20	ug/L	06.21.15 13:36	
Ethyl tert-butyl ether	<0.300	50.0	42.2	84	42.3	85	65-135	0	20	ug/L	06.21.15 13:36	
Diisopropyl ether	<0.0800	50.0	33.2	66	32.6	65	65-135	2	20	ug/L	06.21.15 13:36	
Ethyl tert-butyl alcohol	<1.10	500	296	59	324	65	40-140	9	20	ug/L	06.21.15 13:36	
tert-Butyl alcohol	<1.00	500	371	74	424	85	65-135	13	20	ug/L	06.21.15 13:36	
tert-Amyl methyl ether	<0.300	50.0	43.4	87	44.3	89	65-135	2	20	ug/L	06.21.15 13:36	
tert-Amyl alcohol	<1.10	500	448	90	365	73	40-140	20	20	ug/L	06.21.15 13:36	
tert-Butyl formate	<1.00	250	187	75	182	73	40-140	3	20	ug/L	06.21.15 13:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	121		113		111		53-159	%	06.21.15 13:36
4-Bromofluorobenzene	99		97		94		30-186	%	06.21.15 13:36
Toluene-D8	102		95		97		70-130	%	06.21.15 13:36

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970423 Matrix: Ground Water Date Prep: 06.16.15

Parent Sample Id: 509426-025 MS Sample Id: 509426-025 S MSD Sample Id: 509426-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.9	94	45.6	91	77-118	3	20	ug/L	06.16.15 22:32	
Toluene	<0.140	50.0	46.7	93	46.4	93	65-123	1	20	ug/L	06.16.15 22:32	
Ethylbenzene	<0.190	50.0	47.2	94	46.3	93	66-127	2	20	ug/L	06.16.15 22:32	
o-Xylene	<0.200	50.0	46.5	93	46.4	93	64-123	0	20	ug/L	06.16.15 22:32	
m,p-Xylenes	<0.510	100	91.8	92	90.1	90	65-126	2	20	ug/L	06.16.15 22:32	
Methyl tert-butyl ether	<0.180	100	92.4	92	91.4	91	58-141	1	20	ug/L	06.16.15 22:32	
Naphthalene	<0.220	50.0	44.5	89	46.4	93	30-148	4	20	ug/L	06.16.15 22:32	
1,2-Dichloroethane	<0.180	50.0	47.1	94	45.8	92	55-141	3	20	ug/L	06.16.15 22:32	
Ethanol	<8.00	2000	2600	130	2560	128	38-162	2	20	ug/L	06.16.15 22:32	
Ethyl tert-butyl ether	<0.300	50.0	47.4	95	45.8	92	66-135	3	20	ug/L	06.16.15 22:32	
Diisopropyl ether	<0.0800	50.0	49.3	99	47.0	94	59-148	5	20	ug/L	06.16.15 22:32	
Ethyl tert-butyl alcohol	<1.10	500	429	86	443	89	17-136	3	20	ug/L	06.16.15 22:32	
tert-Butyl alcohol	<1.00	500	616	123	619	124	65-135	0	20	ug/L	06.16.15 22:32	
tert-Amyl methyl ether	<0.300	50.0	45.2	90	45.0	90	56-136	0	20	ug/L	06.16.15 22:32	
tert-Amyl alcohol	<1.10	500	427	85	468	94	40-140	9	20	ug/L	06.16.15 22:32	
tert-Butyl formate	<1.00	500	238	48	230	46	25-148	3	20	ug/L	06.16.15 22:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	99		97		53-159	%	06.16.15 22:32
4-Bromofluorobenzene	99		99		30-186	%	06.16.15 22:32
Toluene-D8	96		98		70-130	%	06.16.15 22:32

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970687 Matrix: Ground Water Date Prep: 06.19.15

Parent Sample Id: 509580-001 MS Sample Id: 509580-001 S MSD Sample Id: 509580-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	141	50.0	199	116	197	112	77-118	1	20	ug/L	06.19.15 20:44	
Toluene	53.0	50.0	101	96	99.0	92	65-123	2	20	ug/L	06.19.15 20:44	
Ethylbenzene	790	50.0	822	64	808	36	66-127	2	20	ug/L	06.19.15 20:44	X
o-Xylene	530	50.0	543	26	538	16	64-123	1	20	ug/L	06.19.15 20:44	X
m,p-Xylenes	1690	100	1660	0	1630	0	65-126	2	20	ug/L	06.19.15 20:44	X
Methyl tert-butyl ether	<0.180	100	87.1	87	86.7	87	58-141	0	20	ug/L	06.19.15 20:44	
Naphthalene	536	50.0	551	30	561	50	30-148	2	20	ug/L	06.19.15 20:44	
1,2-Dichloroethane	<0.180	50.0	45.0	90	44.1	88	55-141	2	20	ug/L	06.19.15 20:44	
Ethanol	<8.00	2000	1990	100	2070	104	38-162	4	20	ug/L	06.19.15 20:44	
Ethyl tert-butyl ether	<0.300	50.0	43.9	88	42.9	86	66-135	2	20	ug/L	06.19.15 20:44	
Diisopropyl ether	<0.0800	50.0	38.6	77	37.8	76	59-148	2	20	ug/L	06.19.15 20:44	
Ethyl tert-butyl alcohol	167	500	627	92	652	97	17-136	4	20	ug/L	06.19.15 20:44	
tert-Butyl alcohol	<1.00	500	431	86	496	99	65-135	14	20	ug/L	06.19.15 20:44	
tert-Amyl methyl ether	<0.300	50.0	43.1	86	42.5	85	56-136	1	20	ug/L	06.19.15 20:44	
tert-Amyl alcohol	106	500	624	104	751	129	40-140	18	20	ug/L	06.19.15 20:44	
tert-Butyl formate	<1.00	250	91.1	36	<1.00	0	25-148	200	20	ug/L	06.19.15 20:44	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	91		92		53-159	%	06.19.15 20:44
4-Bromofluorobenzene	97		99		30-186	%	06.19.15 20:44
Toluene-D8	98		99		70-130	%	06.19.15 20:44

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 970698 Matrix: Ground Water Date Prep: 06.20.15
Parent Sample Id: 509580-023 MS Sample Id: 509580-023 S MSD Sample Id: 509580-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	40.5	81	41.2	82	77-118	2	20	ug/L	06.20.15 23:29	
Toluene	<0.140	50.0	41.8	84	41.7	83	65-123	0	20	ug/L	06.20.15 23:29	
Ethylbenzene	<0.190	50.0	44.5	89	44.8	90	66-127	1	20	ug/L	06.20.15 23:29	
o-Xylene	<0.200	50.0	44.2	88	44.9	90	64-123	2	20	ug/L	06.20.15 23:29	
m,p-Xylenes	<0.510	100	87.5	88	87.4	87	65-126	0	20	ug/L	06.20.15 23:29	
Methyl tert-butyl ether	<0.180	100	84.9	85	88.1	88	58-141	4	20	ug/L	06.20.15 23:29	
Naphthalene	<0.220	50.0	41.0	82	45.0	90	30-148	9	20	ug/L	06.20.15 23:29	
1,2-Dichloroethane	<0.180	50.0	48.8	98	48.5	97	55-141	1	20	ug/L	06.20.15 23:29	
Ethanol	<8.00	2000	1110	56	1160	58	38-162	4	20	ug/L	06.20.15 23:29	
Ethyl tert-butyl ether	<0.300	50.0	37.9	76	40.1	80	66-135	6	20	ug/L	06.20.15 23:29	
Diisopropyl ether	<0.0800	50.0	29.8	60	30.6	61	59-148	3	20	ug/L	06.20.15 23:29	
Ethyl tert-butyl alcohol	<1.10	500	282	56	298	60	17-136	6	20	ug/L	06.20.15 23:29	
tert-Butyl alcohol	<1.00	500	537	107	525	105	65-135	2	20	ug/L	06.20.15 23:29	
tert-Amyl methyl ether	<0.300	50.0	39.9	80	41.3	83	56-136	3	20	ug/L	06.20.15 23:29	
tert-Amyl alcohol	<1.10	500	381	76	396	79	40-140	4	20	ug/L	06.20.15 23:29	
tert-Butyl formate	<1.00	500	<1.00	0	<1.00	0	25-148	NC	20	ug/L	06.20.15 23:29	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	105		117		53-159	%	06.20.15 23:29
4-Bromofluorobenzene	96		99		30-186	%	06.20.15 23:29
Toluene-D8	100		101		70-130	%	06.20.15 23:29

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 970726 Matrix: Ground Water Date Prep: 06.21.15
Parent Sample Id: 509693-004 MS Sample Id: 509693-004 S MSD Sample Id: 509693-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	45.5	91	66.0	132	77-118	37	20	ug/L	06.21.15 23:04	XF
Toluene	<0.140	50.0	44.7	89	43.1	86	65-123	4	20	ug/L	06.21.15 23:04	
Ethylbenzene	<0.190	50.0	44.3	89	42.7	85	66-127	4	20	ug/L	06.21.15 23:04	
o-Xylene	<0.200	50.0	41.2	82	41.3	83	64-123	0	20	ug/L	06.21.15 23:04	
m,p-Xylenes	<0.510	100	80.6	81	78.9	79	65-126	2	20	ug/L	06.21.15 23:04	
Naphthalene	<0.220	50.0	44.7	89	44.6	89	30-148	0	20	ug/L	06.21.15 23:04	
Ethyl tert-butyl alcohol	<1.10	500	456	91	445	89	17-136	2	20	ug/L	06.21.15 23:04	
tert-Butyl alcohol	<1.00	500	743	149	744	149	65-135	0	20	ug/L	06.21.15 23:04	X
tert-Amyl alcohol	<1.10	500	516	103	671	134	40-140	26	20	ug/L	06.21.15 23:04	F

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	99		116		53-159	%	06.21.15 23:04
4-Bromofluorobenzene	95		95		30-186	%	06.21.15 23:04
Toluene-D8	96		95		70-130	%	06.21.15 23:04

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970728 Matrix: Ground Water Date Prep: 06.21.15

Parent Sample Id: 509580-004 MS Sample Id: 509580-004 S MSD Sample Id: 509580-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	3110	500	4050	188	3900	158	77-118	4	20	ug/L	06.21.15 23:51	X
Toluene	27.6	500	479	90	475	89	65-123	1	20	ug/L	06.21.15 23:51	
Ethylbenzene	754	500	1170	83	1150	79	66-127	2	20	ug/L	06.21.15 23:51	
o-Xylene	1680	500	1890	42	1830	30	64-123	3	20	ug/L	06.21.15 23:51	X
m,p-Xylenes	2620	1000	2990	37	2930	31	65-126	2	20	ug/L	06.21.15 23:51	X
Methyl tert-butyl ether	231	1000	1130	90	1130	90	58-141	0	20	ug/L	06.21.15 23:51	
Naphthalene	287	500	762	95	729	88	30-148	4	20	ug/L	06.21.15 23:51	
1,2-Dichloroethane	48.4	500	554	101	537	98	55-141	3	20	ug/L	06.21.15 23:51	
Ethanol	<80.0	20000	16300	82	16700	84	38-162	2	20	ug/L	06.21.15 23:51	
Ethyl tert-butyl ether	<3.00	500	418	84	435	87	66-135	4	20	ug/L	06.21.15 23:51	
Diisopropyl ether	<0.800	500	338	68	361	72	59-148	7	20	ug/L	06.21.15 23:51	
Ethyl tert-butyl alcohol	1040	5000	4100	61	3960	58	17-136	3	20	ug/L	06.21.15 23:51	
tert-Butyl alcohol	714	5000	6050	107	5580	97	65-135	8	20	ug/L	06.21.15 23:51	
tert-Amyl methyl ether	<3.00	500	444	89	441	88	56-136	1	20	ug/L	06.21.15 23:51	
tert-Amyl alcohol	3820	5000	6720	58	6960	63	40-140	4	20	ug/L	06.21.15 23:51	
tert-Butyl formate	<10.0	5000	456	9	426	9	25-148	7	20	ug/L	06.21.15 23:51	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	99		99		53-159	%	06.21.15 23:51
4-Bromofluorobenzene	103		98		30-186	%	06.21.15 23:51
Toluene-D8	98		98		70-130	%	06.21.15 23:51

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300492
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon
521 Clemson Rd Columbia, SC 29229
Results Sent to: Regan Norris
Email address: regan.norris@terracon.com
Contact Phone #: 803-741-4000 Cell#:
Project Name (Site): Eddie's Pit Stop
Project Number (ID): T3098106
Regulatory Program:

Receiver's Initials/Temp: DV / 2.1°C
Custody Seal(s): ___ Y N Lab Work Order # 509580
P.O.# (if required):
Field Comments / Lab Precautions:

Analysis Requested

Container Type: GC GC
Chemical Preservation Code: 1

Sampler(s): (signature) DW Zimmy
Sampler(s): (printed) David Lesesne

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA oxy	EDB
1	18871/MW-05		6-11-15/1600	GW		✓	4	2	2
2	18871/MW-01		6-11-15/1630	GW		✓	4	2	2
3	18871/MW-08		6-12-15/0730	GW		✓	4	2	2
4	18871/MW-20		6-12-15/0815	GW		✓	4	2	2
5	18871/MW-20 Duplicate		6-12-15/0815	GW		✓	4	2	2
6	18871/MW-21		6-12-15/0900	GW		✓	4	2	2
7	18871/MW-22		6-12-15/0930	GW		✓	4	2	2
8	18871/MW-10		6-12-15/1000	GW		✓	4	2	2
9	18871/Field Blank		6-12-15/1000	W			2	2	
10									

1) Relinquished By: Date / Time 6-12-15 2:40 pm
2) Received By: Date / Time 6/12/15 14:32
Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

3) Relinquished By: FedEx Date / Time
4) Received By: Date / Time 06/13/15 9:30
5) Relinquished By: Date / Time
6) Received By: Date / Time

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300505
Page _____ of _____
6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon	Receiver's Initials/Temp: DC / 2.1°C
521 Clemson Rd, Columbia, SC 29229	Custody Seal(s):___ Y N Lab Work Order # 509580
Results Sent to: Regan Norris	P.O.# (if required):
Email address: regan.norris@terracon.com	Field Comments / Lab Precautions:
Contact Phone #: 803-741-9000 Cell#:	
Project Name (Site): Eddie's Pit Stop	
Project Number (ID): 73098106	Container Type: GC GC
Regulatory Program:	Chemical Preservation Code: 1
Sampler(s): (signature)	Sampler(s): (printed) David Lesesne

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA OXY	EDB
1	18871/MW-20D		6-10-15/1545	GW		✓	4	2	2
2	18871/MW-21D		6-10-15/1615	GW		✓	4	2	2
3	18871/MW-22D		6-10-15/1645	GW		✓	4	2	2
4	18871/MW-16		6-10-15/0930	GW		✓	4	2	2
5	18871/MW-14		6-10-15/1015	GW		✓	4	2	2
6	18871/MW-19		6-10-15/1115	GW		✓	4	2	2
7	18871/MW-12		6-11-15/1300	GW		✓	4	2	2
8	18871/Field Blank		6-11-15/1330				2	2	
9	18871/MW-04		6-11-15/1430	GW		✓	4	2	2
10	18871/MW-04 Dup		6-11-15/1430	GW		✓	4	2	2

1) Relinquished By:	Date / Time 6-12-15 2:40pm	2) Received By: Date / Time 6/12/15 14:30
3) Relinquished By: FedEx	Date / Time	4) Received By: Date / Time 6/13/15 9:30
5) Relinquished By:	Date / Time	6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300482
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon	Receiver's Initials/Temp: JC / 2.1°C
521 Clemson Rd, Columbia, SC 29229	Custody Seal(s):___ Y N Lab Work Order # 509580
Results Sent to: Regan Norris	P.O.# (if required):
Email address: regan.norris@terracon.com	Field Comments / Lab Precautions:
Contact Phone #: 803-741-9000 Cell#:	
Project Name (Site): Eddies Pit Stop	
Project Number (ID): 73098106	Container Type: GC GC
Regulatory Program:	Chemical Preservation Code: 1
Sampler(s): (signature)	Sampler(s): (printed): David Lesesne

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA, EtOXY	EDB
1	18871 / PW-01		6-9-15 / 1445	GW		✓	4	2	2
2	18871 / Field Blank		6-9-15 / 1615				2	2	
3	18871 / MW-15D		6-9-15 / 1645	GW		✓	4	2	2
4	18871 / MW-15		6-9-15 / 1700	GW		✓	4	2	2
5	18871 / MW-17D		6-10-15 / 0945	GW		✓	4	2	2
6	18871 / Field Blank		6-10-15 / 1030	GW		✓	2	2	
7	18871 / MW-18D		6-10-15 / 1045	GW		✓	4	2	2
8	18871 / MW-19D		6-10-15 / 1200	GW		✓	4	2	2
9	18871 / MW-16D		6-10-15 / 1400	GW		✓	4	2	2
10	18871 / MW-08D		6-10-15 / 1500	GW		✓	4	2	2

1) Relinquished By:	Date / Time 6-12-15 2:40	2) Received By:	Date / Time 6/12/15 14:30
3) Relinquished By: Fedex	Date / Time	4) Received By:	Date / Time 06/13/15 9:30
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300464
Page _____ of _____
6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon	Receiver's Initials/Temp: MV / 2.1°C 509580
521 Clemson Road, Columbia SC 29229	Custody Seal(s):___ Y N Lab Work Order #
Results Sent to: Regan Norris	P.O.# (if required):
Email address: regan.norris@terracon.com	Field Comments / Lab Precautions:
Contact Phone #: 803-741-9000 Cell#:	
Project Name (Site): Eddie's Pit Stop	**Analysis Requested**
Project Number (ID): 73098106	Container Type: GC GC
Regulatory Program:	Chemical Preservation Code: 1

Sampler(s): (signature) DW Terrell

Sampler(s): (printed) David Lesesne

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA Oxy	EDB
1	18871 / MW-06		6-8-15 / 1600	GW		✓	4	2	2
2	18871 / MW-17		6-8-15 / 1645	GW		✓	4	2	2
3	18871 / Field Blank		6-8-15 / 1700				2	2	
4	18871 / MW-06		6-9-15 / 0915	GW		✓	4	2	2
5	18871 / MW-18		6-9-15 / 1000	GW		✓	4	2	2
6	18871 / MW-09		6-9-15 / 1045	GW		✓	4	2	2
7	18871 / MW-02		6-9-15 / 1120	GW		✓	4	2	2
8	18871 / MW-30		6-9-15 / 1130	GW		✓	4	2	2
9	18871 / MW-03		6-9-15 / 1200	GW		✓	4	2	2
10	18871 / MW-07		6-9-15 / 1250	GW		✓	4	2	2

1) Relinquished By:	Date / Time 6-12-15 2:40pm	2) Received By: Date / Time 6/12/15 1430
3) Relinquished By:	Date / Time 6-1	4) Received By: Date / Time 06/13/15 9:30
5) Relinquished By:	Date / Time	6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

FedEx Express Package US Airbill

FedEx Tracking Number 8047 7449 4140

Form ID No. 0215

1 From

Date

Sender's Name Phone

Company

CUSTODY SEAL

Address

(signature) Sample

City 12/15 Time Collected

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8047 7449 4140

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☐ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: TERRACON Co.

Date/ Time Received: 06/13/2015 09:30:00 AM

Work Order #: 509580

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**Yes**	One extra set of sample containers (2-HCL Vials and 2-Unpreserved vials) labeled as 1871/MW-11 not listed on COC. Missing containers in cooler upon receipt for sample# 033 (1871/MW-06)
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 06/13/2015

Checklist reviewed by: J. Derek Rounsley Date: 06/16/2015

APPENDIX G

Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	2 1 3 4 2

GENERATOR

5. Generator's Name and Mailing Address [illegible]

Generator's Site Address (if different than mailing address) [illegible] Exit Stop
Rt. 2, US Hwy 601 North
Bageland, SC

Generator's Phone: [illegible]

6. Transporter 1 Company Name: Terracon — 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-
803-926-0086 — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED MATERIAL 10471 - 1247	1	T T	140	G	
2.						
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
David Lesesne	[signature]	06	25	15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
David Lesesne	[signature]	06	25	15
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

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
Sanette Conley	[signature]	6	25	15

APPENDIX K

SCDHEC QAPP Contractors Checklist

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
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		

Explanation for missing or incomplete information

LETTER OF TRANSMITTAL

Terracon

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ms. Ashleigh Thrash
SCDHEC
Bureau of Land and Waste Management
UST Program
2600 Bull St.
Columbia, SC 29202

DATE 07/01/15	JOB NO. 73098106
RE: Eddie's Pit Stop, Pageland SC	
UST Permit # 18871	

WE ARE SENDING YOU **X Attached** ☐ **Under separate cover via** _____ the following items:

COPIES	DATE	NO.	DESCRIPTION
1	07/01/15		Report of Ground Water Assessment (CD)

UST JUL 14 2015 PROGRAM
UST DOCKETING 9466

THESE ARE TRANSMITTED as checked below:

☐ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ FOR BIDS DUE _____ 20__

☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections

☐ Resubmit ___ copies for approval
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints

REMARKS:

Attached is the Tier II report and the SUPERB invoice, sent to DHEC.

COPY TO: Mr. Tim Hunter/SCDOT

SIGNED: **Katie Layfield**

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ms. Ashleigh Thrash
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Bureau of Land and Waste Management
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COPY TO: Mr. Tim Hunter/SCDOT

SIGNED: **Katie Layfield**

If enclosures are not as noted, kindly notify us at once.

Report of Ground Water Assessment

Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina

UST PERMIT # 18871

June 30, 2015
Terracon Project No. 73098106

Prepared for:
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202

Prepared by:
Terracon Consultants, Inc.
Columbia, South Carolina

Offices Nationwide Established in 1965
Employee-Owned terracon.com
Terracon
Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

Terracon

June 30, 2015

Ms. Ashleigh Thrash
South Carolina Department of Health
and Environmental Control
Bureau of Land and Waste Management
UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: ***Report of Ground Water Assessment***
Eddies Pitt Stop
Route 2, US Highway 601 North, Pageland, South Carolina
UST Permit # 18871; C.A. 49943
Terracon Project No. 73098106

Dear Ms. Thrash:

On behalf of the South Carolina Department of Transportation, **Terracon Consultants, Inc.** is pleased to submit this Tier II Assessment Report for the Eddies Pitt Stop in Pageland, South Carolina. This report summarizes the results of the assessment activities and our conclusions and recommendations.

If you have any questions regarding the contents of this report, or if you need additional information, please contact us at (803) 741-9000.

Sincerely,

Terracon Consultants, Inc.
UST Contractor Certification No. 246

Katie Layfield
Environmental Scientist

P. Michael Hudgins, P.G.
Senior Hydrogeologist
S.C. Registration No. 1137

P. MICHAEL HUDGINS REGISTERED NO. 1137 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Attachment

cc: Tim Hunter/SCDOT

TABLE OF CONTENTS

REPORT OF GROUND WATER ASSESSMENT
Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

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1.3 Site Geology and Hydrogeology

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Ground Water Analytical Data – Oxygenates

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K SCDHEC QAPP Contractors Checklist

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) has completed a comprehensive ground water sampling at the Eddies Pitt Stop site located in Pageland, South Carolina. The purpose of this assessment was to determine the current ground water quality conditions from a reported underground storage tank (UST) release at the site. The work was performed in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Cost Agreement #49943 dated March 11, 2015, Annual Contractor Quality Assurance Plan (ACQAP) approved April 2, 2013, and Site Specific Work Plan (SSWP) received by SCDHEC from Terracon on February 2, 2015. This report includes a description of the activities performed during this assessment, along with our current findings, conclusions and recommendations.

1.1 Site Description

The site is bound to the east by US Highway 601 and the Carolina Country Convenience Store (UST 02261); to the south by agricultural land; to the west by the remainder of the former Eddie's Pit Stop property; and to the north by residential land. A topographic map showing the site location is presented as Figure 1.

The site is composed of a vacant gas station. The property is owned by South Carolina Department of Transportation (SCDOT).

Carolina Country Convenience Store (UST Permit # 02261) currently operates an UST system located approximately 150 feet east from the former Eddie's UST basin across Highway 601. According to the SCDHEC database, the site has a reported release dated September 30, 2008 and a confirmed clean up date of November 6, 2008.

A water well survey was conducted as part of this assessment. Two irrigation or water supply wells (PW-1 and PW-2) were observed within a ½ mile radius of the site. PW-1 is an unused well on the subject site. PW-2 is used as an irrigation supply well located offsite on the adjacent residential property (Casper residence). The site and surrounding area is serviced drinking water from a municipal water supply system.

1.2 Site History

The site has been defined as the area of the former USTs, which is now located within the SCDOT right-of-way of Highway 601. The right-of-way and US Highway 601 were expanded in 2001 as part of road improvements in Chesterfield County. Eddies Pitt Stop convenience store/gas station previously operated one 750 gallon and one 2,000 gallon gasoline UST. These USTs were abandoned by removal in August 2002, and a release was reported with the UST closure in

August 2002. Directives to conduct a Tier I and Tier II Assessments were issued by the SCDHEC in 2009 and 2012, respectively, which included installation of 22 shallow wells and 10 deep monitoring wells. A summary of the well construction and water level data is presented on Table 1. A site map with well locations and utilities is shown as Figure 2. Details of these assessments can be found in the previous assessment reports. The results of the previous assessments indicated:

- Ground water was encountered at depths generally ranging from 17 to 20 feet and is observed to flow radially toward the south at a calculated rate of 13 ft/yr;
- Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 14 shallow wells located in the vicinity of the USTs;
- Benzene and/or naphthalene were detected at concentrations above RBSLs in seven deep wells;
- 1,2-dibromoethane (EDB) was detected in two samples collected from and unused water supply well (PW-1) at concentrations above the laboratory reporting limits. 1,2-dichloroethane (1,2-DCA) was detected in the active irrigation supply well located on the adjacent property;
- The horizontal extent of the contaminants in the upper portion of the shallow aquifer downgradient from the former UST system was relatively defined by the monitoring well network;
- Elevated hydrocarbon levels were detected above RBSLs in four background monitoring wells. These detections may be associated with a potential separate release from the upgradient Carolina Convenience UST location (Permit #02261).
- Terracon recommended Aggressive Fluid Vapor Recover (AFVR) at this site for monitoring wells MW-1, MW-2 and MW-12.

On March 2015, based on the Tier II Assessment results, SCDHEC issued cost agreement # 49943 for a comprehensive ground water sampling. This report includes a summary of the field methods utilized along with the results of ground water elevation measurements, field and laboratory ground water analytical results, and our conclusions and recommendations.

1.3 Site Geology and Hydrogeology

The site is located within the Carolina Slate Belt terrain of the Lower Piedmont physiographic province. The Carolina Slate Belt province consists of weathered low grade metamorphic rocks

consisting of mixed gneiss; intermediate and felsic volcanic rocks; tuffaceous epiclastic rocks; and mafic and felsic volcanic rocks.

Surficial soils at the site included sands, silty/clayey sands, sandy silt, and saprolite. A thick sequence of low permeability clayey and silty sand was encountered beneath the site to depths ranging from approximately 15 to 30 feet across the site. Below this unit, partially weathered rock as hard clayey silt (saprolite) was encountered at depths ranging from 60 to 65 feet across the site, where air rotary was required for drilling, to the investigated depth of 98 feet.

Ground water occurs within the shallow aquifer under unconfined conditions. The depth to ground water in the study area ranged from approximately 8 to 20 feet during this assessment.

2.0 GROUND WATER SAMPLING

Water levels were recorded on June 8, 2015, and ground water samples were collected on June 8-12, 2015. Water levels were measured in all existing site monitoring wells using an electric oil/water level interface probe. Monitoring well MW-13 could not be gauged as access to the well was blocked by an abandoned car. A summary of the water level data is presented on Table 2. Potentiometric surface maps of the upper and lower portions of the shallow aquifer are included as Figures 5 and 5A, respectively.

Specific conductance, pH, and temperature were measured with a field calibrated YSI 1030 meter, and dissolved oxygen was recorded using an YSI 55 meter. The field parameters were recorded on Groundwater Sampling Logs. The Ground Water Sampling logs and equipment calibration logs are included in Appendix B.

Ground water samples were collected from 30 of the 31 monitoring wells. The monitoring wells were purged prior to sampling, and grab samples were collected from them using disposable polyethylene bailers dedicated to each well. Shallow wells were purged by bailer, and the deep wells and the unused water supply well WS-1 were purged with a submersible pump. Purge water generated during sampling was disposed of by Regulatory Solutions, Inc., Gaston, South Carolina. A copy of the disposal manifest is included in Appendix G.

Dissolved oxygen, specific conductance, pH, and temperature measurements were measured using calibrated field meters and recorded on Ground Water Sampling Logs, included in Appendix B. Samples were placed in an iced cooler and delivered along with chain of custody documentation to Xenco Laboratories in Norcross, Georgia for analysis of the following parameters:

Analysis	Method
Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) Methyl-tert-butyl-ether (MTBE) Naphthalene 1,2-dichloroethane (1,2-DCA) 8 Oxygenates	SW-846 8260B
1,2-dibromoethane (EDB)	SW-846 8011

Ground water analytical results are included in Table 3 (Petroleum Compounds) and Table 5 (Petroleum-Related Compounds). A copy of the analytical report is included in Appendix B.

This assessment also included collection and analysis of eight quality assurance (QA) samples as two duplicate samples, five field blanks and a trip blank in accordance with the approved QAPP. No discrepancies were noted with these QA sample analyses. Ground Water Analytical Data (Petroleum Compounds and Petroleum Additives) is summarized in Table 3. A copy of the laboratory analytical report is included in Appendix B.

3.0 ASSESSMENT RESULTS

Ground water occurs within the upper portion of the shallow aquifer under unconfined conditions at depths ranging from approximately 12 to 18 feet in the lower portion. Inspection of Figure 5 indicates the ground water flow direction in the upper portion of the shallow aquifer is in a radial pattern generally toward the southwest. Figure 5A indicates that the ground water flow direction in the lower portion of the shallow aquifer is generally toward the west.

Approximately 0.02 ft. of free product was measures in monitoring well MW-2. Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 7 of the 20 shallow monitoring wells. The highest petroleum hydrocarbon concentrations were detected in monitoring wells MW-1, MW-5 and MW-12, located in the area of Eddie's Pit Stop. Elevated hydrocarbon levels were detected above RBSLs in MW-10, MW-20, MW-21 and MW-22, the elevated levels in these monitoring wells may be associated with a separate release from the Carolina Convenience location (Permit #02261).

1,2 DCA was detected in ground water in seven wells at concentrations above RBSLs ranging from 22.3 ug/l to 173 ug/l. EDB was detected above the RBSL in six wells at concentrations ranging from 0.32 to 5.58 ug/l. Petroleum oxygenates t-butanol (TBA), and tert-amyl alcohol (TAA) were detected in two monitoring wells above Action Levels (Als) established by the SCDHEC.

The extent of impact in the lower portion of the shallow aquifer is not defined. Benzene and/or naphthalene was detected at concentrations above RBSLs in four of the ten deep wells (MW-3D, MW-15D, MW-16D and MW-18D) located north, northeast and southwest of the former USTs.

1,2 DCA was detected at a concentration below RBSLs in the sample collected from the water supply well PW-1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the results of our site assessment activities, the ground water beneath the site and adjacent properties have been impacted by free-phase and dissolved-phase hydrocarbons at concentrations above allowable levels. Free product was detected for the first time in any of the wells on-site, in monitoring well MW-2.

The horizontal extent of the contaminants in the upper portion of the shallow aquifer downgradient from the former UST system has been defined by the monitoring well network. Petroleum hydrocarbon compounds were detected above RBSLs for benzene, MtBE,1,2-DCA, and naphthalene in ground water samples collected from shallow wells located at the source area, northeast (MW-8) and southwest (MW-12) of the USTs. Further, the concentrations in four background wells exceeded RBSLs, suggesting a potential release from the offsite UST system (Carolina Convenience store, UST Permit #02261).

The vertical extent of impact in the lower portion of the shallow aquifer has not been defined. Benzene and/or naphthalene were detected at concentrations above RBSLs in four deep wells MW-3D, MW-15D, MW-16D and MW-18D located north, northeast and southwest of the former USTs. Contaminants have the potential to migrate faster through the fractures or other potential preferential pathways of the weathered rock material. Additional investigation is necessary to define the vertical extent of the hydrocarbon plume.

1,2 DCA was detected in the sample collected from an unused water supply well (PW-1) at concentrations above the laboratory reporting limits. These detections may represent the leading edge of the dissolved plume extending toward this well in the deep portion of the shallow aquifer. Periodic monitoring and sampling of the supply wells is recommended. Irrigation well PW-2 should be reactivated or otherwise made available for sample collection.

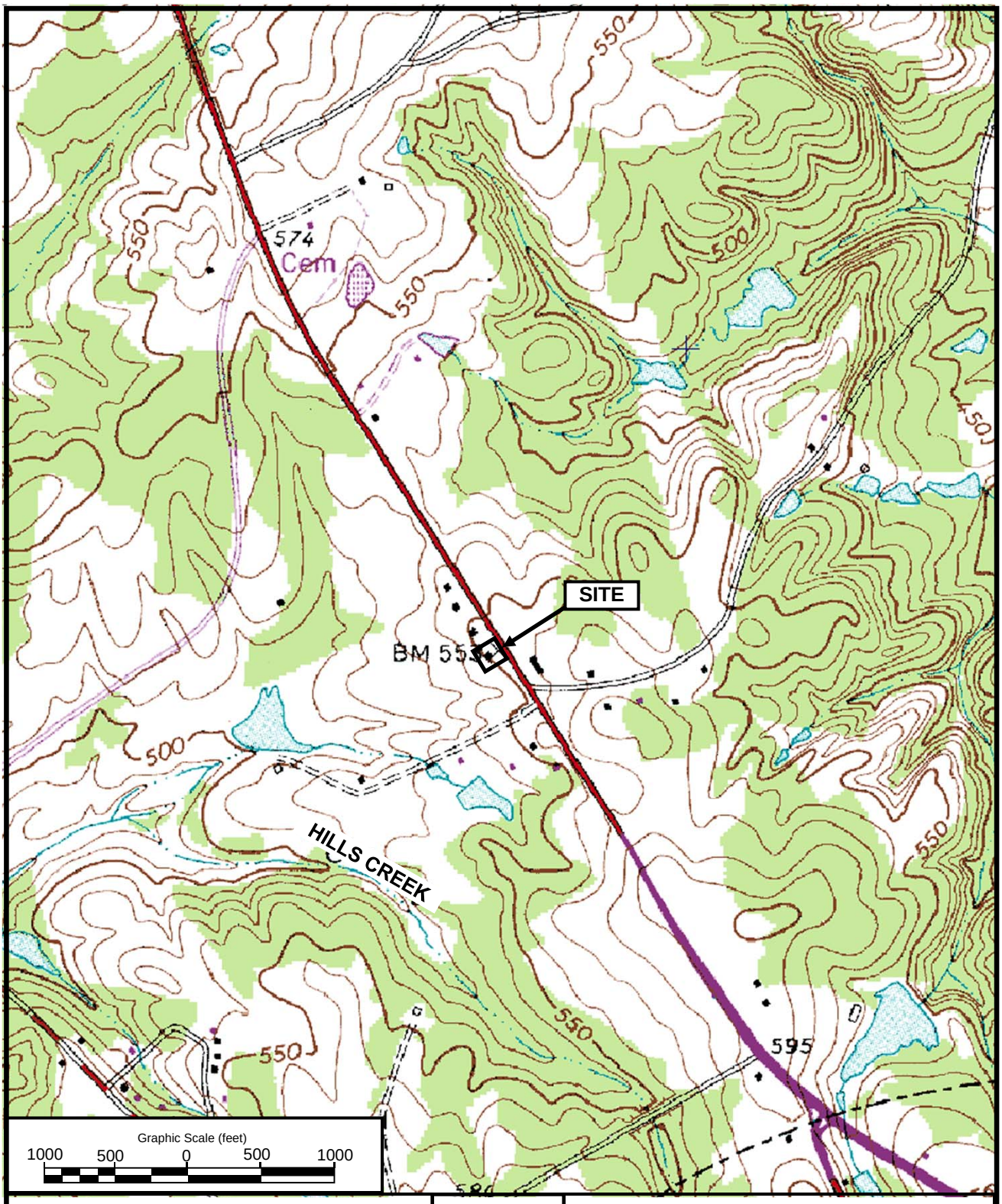
Efforts should be made with the property owner to provide access to monitoring well MW-13, as this is a critical downgradient sampling point used to define the extent of impact downgradient from the hydrocarbon plume.

Terracon also recommends Aggressive Fluid Vapor Recovery (AFVR) at this site. AFVR will remove free product from monitoring MW-2 and reduce high dissolved concentrations observed

in monitoring wells MW-1, MW-5 and MW-12, to limit further contaminant migration from the source area. Once the free product and high dissolved concentrations have been reduced, intrinsic corrective action may be an effective remedial method at this site. Terracon also recommends initiation of quarterly ground water sampling events to assess the potential for intrinsic biodegradation of petroleum compounds at the site.

FIGURES

Figure 1 – Site Location Map
Figure 2 – Site Map with Utilities
Figure 4 –COC Concentration Map of the Upper Portion of the Shallow Aquifer
Figure 4A – COC Concentration map of the Lower Portion of the Shallow Aquifer
Figure 5 – Potentiometric Surface Map of the Upper Portion of the Shallow Aquifer
Figure – 5A Potentiometric Surface Map of the Lower Portion of the Shallow Aquifer



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

DATE: 1993
SCALE: 1 INCH = 1000 FEET

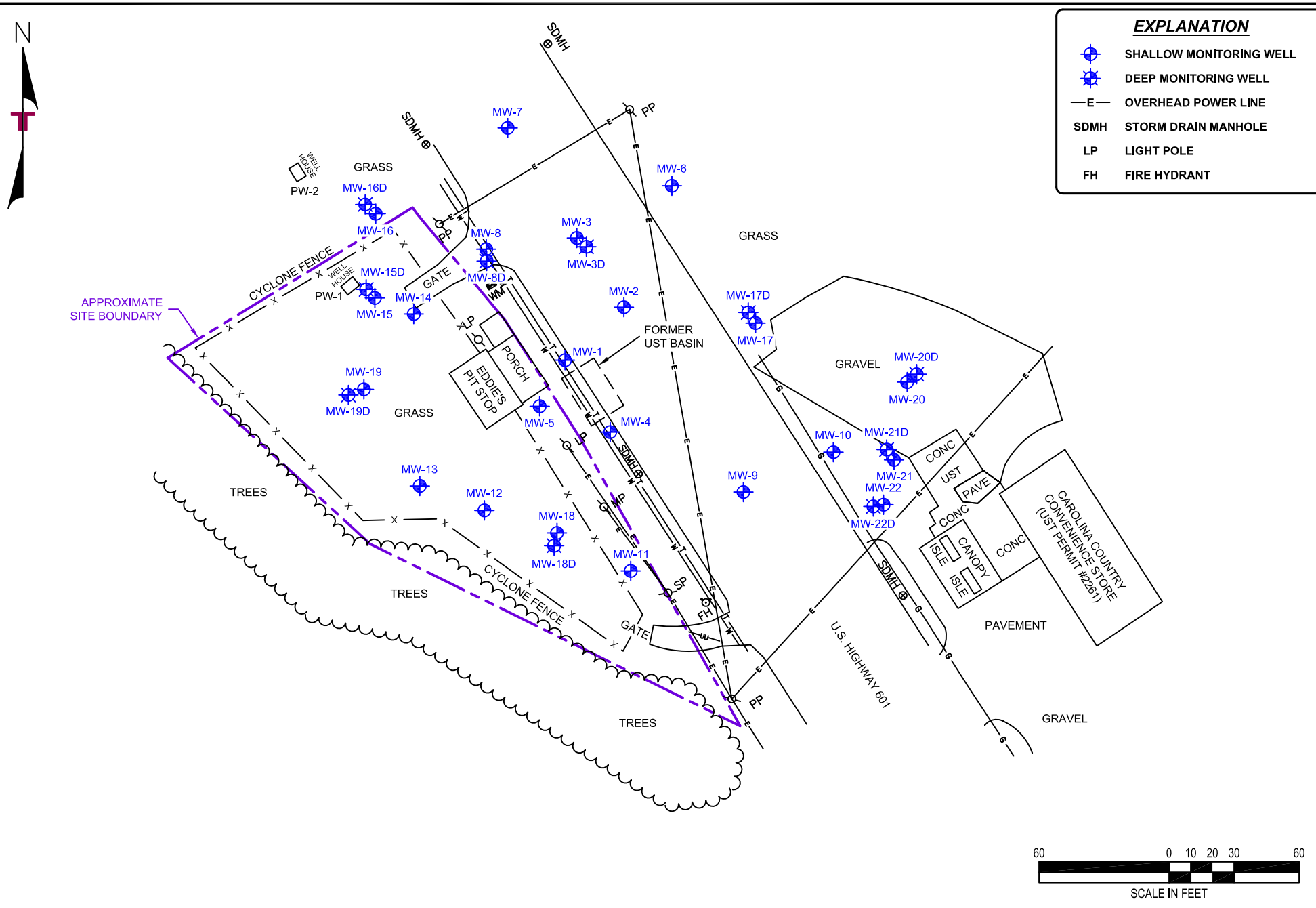
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	JUNE 2015

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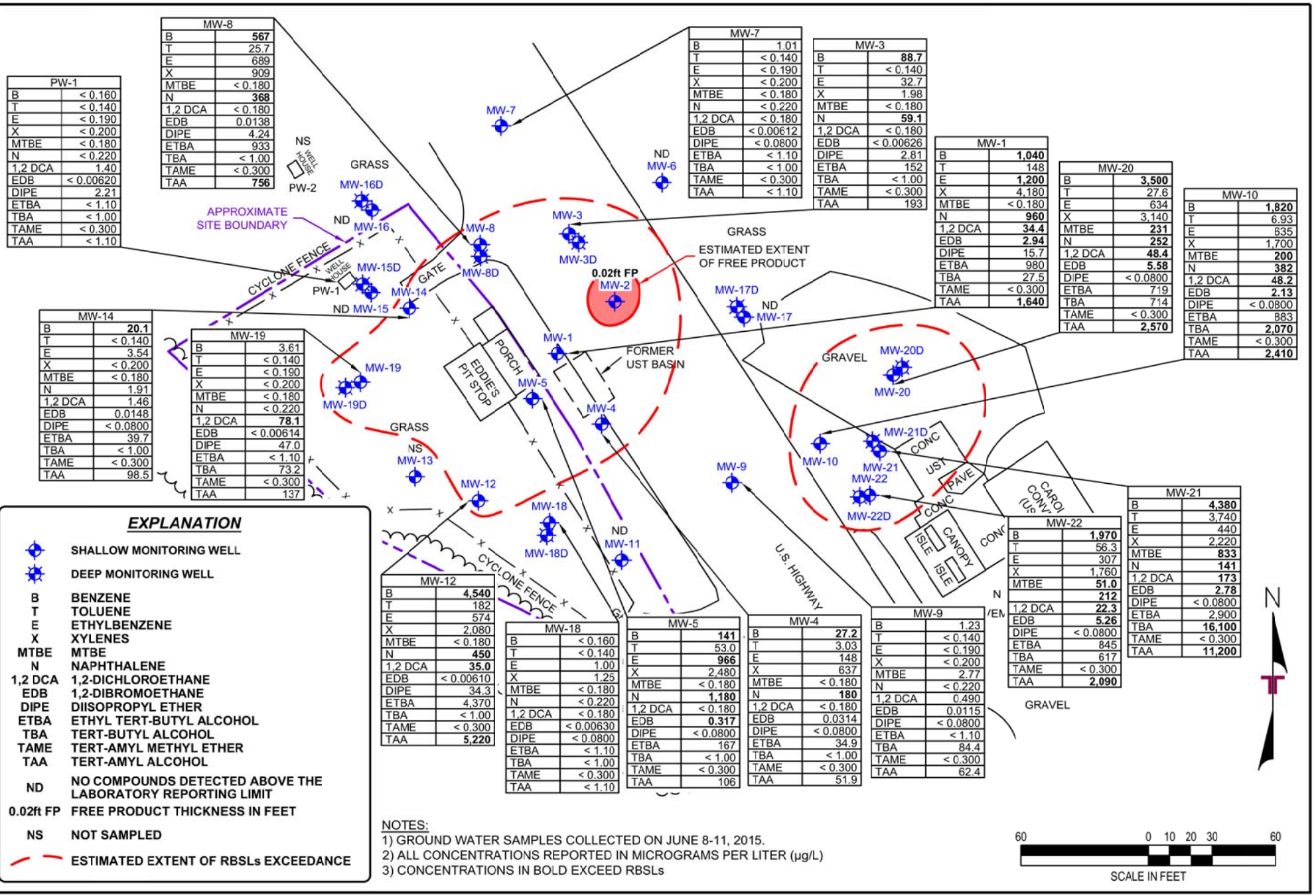
SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 2



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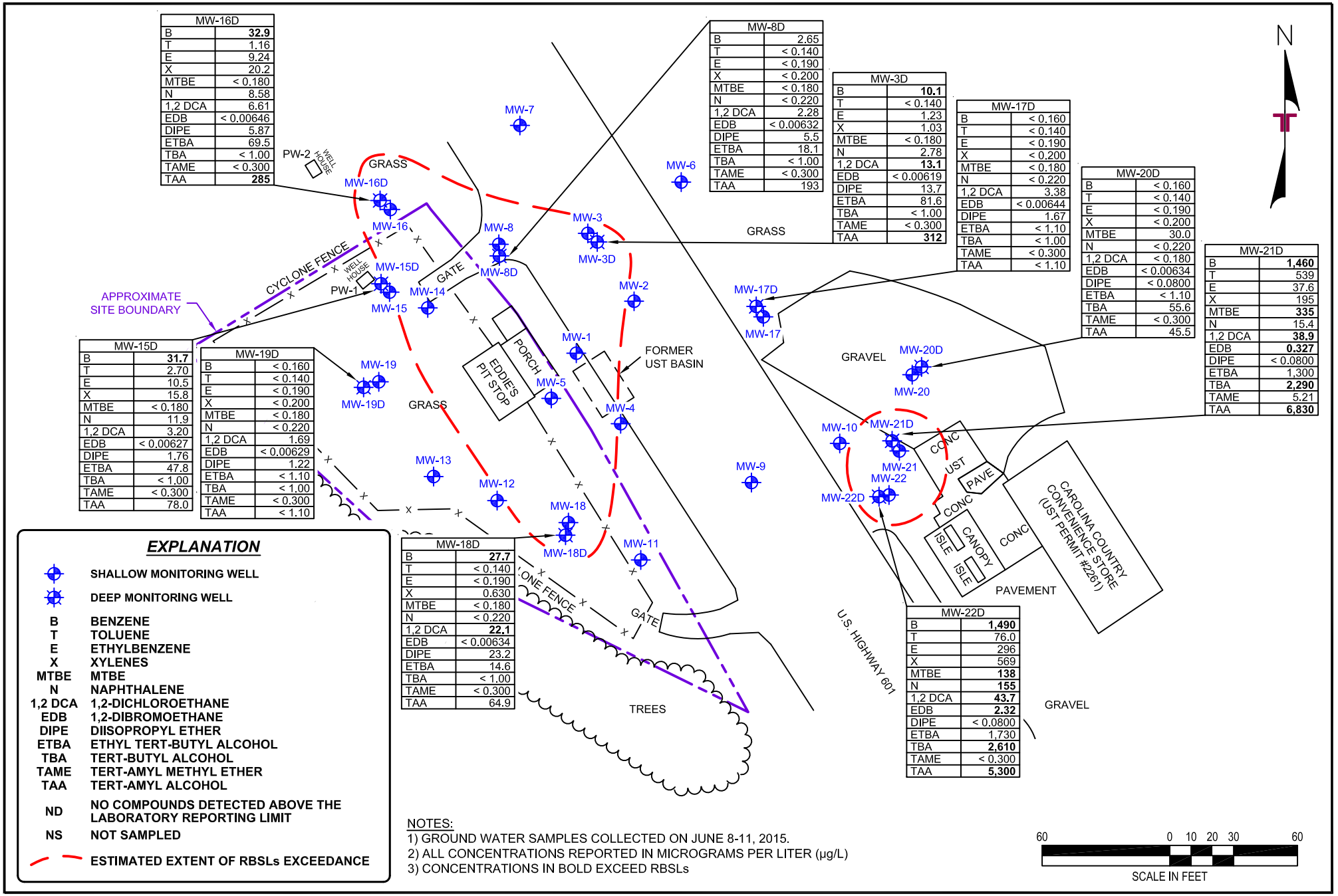
COC CONCENTRATION MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 4



Project Mngr:	RWN
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Project No.	73098106
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File No.	73098106
Date:	JUNE 2015

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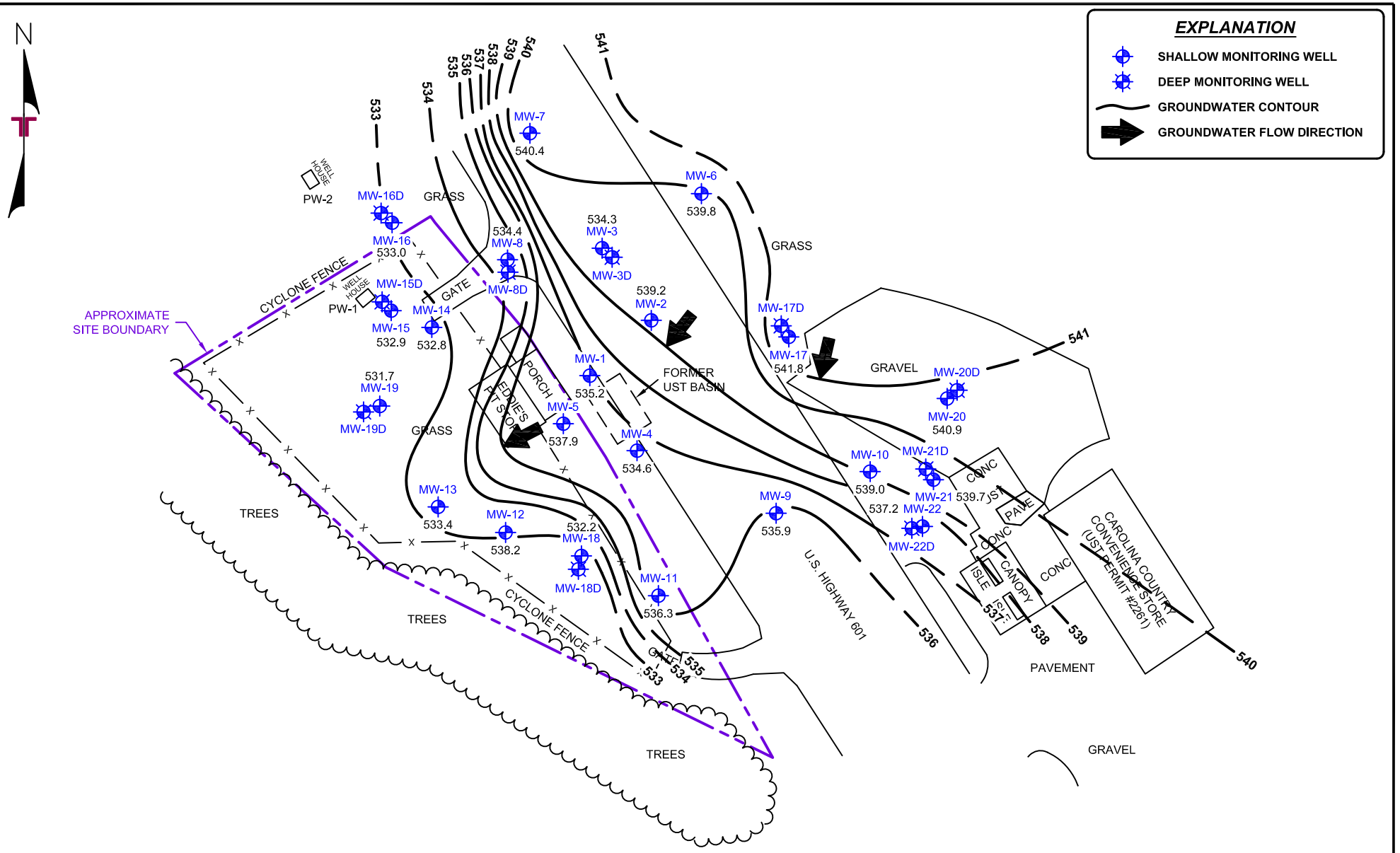
COC CONCENTRATION MAP OF THE LOWER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 4A



NOTE:
1) GROUNDWATER ELEVATIONS WERE RECORDED ON JUNE 8, 2015.
2) MONITORING WELLS MW-1, MW-14, AND MW-22 WERE SCREENED WITHIN THE LOWER PORTION OF THE SHALLOW AQUIFER. THEREFORE THE GROUNDWATER ELEVATIONS WERE NOT USED DURING CONTOURING.
3) GROUNDWATER ELEVATIONS AT MONITORING WELLS MW-15 AND MW-16 APPEAR ANOMALOUS AND WERE NOT USED IN CONTOURING.

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
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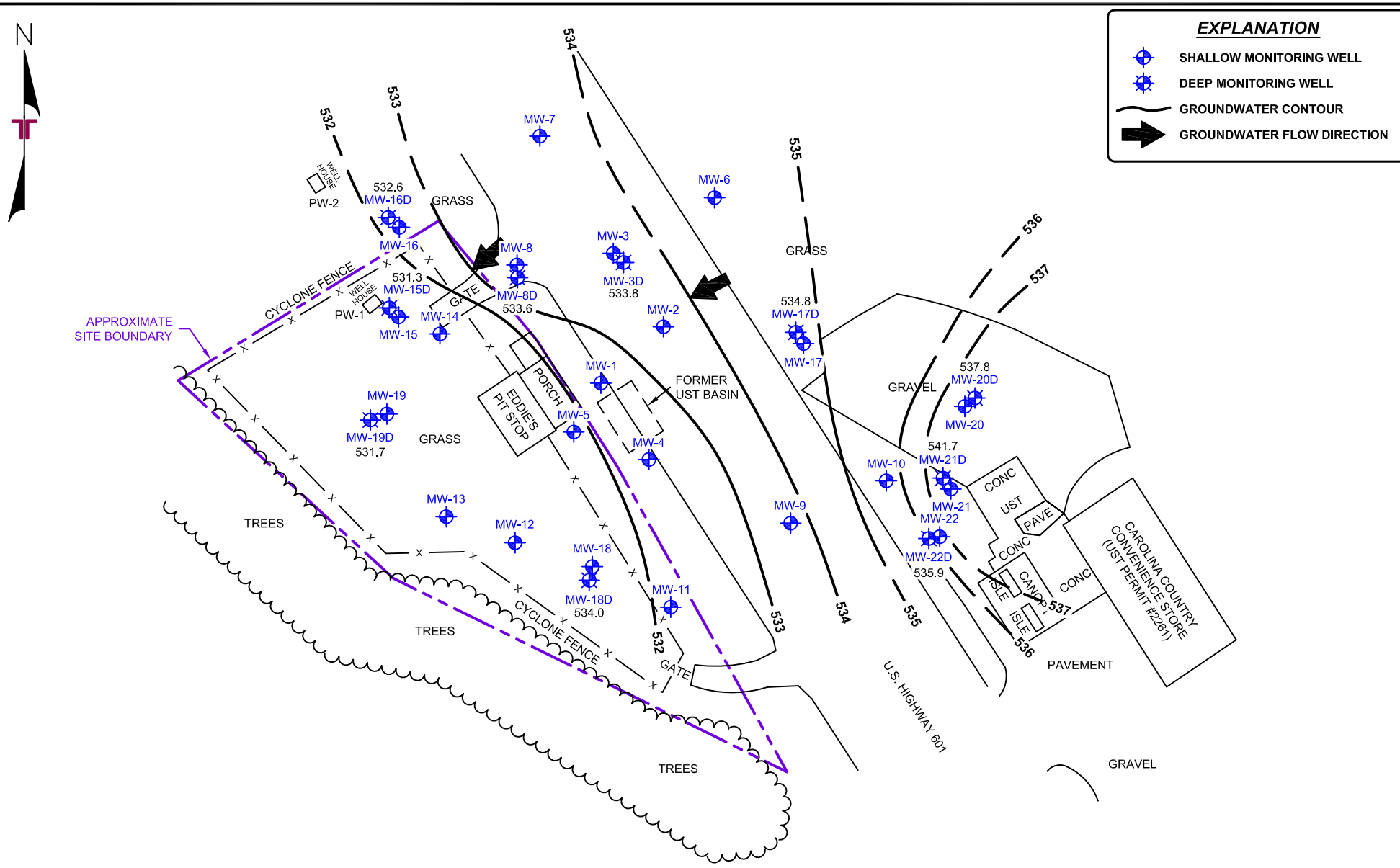
POTENTIOMETRIC SURFACE MAP OF THE UPPER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 5



NOTE:
1) GROUNDWATER ELEVATIONS WERE RECORDED ON JUNE 8, 2015.
2) GROUNDWATER ELEVATION AT DEEP MONITORING WELL MW-12D WAS NOT USED IN CONTOURING.

Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	JUNE 2015

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POTENTIOMETRIC SURFACE MAP OF THE LOWER PORTION OF THE SHALLOW AQUIFER

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 5A

TABLES

Table 2 – Ground Water Elevation Data
Table 3 – Ground Water Analytical Data, Petroleum Compound
Ground Water Analytical Data, Petroleum Additives

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-1	5/20/03	43	33- 43	298.85	35.70	--	263.15
	5/11/09				19.35	--	279.50
	9/8/11				36.70	--	262.15
	1/6/12				34.63	--	264.22
	3/27/12				26.21	--	272.64
	4/4/12			554.13	25.80	--	528.33
	7/18/12				31.00	--	523.13
	6/8/15				18.94	--	535.19
MW-2	5/11/09	43	28-43	298.98	17.25	--	281.73
	7/7/11				25.85	--	273.13
	8/22/11				31.82	--	267.16
	9/8/11				33.10	--	265.88
	1/6/12				31.91	--	267.07
	3/27/12				23.25	--	275.73
	4/4/12			554.18	23.65	--	530.53
	7/18/12				27.52	--	526.66
	6/8/15				14.97	0.02	539.23
MW-3	5/11/09	45	30-45	298.36	19.20	--	279.16
	9/8/11				36.28	--	262.08
	1/6/12				35.45	--	262.91
	3/27/12				31.74	--	266.62
	4/4/12			553.62	28.89	--	524.73
	7/18/12				30.10	--	523.52
	6/8/15				19.29	--	534.33

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-3D	9/8/11	60	55-60	298.51	25.19*	--	273.32
	1/5/12				35.12	--	263.39
	3/27/12				28.90	--	269.61
	4/4/12			553.74	29.48	--	524.26
	7/18/12				30.50	--	523.24
	6/8/15				19.98	--	533.76
MW-4	5/11/09	49	34-49	299.29	20.16	--	279.13
	9/8/11				37.20	--	262.09
	1/6/12				35.79	--	263.50
	3/27/12				27.85	--	271.44
	4/4/12			554.56	27.90	--	526.66
	7/18/12				32.13	--	522.43
	6/8/15				19.95	--	534.61
MW-5	8/9/10	25	15 - 25	296.16	17.35	--	278.81
	7/7/11				23.10	--	273.06
	8/22/11				24.92	--	271.24
	9/8/11				24.91	--	271.25
	1/6/12				24.36	--	271.80
	3/27/12				20.22	--	275.94
	4/4/12			551.42	19.79	--	531.63
	7/18/12				23.46	--	527.96
	6/8/15				13.53	--	537.89
MW-6	8/23/11	35	25-35	298.58	Dry	Dry	Dry
	8/30/11				30.30	--	268.28
	9/8/11				28.45	--	270.13
	1/6/12				24.43	--	274.15
	3/27/12				19.21	--	279.37
	4/4/12			553.79	18.05	--	535.74
	7/18/12				20.90	--	532.89
	6/8/15				13.95	--	539.84

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-7	8/25/11	35	24-34	298.18	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.40	--	264.78
	1/6/12				32.39	--	265.79
	3/27/12				29.95	--	268.23
	4/4/12			553.42	28.02	--	525.40
	7/18/12				25.16	--	528.26
	6/8/15				13.06	--	540.36
MW-8	8/29/11	35	25-35	297.5	Dry	Dry	Dry
	9/8/11				Dry	Dry	Dry
	1/6/12				32.85	--	264.65
	3/27/12				27.32	--	270.18
	4/4/12			552.76	27.05	--	525.71
	7/18/12				28.91	--	523.85
	6/8/15				18.33	--	534.43
MW-8D	9/8/11	60	55-60	297.35	25.35*	--	272.00
	1/5/12				34.24	--	263.11
	3/27/12				26.12	--	271.23
	4/4/12			552.53	26.07	--	526.46
	7/18/12				31.30	--	521.23
	6/8/15				18.93	--	533.60
MW-9	8/26/11	35	24-34	299.74	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.93	--	265.81
	1/6/12				33.60	--	266.14
	3/27/12				30.65	--	269.09
	4/4/12			554.89	29.12	--	525.77
	7/18/12				29.89	--	525.00
	6/8/15				18.96	--	535.93

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-10	8/27/11	35	25-35	299.54	Dry	Dry	Dry
	9/8/11				34.40	--	265.14
	1/6/12				34.50	--	265.04
	3/27/12				24.57	--	274.97
	4/4/12			554.79	24.79	--	530.00
	7/18/12				28.71	--	526.08
	6/8/15				15.82	--	538.97
MW-11	1/6/12	35	19.5-34.5	293.42	32.00	--	261.42
	3/27/12				21.35	--	272.07
	4/4/12			548.76	21.50	--	527.26
	7/18/12				26.40	--	522.36
	6/8/15				12.49	--	536.27
MW-12	1/6/12	35	20-35	290.46	26.05	--	264.41
	3/27/12				17.69	--	272.77
	4/4/12			545.68	21.50	--	524.18
	7/18/12				23.18	--	522.50
	6/8/15				7.47	--	538.21
MW-13	1/6/12	35	20-35	289.98	27.90	--	262.08
	3/27/12				17.45	--	272.53
	4/4/12			545.2	16.90	--	528.30
	7/18/12				22.32	--	522.88
	6/8/15				11.81	--	533.39
MW-14	1/6/12	35	20-35	291.24	30.72	--	260.52
	3/27/12				19.34	--	271.90
	4/4/12			546.48	20.76	--	525.72
	7/18/12				22.52	--	523.96
	6/8/15				13.71	--	532.77
MW-15	4/4/12	32	17-32	545.77	25.45	--	520.32
	7/18/12				23.52	--	522.25
	6/8/15				12.88	--	532.89
MW-15D	4/4/12	60	55-60	545.89	18.11	--	527.78
	7/18/12				23.86	--	522.03
	6/8/15				14.60	--	531.29

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-16	4/4/12	32	17-32	546.47	19.02	--	527.45
	7/18/12				24.20	--	522.27
	6/8/15				13.50	--	532.97
MW-16D	4/4/12	60	55-60	546.59	19.70	--	526.89
	7/18/12				24.47	--	522.12
	6/8/15				13.95	--	532.64
MW-17	4/4/12	35	20-35	554.33	20.39	--	533.94
	7/18/12				21.53	--	532.80
	6/8/15				12.58	--	541.75
MW-17D	4/4/12	60	55-60	554.3	27.54	--	526.76
	7/18/12				31.37	--	522.93
	6/8/15				19.50	--	534.80
MW-18	4/4/12	32	17-32	546.56	19.65	--	526.91
	7/18/12				23.90	--	522.66
	6/8/15				14.38	--	532.18
MW-18D	4/4/12	60	55-60	546.27	19.17	--	527.10
	7/18/12				23.17	--	523.10
	6/8/15				12.26	--	534.01
MW-19	4/4/12	32	17.5-27.5	544.53	18.50	--	526.03
	7/18/12				22.53	--	522.00
	6/8/15				12.88	--	531.65
MW-19D	4/4/12	60	55-60	544.11	16.20	--	527.91
	7/18/12				22.41	--	521.70
	6/8/15				12.41	--	531.70
MW-20	7/18/12	35	25-35	556.55	27.02	--	529.53
	6/8/15				15.63	--	540.92
MW-20D	7/18/12	60	55-60	556.66	33.31	--	523.35
	6/8/15				18.86	--	537.80
MW-21	7/18/12	35	25-35	555.73	24.72	--	531.01
	6/8/15				16.04	--	539.69
MW-21D	7/18/12	60	55-60	555.75	32.83	--	522.92
	6/8/15				14.09	--	541.66
MW-22	7/18/12	35	25-35	555.29	31.34	--	523.95
	6/8/15				18.11	--	537.18
MW-22D	7/18/12	60	55-60	554.98	32.23	--	522.75
	6/8/15				19.10	--	535.88

Notes:
1) Top pf casing elevations surveyed by Terracon personnel
2) * - Maybe altered by drilling fluid and poor development

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-1	5/20/03	43	33- 43	298.85	35.70	--	263.15
	5/11/09				19.35	--	279.50
	9/8/11				36.70	--	262.15
	1/6/12				34.63	--	264.22
	3/27/12				26.21	--	272.64
	4/4/12			554.13	25.80	--	528.33
	7/18/12				31.00	--	523.13
	6/8/15				18.94	--	535.19
MW-2	5/11/09	43	28-43	298.98	17.25	--	281.73
	7/7/11				25.85	--	273.13
	8/22/11				31.82	--	267.16
	9/8/11				33.10	--	265.88
	1/6/12				31.91	--	267.07
	3/27/12				23.25	--	275.73
	4/4/12			554.18	23.65	--	530.53
	7/18/12				27.52	--	526.66
	6/8/15				14.97	0.02	539.23
MW-3	5/11/09	45	30-45	298.36	19.20	--	279.16
	9/8/11				36.28	--	262.08
	1/6/12				35.45	--	262.91
	3/27/12				31.74	--	266.62
	4/4/12			553.62	28.89	--	524.73
	7/18/12				30.10	--	523.52
	6/8/15				19.29	--	534.33

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-3D	9/8/11	60	55-60	298.51	25.19*	--	273.32
	1/5/12				35.12	--	263.39
	3/27/12				28.90	--	269.61
	4/4/12			553.74	29.48	--	524.26
	7/18/12				30.50	--	523.24
	6/8/15				19.98	--	533.76
MW-4	5/11/09	49	34-49	299.29	20.16	--	279.13
	9/8/11				37.20	--	262.09
	1/6/12				35.79	--	263.50
	3/27/12				27.85	--	271.44
	4/4/12			554.56	27.90	--	526.66
	7/18/12				32.13	--	522.43
	6/8/15				19.95	--	534.61
MW-5	8/9/10	25	15 - 25	296.16	17.35	--	278.81
	7/7/11				23.10	--	273.06
	8/22/11				24.92	--	271.24
	9/8/11				24.91	--	271.25
	1/6/12				24.36	--	271.80
	3/27/12				20.22	--	275.94
	4/4/12			551.42	19.79	--	531.63
	7/18/12				23.46	--	527.96
	6/8/15				13.53	--	537.89
MW-6	8/23/11	35	25-35	298.58	Dry	Dry	Dry
	8/30/11				30.30	--	268.28
	9/8/11				28.45	--	270.13
	1/6/12				24.43	--	274.15
	3/27/12				19.21	--	279.37
	4/4/12			553.79	18.05	--	535.74
	7/18/12				20.90	--	532.89
	6/8/15				13.95	--	539.84

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-7	8/25/11	35	24-34	298.18	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.40	--	264.78
	1/6/12				32.39	--	265.79
	3/27/12				29.95	--	268.23
	4/4/12			553.42	28.02	--	525.40
	7/18/12				25.16	--	528.26
	6/8/15				13.06	--	540.36
MW-8	8/29/11	35	25-35	297.5	Dry	Dry	Dry
	9/8/11				Dry	Dry	Dry
	1/6/12				32.85	--	264.65
	3/27/12				27.32	--	270.18
	4/4/12			552.76	27.05	--	525.71
	7/18/12				28.91	--	523.85
	6/8/15				18.33	--	534.43
MW-8D	9/8/11	60	55-60	297.35	25.35*	--	272.00
	1/5/12				34.24	--	263.11
	3/27/12				26.12	--	271.23
	4/4/12			552.53	26.07	--	526.46
	7/18/12				31.30	--	521.23
	6/8/15				18.93	--	533.60
MW-9	8/26/11	35	24-34	299.74	Dry	Dry	Dry
	8/30/11				Dry	Dry	Dry
	9/8/11				33.93	--	265.81
	1/6/12				33.60	--	266.14
	3/27/12				30.65	--	269.09
	4/4/12			554.89	29.12	--	525.77
	7/18/12				29.89	--	525.00
	6/8/15				18.96	--	535.93

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-10	8/27/11	35	25-35	299.54	Dry	Dry	Dry
	9/8/11				34.40	--	265.14
	1/6/12				34.50	--	265.04
	3/27/12				24.57	--	274.97
	4/4/12			554.79	24.79	--	530.00
	7/18/12				28.71	--	526.08
	6/8/15				15.82	--	538.97
MW-11	1/6/12	35	19.5-34.5	293.42	32.00	--	261.42
	3/27/12				21.35	--	272.07
	4/4/12			548.76	21.50	--	527.26
	7/18/12				26.40	--	522.36
	6/8/15				12.49	--	536.27
MW-12	1/6/12	35	20-35	290.46	26.05	--	264.41
	3/27/12				17.69	--	272.77
	4/4/12			545.68	21.50	--	524.18
	7/18/12				23.18	--	522.50
	6/8/15				7.47	--	538.21
MW-13	1/6/12	35	20-35	289.98	27.90	--	262.08
	3/27/12				17.45	--	272.53
	4/4/12			545.2	16.90	--	528.30
	7/18/12				22.32	--	522.88
	6/8/15				11.81	--	533.39
MW-14	1/6/12	35	20-35	291.24	30.72	--	260.52
	3/27/12				19.34	--	271.90
	4/4/12			546.48	20.76	--	525.72
	7/18/12				22.52	--	523.96
	6/8/15				13.71	--	532.77
MW-15	4/4/12	32	17-32	545.77	25.45	--	520.32
	7/18/12				23.52	--	522.25
	6/8/15				12.88	--	532.89
MW-15D	4/4/12	60	55-60	545.89	18.11	--	527.78
	7/18/12				23.86	--	522.03
	6/8/15				14.60	--	531.29

TABLE 3
GROUND WATER MONITORING WELL ELEVATION DATA

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	TOTAL WELL DEPTH (ft., bgs)	SCREENED INTERVAL (ft., bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-16	4/4/12	32	17-32	546.47	19.02	--	527.45
	7/18/12				24.20	--	522.27
	6/8/15				13.50	--	532.97
MW-16D	4/4/12	60	55-60	546.59	19.70	--	526.89
	7/18/12				24.47	--	522.12
	6/8/15				13.95	--	532.64
MW-17	4/4/12	35	20-35	554.33	20.39	--	533.94
	7/18/12				21.53	--	532.80
	6/8/15				12.58	--	541.75
MW-17D	4/4/12	60	55-60	554.3	27.54	--	526.76
	7/18/12				31.37	--	522.93
	6/8/15				19.50	--	534.80
MW-18	4/4/12	32	17-32	546.56	19.65	--	526.91
	7/18/12				23.90	--	522.66
	6/8/15				14.38	--	532.18
MW-18D	4/4/12	60	55-60	546.27	19.17	--	527.10
	7/18/12				23.17	--	523.10
	6/8/15				12.26	--	534.01
MW-19	4/4/12	32	17.5-27.5	544.53	18.50	--	526.03
	7/18/12				22.53	--	522.00
	6/8/15				12.88	--	531.65
MW-19D	4/4/12	60	55-60	544.11	16.20	--	527.91
	7/18/12				22.41	--	521.70
	6/8/15				12.41	--	531.70
MW-20	7/18/12	35	25-35	556.55	27.02	--	529.53
	6/8/15				15.63	--	540.92
MW-20D	7/18/12	60	55-60	556.66	33.31	--	523.35
	6/8/15				18.86	--	537.80
MW-21	7/18/12	35	25-35	555.73	24.72	--	531.01
	6/8/15				16.04	--	539.69
MW-21D	7/18/12	60	55-60	555.75	32.83	--	522.92
	6/8/15				14.09	--	541.66
MW-22	7/18/12	35	25-35	555.29	31.34	--	523.95
	6/8/15				18.11	--	537.18
MW-22D	7/18/12	60	55-60	554.98	32.23	--	522.75
	6/8/15				19.10	--	535.88

Notes:
1) Top pf casing elevations surveyed by Terracon personnel
2) * - Maybe altered by drilling fluid and poor development

TABLE 3
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	XYLENES (µg/L)	MTBE (µg/L)	NAPHTH-ALENE (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	Total Lead (µg/L)
RBSLs	--	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*5.0*	*0.05*	*15*
MW-1	5/11/09	**3,250**	265	**1,580**	5,160	< 3.89	**841**	NA	**1.66**	12 *B*
	1/6/12	**3,020**	722	**1,080**	7,510	< 4.20	**773**	**57.5**	**2.91**	< 2.8
	4/5/12	**2,740**	378	**1,940**	9,660	< 3.36	**1,122**	**73.7**	**0.68**	< 2.8
	7/19/12	**2,520**	295	**1,280**	5,710	< 1.21	**663**	**60.9**	**0.986**	< 2.8
	6/11/15	**1,040**	148	**1,200**	4,180	< 0.180	**960**	**34.4**	**2.94**	NA
MW-2	5/11/09	**2,290**	73.6	699	2,140	< 1.94	**186**	NA	**0.385**	3.3
	1/6/12	**4,210**	262	**1,390**	6,280	< 3.36	**968**	**113**	**1.02**	< 2.8
	4/5/12	**2,740**	378	**1,940**	9,660	< 3.36	**1,120**	**73.7**	**0.682**	< 2.8
	7/17/12	**3,940**	146	**1,100**	4,250	< 1.51	**604**	**122**	**0.210**	1.1J
	6/8/15	**0.02ft. OF FREE PRODUCT**								
MW-3	5/11/09	**290**	63.5	154	217	< 0.194	**39.6**	NA	< 0.0035	**27**
	1/6/12	**138**	< 0.155	47.2	40.9	< 0.168	**105**	< 0.242	< 0.0032	< 2.8
	4/5/12	**148**	1.16	40.7	< 0.176	< 0.084	**73**	< 0.121	< 0.0029	13.0 J
	7/17/12	**91.6**	0.408J	48.9	5.71	< 0.06	**74.6**	1.26	< 0.0029	< 0.28
	6/9/15	**88.7**	< 0.140	32.7	1.98	< 0.180	**59.1**	< 0.180	< 0.00626	NA
MW-3D	1/5/12	**165**	< 0.388	42.3	20.1	< 0.42	**56.7**	**23.7**	< 0.0032	**65**
	4/5/12	**405**	10.7	115	83.3	< 0.42	**73**	**28**	< 0.0029	**64**
	7/17/12	**248**	4.08J	71.9	43.6	< 0.302	**51.2**	**24.3**	< 0.0029	5.3
	6/9/15	**10.1**	< 0.140	1.23	1.03	< 0.180	2.78	**13.1**	< 0.00619	NA
MW-4	5/11/09	**75.8**	< 0.082	14	200	1.16	16.7	NA	0.042	14 B
	1/6/12	**324**	< 0.155	32.6	437	< 0.168	**126**	< 0.242	0.077	< 2.8
	4/5/12	**98.3**	< 0.078	26.6	71.6	< 0.084	**94.4**	< 0.121	< 1.11	6.6 J
	7/18/12	**263**	< 0.254	83.7	361	< 0.121	**146**	4.97	0.033	< 2.8
	6/11/15	**27.2**	3.03	148	637	< 0.180	**180**	< 0.180	0.0314	NA
MW-4 Dup	6/11/15	**33.1**	3.67	146	771	< 0.180	**187**	< 0.180	0.0259	NA
MW-5	8/9/10	**166**	44.4	539	1,070	< 0.517	**307**	NA	**0.269**	3.4 B
	1/6/12	**125**	25.7	630	1,260	< 0.839	**334**	< 1.21	< 0.0032	< 2.8
	4/5/12	**93.7**	26.6	497	943	< 0.839	**242**	< 1.21	< 0.0029	< 2.8
	7/19/12	**70.6**	12.9	214	388	< 0.121	**154**	< 0.238	< 0.0029	< 2.8
	6/11/15	**141**	53.0	**966**	2,480	< 0.180	**1,180**	< 0.180	**0.317**	NA
MW-6	1/6/12	< 0.049	< 0.078	< 0.18	1.37 J	< 0.084	6.42	< 0.121	< 0.0032	4.5 J
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	6.49	< 0.121	< 0.0029	< 2.8
	7/18/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	7.11	< 0.119	< 0.0029	< 2.8
	6/8/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00627	NA
MW-7	1/6/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.121	< 0.0032	**22.0**
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	3.46 J	< 0.121	< 0.0029	12 J
	7/17/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.0029	< 0.119	< 0.28
	6/9/15	1.01	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00612	NA
MW-8	1/6/12	**970**	31.6	262	450	< 0.839	**91.1**	< 1.21	< 0.0032	< 2.8
	4/5/12	**1,000**	86.4	828	2,420	< 1.68	**389**	**8.66 J**	< 0.0029	3.8 J
	7/19/12	**1,040**	117	962	3,060	< 0.604	**450**	**7.11 J**	< 0.0029	< 2.8
	6/12/15	**567**	25.7	689	909	< 0.180	**368**	< 0.180	0.0138	NA

TABLE 3
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Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	XYLENES (µg/L)	MTBE (µg/L)	NAPHTH-ALENE (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	Total Lead (µg/L)
RBSLs	--	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*5.0*	*0.05*	*15*
MW-8D	1/5/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	5.21	1.34	< 0.0032	11.0
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	**27.0**
	7/19/12	< 0.099	< 0.127	1.48	4.59	< 0.06	5.24	< 0.119	< 0.0029	< 2.8
	6/10/15	2.65	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	2.28	< 0.00632	NA
MW-9	1/6/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.121	< 0.0032	0.03
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.12	< 0.0029	< 2.8
	7/17/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	< 0.28
	6/9/15	1.23	< 0.140	< 0.190	< 0.200	2.77	< 0.220	0.490	0.0115	NA
MW-10	1/6/12	**26.3**	< 0.078	11.4	21.8	**48.4**	5.34	< 0.121	0.015	< 2.8
	4/5/12	**2,150**	< 3.1	194	933	**259**	**263**	**57.5**	**0.268**	< 2.8
	7/18/12	**2,680**	< 3.18	148	1,150	**276**	**200**	**68.3**	**0.1**	< 2.8
	6/15/15	**1,820**	6.93	635	1,700	**200**	**382**	**48.2**	**2.13**	NA
MW-11	1/6/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.121	< 0.0032	< 2.8
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	< 2.8
	7/18/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	2.15 J	< 0.119	< 0.0029	< 2.8
	6/9/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00630	NA
MW-12	1/6/12	**3,140**	< 3.10	89.5	247	< 3.36	**465**	< 4.84	< 0.0032	< 2.8
	4/5/12	**2,980**	221	485	1,980	< 3.36	**204**	**33.6 J**	< 0.0029	< 2.8
	7/20/12	**5,580**	457	1,150	4,040	< 3.02	**460**	**39.4 J**	< 0.0029	< 2.8
	6/11/15	**4,540**	182	574	2,080	< 0.180	**450**	**35.0**	< 0.00610	NA
MW-13	1/6/12	**56**	< 0.388	< 0.9	4.56 J	< 0.42	**33.5**	10.7	< 0.0032	4.1 J
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	1.34	< 0.0029	< 2.8
	7/20/12	0.584 J	< 0.127	0.522 J	10.2	< 0.06	4.14 J	< 0.119	< 0.0029	< 2.8
	6/8/15	Not Sampled - Well Blocked								
MW-14	1/6/12	**5.73**	7.77	< 0.18	< 0.123	< 0.084	5.57	1.74	< 0.0032	**25.0**
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	< 2.8
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	< 2.8
	6/11/15	**20.1**	< 0.140	3.54	< 0.200	< 0.180	1.91	1.46	0.0148	NA
MW-15	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	< 2.8
	7/20/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	< 2.8
	6/9/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00620	NA
MW-15D	4/5/12	**5.95**	< 0.078	6.33	10.9	< 0.084	5.91	< 0.121	< 0.0029	< 2.8
	7/19/12	**9.42**	< 0.127	1.50	< 0.384	< 0.06	3.93 J	6.78	< 0.0029	< 2.8
	6/9/15	**31.7**	2.70	10.5	15.8	< 0.180	11.9	3.20	< 0.00627	NA
MW-16	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	< 2.8
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	< 2.8
	6/11/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00619	NA
MW-16D	4/5/12	**15.9**	< 0.078	6.1	12.6	< 0.084	6.32	< 0.121	< 0.0029	3.8 J
	7/19/12	**7.7**	< 0.127	< 0.119	2.54 J	< 0.06	2.46 J	0.942 J	< 0.0029	< 2.8
	6/10/15	**32.9**	1.16	9.24	20.2	< 0.180	8.58	6.61	< 0.00646	NA

TABLE 3
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	XYLENES (µg/L)	MTBE (µg/L)	NAPHTH-ALENE (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	Total Lead (µg/L)
RBSLs	--	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*5.0*	*0.05*	*15*
MW-17	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	< 2.8
	7/18/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	< 2.8
	6/8/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00613	NA
MW-17D	4/5/12	1.89	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	4.74	< 0.0029	< 2.8
	7/18/12	0.618 J	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	1.17	< 0.0029	< 2.8
	6/10/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	3.38	< 0.00644	NA
MW-18	4/5/12	3.73	< 0.078	19.0	21.9	< 0.084	4.01 J	< 0.121	< 0.0029	4.6 J
	7/20/12	< 0.099	< 0.127	4.8	5.5	< 0.06	4.27 J	< 0.119	< 0.0029	< 2.8
	6/9/15	< 0.160	< 0.140	1.00	1.25	< 0.180	< 0.220	< 0.180	< 0.00630	NA
MW-18D	4/5/12	**90.1**	< 0.078	< 0.18	1.17 J	< 0.084	4.46 J	**21.7**	< 0.0029	6.1 J
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	**19.4**	< 0.0029	< 2.8
	6/10/15	**27.7**	< 0.140	< 0.190	0.630	< 0.180	< 0.220	**22.1**	< 0.00634	NA
MW-19	4/5/12	4.87	< 0.078	0.328 J	1.01 J	< 0.084	< 0.175	**12.5**	< 0.0029	< 2.8
	7/20/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	**63.7**	< 0.0029	< 2.8
	6/11/15	3.61	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	**78.1**	< 0.00614	NA
MW-19D	4/5/12	3.07	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	4.87	< 0.0029	11.0 J
	7/19/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	1.46	< 0.0029	< 2.8
	6/10/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	1.69	< 0.00629	NA
MW-20	7/18/12	**325**	1.77 J	53	105	35	2.56 J	**7.21**	**0.112**	< 2.8
	6/12/15	**3,500**	27.6	634	3,140	231	**252**	**48.4**	**5.58**	NA
MW-20 Dup	6/12/15	**2,010**	26.7	686	3,510	**228**	**250**	**47.5**	**5.45**	NA
MW-20D	7/18/12	**22.6**	< 0.127	1.7	8.1	25.1	1.26 J	3.43	< 0.0029	< 2.8
	6/10/15	< 0.160	< 0.140	< 0.190	< 0.200	30.0	< 0.220	< 0.180	< 0.00634	NA
MW-21	7/18/12	**11,400**	12,100	1,170	5,840	**2,870**	294 J	**436**	**3.75**	< 2.8
	6/12/15	**4,380**	3,740	440	2,220	**833**	**141**	**173**	**2.78**	NA
MW-21D	7/18/12	**220**	473	151	785	**64.7**	**51.2**	8.19	0.017	< 2.8
	6/10/15	**1,460**	539	37.6	195	**335**	15.4	**38.9**	**0.327**	NA
MW-22	7/18/12	**262**	37.7	73.9	286	5.85	3.84 J	1.65 J	0.013	< 2.8
	6/12/15	**1,970**	56.3	307	1,760	**51.0**	**212**	**22.3**	**5.26**	NA
MW-22D	7/18/12	**1,300**	80.2	241	639	61	157	19.6	0.011	< 2.8
	6/10/15	**1,490**	76.0	296	569	**138**	**155**	**43.7**	**2.32**	NA
PW-1	1/5/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	1.89	< 0.0032	NA
On-Site Supply Well	1/27/12	< 0.049	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	1.97	< 0.0029	NA
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	NA
	7/17/12	< 0.099	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	1.22	< 0.0029	NA
	6/9/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	1.40	< 0.00620	NA
PW-2	1/5/12	4.64	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.121	< 0.0032	NA
Casper Supply Well	1/27/12	1.15	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.121	< 0.0029	NA
	4/5/12	< 0.049	< 0.078	< 0.18	< 0.176	< 0.084	< 0.175	< 0.121	< 0.0029	NA
	7/17/12	0.448J	< 0.127	< 0.119	< 0.384	< 0.06	< 0.065	< 0.119	< 0.0029	NA
	6/8/15	Not Sampled								

TABLE 3
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL-BENZENE (µg/L)	XYLENES (µg/L)	MTBE (µg/L)	NAPHTH-ALENE (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	Total Lead (µg/L)
RBSLs	--	*5*	*1,000*	*700*	*10,000*	*40*	*25*	*5.0*	*0.05*	*15*
Casper Residence Municipal Water Supply	1/27/12	< 0.078	< 0.078	< 0.18	< 0.123	< 0.084	< 0.175	< 0.121	< 0.0029	NA
Field Blank	6/8/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00631	NA
	6/9/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00621	NA
	6/10/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00618	NA
	6/11/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00615	NA
	6/12/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	< 0.00604	NA
Trip Blank	6/8/15	< 0.160	< 0.140	< 0.190	< 0.200	< 0.180	< 0.220	< 0.180	NA	NA

Notes:

1) Results shown in boldface type indicate concentrations which exceed the RBSL for that compound
2) µg/L - micrograms per liter or parts per billion
3) RBSL- Risk-Based Screening Level as defined by the SCDHEC RBCA Document
4) *J* - indicates an estimated value
5) *B* - indicates the result is between the Method Detection Limit and the Reporting Detection Limit
6) *NA* - Not Analyzed
7) 1,2 DCA - 1,2 Dichloroethane

TABLE 3A
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (µg/L)	ETBE (µg/L)	DIPE (µg/L)	ETBA (µg/L)	TBA (µg/L)	TAME (µg/L)	TAA (µg/L)	TBF (µg/L)
ALs	--	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-1	1/6/12	< 4090	< 55.5	< 5.25	< 1,880	< 14.5	< 52.5	**3,570**	< 108
	4/5/12	< 3,270	< 44.4	77.9J	< 1,500	< 11.6	< 42	**3,880**	< 86.4
	7/19/12	< 1640	< 22.2	32.8J	< 752	< 5.8	< 21.0	**3,520**	< 43.2
	6/11/15	< 8.00	< 0.300	15.7	980	27.5	< 0.300	**1,640**	< 1.00
MW-2	1/6/12	< 3,270	< 44.4	**836 J**	< 1,500	< 11.6	< 42	**6,820**	< 86.4
	4/5/12	< 4,090	,55.5	124J	< 1,880	149J	< 52.5	**6,580**	< 108
	7/17/12	< 2,050	< 27.8	71.9J	< 940	158J	< 26.3	**6,590**	< 54
	6/8/15	**0.02ft. OF FREE PRODUCT**							
MW-3	1/6/12	< 164	< 2.22	3.40 J	< 75.2	< 0.58	< 2.1	**243**	< 4.32
	4/5/12	< 81.8	< 1.11	4.64 J	< 37.6	< 0.29	< 1.05	**254**	< 2.16
	7/17/12	< 81.8	< 1.11	1.53J	< 37.6	4.73J	< 1.05	**170**	< 2.16
	6/9/15	< 8.00	< 0.300	2.81	152	< 1.00	< 0.300	193	< 1.00
MW-3D	1/5/12	< 409	< 5.55	42.8	< 188	55.5	< 5.25	**2,280**	< 10.8
	4/5/12	< 409	< 5.55	< 43	< 188	< 62.1	< 5.25	**2,120**	< 10.8
	7/17/12	< 409	< 5.55	36.1	< 188	71	< 5.25	**2,340**	< 10.8
	6/9/15	< 8.00	< 0.300	13.7	81.6	< 1.00	< 0.300	**312**	< 1.00
MW-4	1/6/12	< 164	< 2.22	3.52 J	< 75.2	< 0.58	< 2.1	**691**	< 4.32
	4/5/12	< 81.8	< 1.11	2.34 J	< 37.6	8.65 J	< 1.05	**380**	< 2.16
	7/18/12	< 164	< 2.22	2.88 J	< 75.2	< 0.58	< 2.1	**463**	< 4.32
	6/11/15	< 8.00	< 0.300	< 0.0800	34.9	< 1.00	< 0.300	51.9	< 1.00
MW-4 Dup	6/11/15	< 8.00	< 0.300	< 0.0800	44.9	< 1.00	< 0.300	< 1.10	< 1.00
MW-5	1/6/12	< 818	< 11.1	< 1.05	< 376	< 2.90	< 10.5	**278**	< 21.6
	4/5/12	< 818	< 11.1	< 1.05	< 376	< 2.9	< 10.5	139 J	< 21.6
	7/19/12	< 164	< 2.22	< 0.210	< 75.2	< 0.58	< 2.10	134	< 4.32
	6/11/15	< 8.00	< 0.300	< 0.0800	167	< 1.00	< 0.300	106	< 1.00
MW-6	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/8/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-7	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/17/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/9/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00

TABLE 3A
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (µg/L)	ETBE (µg/L)	DIPE (µg/L)	ETBA (µg/L)	TBA (µg/L)	TAME (µg/L)	TAA (µg/L)	TBF (µg/L)
ALs	--	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-8	1/6/12	< 818	< 376	25.9 J	< 11.1	< 2.90	< 10.5	**4,160**	< 21.6
	4/5/12	< 1,640	< 22.2	30.4 J	< 752	< 5.8	< 21.0	**1,360**	< 43.2
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/12/15	< 8.00	< 0.300	4.24	933	< 1.00	< 0.300	**756**	< 1.00
MW-8D	1/5/12	< 81.8	< 1.11	2.74 J	< 37.6	< 0.29	< 1.05	21.4	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.150	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.150	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/10/15	< 8.00	< 0.300	5.5	18.1	< 1.00	< 0.300	193	< 1.00
MW-9	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	10.5 J	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/17/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/9/15	< 8.00	< 0.300	< 0.0800	< 1.10	84.4	< 0.300	62.4	< 1.00
MW-10	1/6/12	< 81.8	< 1.11	1.07 J	< 37.6	41.2	< 1.05	106	< 2.16
	4/5/12	< 3,270	< 44.4	< 4.2	< 1,500	**1,420**	< 42	**3,930**	< 86.4
	7/18/12	< 2050	< 27.8	< 2.63	< 940	1,270	< 26.3	**3,680**	< 54
	6/12/15	< 8.00	< 0.300	< 0.0800	883	**2,070**	< 0.300	**2,410**	< 1.00
MW-11	1/6/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/9/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-12	1/6/12	< 3,270	< 44.4	73.4 J	< 1,500	< 11.6	< 42	**10,600**	< 86.4
	4/5/12	< 3,270	< 44.4	77.5 J	< 1,500	< 11.6	< 42	**6,010**	< 86.4
	7/20/12	< 4090	< 55.5	43.5 J	< 1880	< 14.5	< 52.5	**5,210**	< 108
	6/11/15	< 8.00	< 0.300	34.3	4,370	< 1.00	< 0.300	**5,220**	< 1.00
MW-13	1/6/12	< 409	< 5.55	15.6 J	< 188	47.2 J	< 5.25	**1,710**	< 10.8
	4/5/12	< 81.8	< 1.11	1.95 J	< 37.6	< 0.29	< 1.05	106	< 2.16
	7/20/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/8/15	Not Sampled - Well Blocked							
MW-14	1/6/12	< 81.8	< 1.11	1.79 J	< 37.6	< 0.29	< 1.05	158	< 2.16
	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	12.7 J	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/11/15	< 8.00	< 0.300	< 0.0800	39.7	< 1.00	< 0.300	98.5	< 1.00
MW-15	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	2.87 J	< 1.05	24.3	< 2.16
	7/20/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/9/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00

TABLE 3A
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (µg/L)	ETBE (µg/L)	DIPE (µg/L)	ETBA (µg/L)	TBA (µg/L)	TAME (µg/L)	TAA (µg/L)	TBF (µg/L)
ALs	--	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-15D	4/5/12	< 81.8	< 1.11	2.07 J	< 37.6	10.1	< 1.05	36.7	< 2.16
	7/19/12	< 81.8	< 1.11	4.47 J	< 37.6	< 0.29	< 1.05	43.7	< 2.16
	6/9/15	< 8.00	< 0.300	1.76	47.8	< 1.00	< 0.300	78.0	< 1.00
MW-16	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/11/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-16D	4/5/12	< 81.8	< 1.11	1.63 J	< 37.6	< 0.29	< 1.05	49.8	< 2.16
	7/21/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/10/15	< 8.00	< 0.300	5.87	69.5	< 1.00	< 0.300	**285**	< 1.00
MW-17	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	8.2 J	< 2.16
	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/8/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-17D	4/5/12	< 81.8	< 1.11	3.54 J	< 37.6	< 0.29	< 1.05	8.81 J	< 2.16
	7/18/12	< 81.8	< 1.11	0.875 J	< 37.6	< 0.29	< 1.05	6.61 J	< 2.16
	6/10/15	< 8.00	< 0.300	1.67	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-18	4/5/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	7.91 J	< 2.16
	7/20/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/9/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-18D	4/5/12	< 81.8	< 1.11	31.4	< 37.6	< 0.29	< 1.05	93.6	< 2.16
	7/19/12	< 81.8	< 1.11	< 0.105	< 37.6	< 0.29	< 1.05	53.8	< 2.16
	6/10/15	< 8.00	< 0.300	23.2	14.6	< 1.00	< 0.300	64.9	< 1.00
MW-19	4/5/12	< 81.8	< 1.11	< 74.2	< 37.6	190	< 1.05	**301**	< 2.16
	7/20/12	< 81.8	< 1.11	59	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/11/15	< 8.00	< 0.300	47.0	< 1.10	73.2	< 0.300	137	< 1.00
MW-19D	4/5/12	< 81.8	< 1.11	5.71	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	7/19/12	< 81.8	< 1.11	5.22	< 37.6	< 0.29	< 1.05	< 1.39	< 2.16
	6/10/15	< 8.00	< 0.300	1.22	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
MW-20	7/18/12	< 164	< 2.22	< 0.210	< 75.2	51.2	< 2.1	420	< 4.32
	6/12/15	< 8.00	< 0.300	< 0.0800	719	714	< 0.300	**2,570**	< 1.00
MW-20 Dup	6/12/15	< 8.00	< 0.300	< 0.0800	909	865	< 0.300	**3,040**	< 1.00
MW-20D	7/18/12	< 81.8	< 1.11	< 0.105	< 37.6	46.2	2.09 J	66	< 2.16
	6/10/15	< 8.00	< 0.300	< 0.0800	< 1.10	55.6	< 0.300	45.5	< 1.00
MW-21	7/18/12	< 8180	< 3760	< 10.5	< 3760	**16,300**	< 105	**32,100**	< 216
	6/21/15	< 8.00	< 0.300	< 0.0800	2,900	**16,100**	< 0.300	**11,200**	< 1.00

TABLE 3A
GROUND WATER MONITORING WELL ANALYTICAL DATA
Petroleum Related Compounds

Eddies' Pit Stop - SCDOT
Route 2, US Hwy 601 N., Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

WELL NUMBER	SAMPLE DATE	Ethanol (µg/L)	ETBE (µg/L)	DIPE (µg/L)	ETBA (µg/L)	TBA (µg/L)	TAME (µg/L)	TAA (µg/L)	TBF (µg/L)
ALs	--	*10,000*	*47*	*150*	*NE*	*1,400*	*128*	*240*	*NE*
MW-21D	7/18/12	< 409	< 5.55	< 0.525	< 188	179	< 5.25	**670**	< 10.8
	6/10/15	< 8.00	< 0.300	< 0.0800	1,300	**2,290**	5.21	**6,830**	< 1.00
MW-22	7/18/12	< 164	< 2.22	< 0.21	< 75.2	27.2	< 2.1	163	< 4.32
	6/12/15	< 8.00	< 0.300	< 0.0800	845	617	< 0.300	**2,090**	< 1.00
MW-22D	7/18/12	< 818	< 11.1	< 1.05	< 376	566	< 10.5	2,780	< 21.6
	6/10/15	< 8.00	< 0.300	< 0.0800	1,730	**2,610**	< 0.300	**5,300**	< 1.00
PW-1	1/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	4/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	7/17/12	NA	NA	NA	NA	NA	NA	NA	NA
	6/9/15	< 8.00	< 0.300	2.21	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
PW-2	1/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	4/5/12	NA	NA	NA	NA	NA	NA	NA	NA
	7/17/12	NA	NA	NA	NA	NA	NA	NA	NA
	6/8/15	Not Sampled							
Field Blank	6/8/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
	6/9/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
	6/10/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
	6/11/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
	6/12/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00
Trip Blank	6/8/15	< 8.00	< 0.300	< 0.0800	< 1.10	< 1.00	< 0.300	< 1.10	< 1.00

Notes:

1) Results shown in boldface type indicate detected compounds.

2) µg/L - micrograms per liter or parts per billion

3) ALs- SCDHEC Action Levels for Oxygenate Compounds, dated November 2008.

4) NE - Not Established

6) J indicates an estimated value below the laboratory reporting limit

7) 8 Oxygenates abbreviated as:

ETBE = ethyl tert-butyl ether — *TAME = t-amyl methyl ether*
TBA = t-butanol — *1,2-DCA = 1,2-dichloroethane*
TBF = tert-butyl formate — *ETBA = ethyl tert-butanol*
DIPE = diisopropyl ether — *TAA = tert-amyl alcohol*

APPENDIX B

Ground Water Sampling Logs and Laboratory Analytical Report

Terracon **WATER/PRODUCT LEVEL MEASUREMENT LOG**

Page_____ of _____

PROJECT NAME Eddie's P.T Stop

PROJECT NO. 73098106

DATE 06/08/15

EQUIPMENT USED Interface Probe

FIELD PERSONNEL David Lesesne

Well ID	Depth to Water	Depth to Product	Product Thickness	Total Depth	Vault	Bolts	Lid	Lock/ Cap	Comments
MW-1	18.94				Y	N	N	N	Bolts Lid Cap Tag
MW-2	14.97	14.95	0.02		Y	Y	Y	N	Lock
MW-3	19.29				Y	Y	Y	N	Lock
MW-3D	19.98				Y	Y	Y	NY	~~Lock~~
MW-4	19.95				Y	Y	Y	N	Cap Lock
MW-5	13.53				Y	Y	Y	N	Lock
MW-6	13.95				Y	Y	Y	Y	
MW-7	13.06				Y	Y	Y	Y	
MW-8	18.33				Y	Y	Y	Y	
MW-8D	18.93				Y	Y	Y	N	Tag Lock
MW-9	18.96				Y	Y	Y	N	Lock
MW-10	15.82				Y	Y	Y	N	Lock
MW-11	12.49				Y	Y	Y	N	Lock
MW-12	7.47				Y	Y	Y	N	Lock
MW-13	11.81				Y	Y	Y	N	Lock
MW-14	13.71				Y	Y	Y	N	Lock
MW-15	12.88				Y	Y	Y	Y	
MW-15D	14.60				Y	Y	Y	Y	
MW-16	13.50				Y	Y	Y	N	Cap
MW-16D	13.95				Y	Y	Y	Y	
MW-17	12.58				Y	Y	Y	Y	Tag
MW-17D	19.50				Y	Y	Y	Y	
MW-18	14.38				Y	Y	Y	Y	
MW-18D	12.26				Y	Y	Y	N	Cap
MW-19	12.88				Y	Y	Y	Y	
MW-20	15.63				N	N	Y	Y	Pad Vault Bolts
MW-20D	18.86				Y	Y	Y	Y	
MW-21	16.04				N	N	Y	N	Vault Bolts Lock
MW-21D	14.09				Y	Y	Y	N	Pad Tag Lock
MW-22	18.11				Y	Y	Y	N	Lock
MW-22D	19.10				Y	Y	Y	N	Lock Pad
MW-19D	12.41				Y	Y	Y	Y	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-01
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1630

Total Well Depth:	43.00	ft. BTOC
Depth to water:	18.94	ft. BTOC
Length of Water Column (LWC):	24.06	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.09	gal.
3 Casing Volumes:	12.27	gal.

Remarks: well dry at 6.5 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.31	5.51	5.58				
Specific Conductivity (umhos/cm)	160.2	166.0	172.4				
Water Temperature ©	22.3	22.4	22.6				
Turbidity	240	290	650				
Dissolved Oxygen (mg/L)	1.22	1.20	2.08				

Terracon

Groundwater Sampling Log

Well ID:	MW-02
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1100

Total Well Depth:	43.00	ft. BTOC
Depth to water:	14.97	ft. BTOC
Length of Water Column (LWC):	28.03	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.77	gal.
3 Casing Volumes:	14.30	gal.

Remarks: Product thickness 0.02

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH							
Specific Conductivity (umhos/cm)							
Water Temperature ©							
Turbidity							
Dissolved Oxygen (mg/L)							

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-03
Date:	
Site Name:	Eddies Pit Stop
Project No.:	73098126 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1200

Total Well Depth:	45.00	ft. BTOC
Depth to water:	19.29	ft. BTOC
Length of Water Column (LWC):	25.71	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.37	gal.
3 Casing Volumes:	13.11	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.77	5.80	5.86	5.94	5.71	5.64	
Specific Conductivity (umhos/cm)	151.8	137.0	151.8	156.3	173.7	179.5	
Water Temperature ©	21.6	21.4	22.1	21.6	22.1	22.3	
Turbidity	120	550	360	900	450	>1100	
Dissolved Oxygen (mg/L)	1.16	1.79	2.05	2.20	2.59	2.67	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-3D
Date:	06/29/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	80°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1130

Total Well Depth:	60.00 ft. BTOC
Depth to water:	19.98 ft. BTOC
Length of Water Column (LWC):	40.02 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	6.80 gal.
3 Casing Volumes:	20.41 gal.
Remarks:	

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	~~4.22~~ 5.86	6.11	5.82	5.79	5.71	5.81	
Specific Conductivity (umhos/cm)	332.3	239.3	196.8	183.9	188.9	170.2	
Water Temperature ©	26.1	22.3	21.7	21.1	21.7	21.4	
Turbidity	220	350	80	29	26	27	
Dissolved Oxygen (mg/L)	2.06	1.49	1.52	1.34	1.30	1.12	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-4
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	72098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1430

Total Well Depth:	49.00 ft. BTOC
Depth to water:	19.95 ft. BTOC
Length of Water Column (LWC):	29.05 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	4.94 gal.
3 Casing Volumes:	14.82 gal.
Remarks:	Duplicate sampled.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.51	5.28	5.39	5.38	5.38		
Specific Conductivity (umhos/cm)	93.2	91.9	90.9	93.8	95.6		
Water Temperature ©	22.5	22.1	22.4	21.8	21.3		
Turbidity	1.3	>1100	600	1000	750		
Dissolved Oxygen (mg/L)	1.13	2.71	2.58	3.19	2.93		

Terracon

Groundwater Sampling Log

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Well ID:	MW-05
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1600

Total Well Depth:	25.00	ft. BTOC
Depth to water:	13.53	ft. BTOC
Length of Water Column (LWC):	11.47	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	1.95	gal.
3 Casing Volumes:	5.85	gal.

Remarks: Well dry at 4.0 gallons - Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.03	4.92	4.99				
Specific Conductivity (umhos/cm)	61.7	72.9	67.8				
Water Temperature ©	21.8	19.6	20.3				
Turbidity	0.00	22	75				
Dissolved Oxygen (mg/L)	1.08	1.92	2.49				

Terracon

Groundwater Sampling Log

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Well ID:	MW-06
Date:	06/08/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1600

Total Well Depth:	35.00	ft. BTOC
Depth to water:	13.95	ft. BTOC
Length of Water Column (LWC):	21.05	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.58	gal.
3 Casing Volumes:	10.74	gal.

Remarks: Well dry at 5.5 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.54	5.11	5.12				
Specific Conductivity (umhos/cm)	164.0	102.0	44.3				
Water Temperature ©	29.6	23.6	22.9				
Turbidity	0.00	220	500				
Dissolved Oxygen (mg/L)	2.33	2.37	3.03				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-07
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	sunny
Air Temperature:	90
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1250

Total Well Depth:	34.00 ft. BTOC
Depth to water:	13.06 ft. BTOC
Length of Water Column (LWC):	20.94 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.56 gal.
3 Casing Volumes:	gal.

Remarks: Well dry @ 8.5 gallons Allow for recovery + Sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.15	5.02	4.99	4.98	4.94		
Specific Conductivity (umhos/cm)	137.5	113.8	106.3	107.2	111.8		
Water Temperature ©	23.4	24.1	21.9	21.7	24.9		
Turbidity	1.8	130	900	850	>1100		
Dissolved Oxygen (mg/L)	0.78	1.00	2.34	2.41	2.31		

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-08
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~ 73098106
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0730

Total Well Depth:	35.00	ft. BTOC
Depth to water:	18.33	ft. BTOC
Length of Water Column (LWC):	16.67	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	2.83	gal.
3 Casing Volumes:	8.50	gal.

Remarks: well dry at 5.5 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	6.29	6.11	6.28				
Specific Conductivity (umhos/cm)	221.1	202.4	208.9				
Water Temperature ©	20.3	20.0	20.4				
Turbidity	2.2	7.8	100				
Dissolved Oxygen (mg/L)	1.59	2.19	2.80				

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-8D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1500

Total Well Depth:	60.00	ft. BTOC
Depth to water:	18.93	ft. BTOC
Length of Water Column (LWC):	41.07	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.98	gal.
3 Casing Volumes:	20.95	gal.

Remarks: Well dry at 9.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.83	5.78					
Specific Conductivity (umhos/cm)	199.1	145.1					
Water Temperature ©	24.0	22.1					
Turbidity	27	850					
Dissolved Oxygen (mg/L)	3.54	3.44					

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-09
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1045

Total Well Depth:	34.00	ft. BTOC
Depth to water:	18.96	ft. BTOC
Length of Water Column (LWC):	15.04	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	2.56	gal.
3 Casing Volumes:	7.67	gal.

Remarks: Well dry at 6.25 gallons Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial		Well Dry				
Time							
pH	4.71	4.83	4.75	5.0			
Specific Conductivity (umhos/cm)	73.6	64.4	63.3	72.7			
Water Temperature ©	24.1	22.1	21.8	22.6			
Turbidity	0.0	85	95	65			
Dissolved Oxygen (mg/L)	0.8	1.76	1.40	2.68			

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-10
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1200

Total Well Depth:	35.00 ft. BTOC
Depth to water:	15.82 ft. BTOC
Length of Water Column (LWC):	19.18 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.26 gal.
3 Casing Volumes:	9.78 gal.

Remarks: Well dry at 6.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	4.90	5.02	5.20				
Specific Conductivity (umhos/cm)	85.8	88.0	95.5				
Water Temperature ©	22.8	22.1	21.9				
Turbidity	2.5	85	160				
Dissolved Oxygen (mg/L)	2.00	2.02	2.15				

Terracon

Groundwater Sampling Log

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Well ID:	MW-11
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73094104 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	

Total Well Depth:	34.50	ft. BTOC
Depth to water:	12.49	ft. BTOC
Length of Water Column (LWC):	22.01	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.74	gal.
3 Casing Volumes:	11.23	gal.

Remarks: Well dry at 11.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.79	5.25	4.98	5.00			
Specific Conductivity (umhos/cm)	200.2	122.1	143.4	156.9			
Water Temperature ©	22.3	20.4	20.0	21.6			
Turbidity	0.00	50	100	240			
Dissolved Oxygen (mg/L)	2.07	1.65	2.10	2.26			

Terracon

Groundwater Sampling Log

Well ID:	MW-12
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	~~73098106~~ ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1300

Total Well Depth:	35.00	ft. BTOC
Depth to water:	7.47	ft. BTOC
Length of Water Column (LWC):	27.53	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	4.68	gal.
3 Casing Volumes:	14.04	gal.

Remarks: Well dry at 11.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.76	5.75	5.73	5.71			
Specific Conductivity (umhos/cm)	245.3	202.8	220.5	220.5			
Water Temperature ©	22.5	21.3	21.2	20.8			
Turbidity	0.00	40	50	80			
Dissolved Oxygen (mg/L)	0.94	1.14	1.29	1.68			

Terracon

Groundwater Sampling Log

Well ID:	MW-13
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	85°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1215

Total Well Depth:	35.00	ft. BTOC
Depth to water:	11.81	ft. BTOC
Length of Water Column (LWC):	23.19	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.94	gal.
3 Casing Volumes:	11.83	gal.

Remarks: Well is not accessible. Wrecked car over l.i.d.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH							
Specific Conductivity (umhos/cm)							
Water Temperature ©							
Turbidity							
Dissolved Oxygen (mg/L)							

Terracon

Groundwater Sampling Log

Well ID:	MW-14
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	85°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1015

Total Well Depth:	35.00	ft. BTOC
Depth to water:	13.71	ft. BTOC
Length of Water Column (LWC):	21.29	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.62	gal.
3 Casing Volumes:	10.86	gal.

Remarks: Well dry at 11.75 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.48	5.54	5.55	5.64	5.80		
Specific Conductivity (umhos/cm)	130.1	100.4	104.0	125.5	125.6		
Water Temperature ©	22.0	21.1	19.5	19.4	20.2		
Turbidity	10	70	260	210	330		
Dissolved Oxygen (mg/L)	1.53	1.67	1.83	1.96	2.03		

Terracon

Groundwater Sampling Log

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Well ID:	MW-15
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~ 73098106
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	92°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	

Total Well Depth:	32.00	ft. BTOC
Depth to water:	12.88	ft. BTOC
Length of Water Column (LWC):	19.12	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.25	gal.
3 Casing Volumes:	9.75	gal.

Remarks: Well dry at 7.75 gallons. Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.64	5.62	5.71	5.93			
Specific Conductivity (umhos/cm)	111.4	96.1	101.0	108.0			
Water Temperature ©	22.6	19.8	19.9	21.4			
Turbidity	28	90	85	120			
Dissolved Oxygen (mg/L)	1.27	1.83	1.80	2.58			

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-15D
Date:	6-9-15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	

Total Well Depth:	60.00	ft. BTOC
Depth to water:	14.60	ft. BTOC
Length of Water Column (LWC):	45.40	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	7.72	gal.
3 Casing Volumes:	23.15	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	6.09	5.88	5.63	5.47	5.89	5.86	
Specific Conductivity (umhos/cm)	116.3	121.5	120.0	120.8	126.4	122.4	
Water Temperature ©	21.2	21.6	20.1	19.6	20.4	19.7	
Turbidity	>1100	38	3.0	1.00	0.00	0.80	
Dissolved Oxygen (mg/L)	1.20	1.54	1.57	1.18	1.56	1.67	

Terracon

Groundwater Sampling Log

Well ID:	MW-16
Date:	06/11/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0930

Total Well Depth:	32.00 ft. BTOC
Depth to water:	13.50 ft. BTOC
Length of Water Column (LWC):	18.50 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.15 gal.
3 Casing Volumes:	9.44 gal.

Remarks: Well dry at 7.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.26	5.11	5.08	5.03			
Specific Conductivity (umhos/cm)	156.5	106.7	100.9	101.2			
Water Temperature ©	24.9	23.1	22.1	22.3			
Turbidity	0.00	150	230	320			
Dissolved Oxygen (mg/L)	4.24	4.23	4.58	4.87			

Terracon

Groundwater Sampling Log

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Well ID:	MW-16D
Date:	
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1400

Total Well Depth:	60.00	ft. BTOC
Depth to water:	13.95	ft. BTOC
Length of Water Column (LWC):	46.05	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	7.83	gal.
3 Casing Volumes:	23.49	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	6.40	6.05	5.85	5.66	5.64	5.80	
Specific Conductivity (umhos/cm)	277.9	206.2	169.0	167.6	157.1	156.6	
Water Temperature ©	22.2	20.5	19.9	19.8	19.5	19.8	
Turbidity	750	>1100	55	11	6.9	2.7	
Dissolved Oxygen (mg/L)	0.94	1.07	1.28	1.03	1.07	0.99	

Terracon

Groundwater Sampling Log

Page ____ of ____

Well ID:	MW-17
Date:	
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~ 73098106
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1645

Total Well Depth:	35.00	ft. BTOC
Depth to water:	12.58	ft. BTOC
Length of Water Column (LWC):	22.42	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.81	gal.
3 Casing Volumes:	11.43	gal.

Remarks: Well dry at 10.6 gallons. Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	4.64	4.44	4.45	4.61			
Specific Conductivity (umhos/cm)	78.3	61.6	58.6	58.0			
Water Temperature ©	26.2	23.0	22.5	22.1			
Turbidity	10	190	370	400			
Dissolved Oxygen (mg/L)	1.02	1.01	1.41	2.17			

Terracon

Groundwater Sampling Log

Well ID:	MW-17D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Overcast
Air Temperature:	75°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	0945

Total Well Depth:	60.00	ft. BTOC
Depth to water:	19.50	ft. BTOC
Length of Water Column (LWC):	40.50	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.89	gal.
3 Casing Volumes:	20.66	gal.
Remarks:		

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.39	5.25	5.27	5.28	5.11		
Specific Conductivity (umhos/cm)	76.5	69.0	67.5	67.1	65.7		
Water Temperature ©	21.1	20.4	20.4	20.3	20.3		
Turbidity	650	24	0.85	0.00	0.00		
Dissolved Oxygen (mg/L)	1.26	1.21	1.51	1.02	1.12		

Terracon

Groundwater Sampling Log

Well ID:	MW-18
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1000

Total Well Depth:	32.00 ft. BTOC
Depth to water:	14.38 ft. BTOC
Length of Water Column (LWC):	17.62 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	3.00 gal.
3 Casing Volumes:	8.99 gal.
Remarks:	

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.07	4.92	5.12	5.29	5.32		
Specific Conductivity (umhos/cm)	78.6	60.4	76.9	74.5	75.5		
Water Temperature ©	21.3	19.6	19.4	19.6	20.6		
Turbidity	0.00	7.4	14	15	11		
Dissolved Oxygen (mg/L)	1.17	1.51	1.44	1.75	1.88		

Terracon

Groundwater Sampling Log

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Well ID:	MW-18D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73048106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Overcast
Air Temperature:	80°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1045

Total Well Depth:	60.00	ft. BTOC
Depth to water:	12.26	ft. BTOC
Length of Water Column (LWC):	47.74	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	8.12	gal.
3 Casing Volumes:	24.35	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.63	5.62	5.59	5.55	5.58	5.59	
Specific Conductivity (umhos/cm)	162.2	141.2	135.0	136.6	139.2	142.2	
Water Temperature ©	20.0	19.1	19.4	19.4	19.5	19.5	
Turbidity	>1100	650	340	400	45	19	
Dissolved Oxygen (mg/L)	1.21	2.61	1.41	1.36	1.15	1.14	

Terracon

Groundwater Sampling Log

Well ID:	MW-19
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	85°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	1115

Total Well Depth:	27.50 ft. BTOC
Depth to water:	12.88 ft. BTOC
Length of Water Column (LWC):	14.62 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	2.49 gal.
3 Casing Volumes:	7.46 gal.

Remarks: Well dry at 7.25 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.65	5.51	5.50	5.63			
Specific Conductivity (umhos/cm)	124.5	128.6	145.1	149.9			
Water Temperature ©	20.1	18.5	18.6	19.1			
Turbidity	24	37	50	200			
Dissolved Oxygen (mg/L)	0.98	1.44	1.90	1.95			

Terracon

Groundwater Sampling Log

Well ID:	MW-19D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	72095106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	80°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1200

Total Well Depth:	60.00	ft. BTOC
Depth to water:	12.41	ft. BTOC
Length of Water Column (LWC):	47.59	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	8.09	gal.
3 Casing Volumes:	24.27	gal.

Remarks:

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.76	5.71	5.70	5.82	5.70	5.70	
Specific Conductivity (umhos/cm)	81.1	74.8	75.0	78.6	85.8	83.3	
Water Temperature ©	19.3	19.2	19.3	20.1	20.2	19.8	
Turbidity	260	>1000	130	120	90	75	
Dissolved Oxygen (mg/L)	1.52	1.87	1.86	1.68	1.59	1.29	

Terracon

Groundwater Sampling Log

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Well ID:	MW-20
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0815

Total Well Depth:	35.00	ft. BTOC
Depth to water:	15.63	ft. BTOC
Length of Water Column (LWC):	19.37	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.29	gal.
3 Casing Volumes:	9.88	gal.

Remarks: Well dry at 4.50 gallons. Allow for recovery and sample. Duplicate sampled.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.48	5.00	5.02				
Specific Conductivity (umhos/cm)	77.4	65.9	72.2				
Water Temperature ©	20.9	20.7	20.9				
Turbidity	2.1	240	240				
Dissolved Oxygen (mg/L)	1.13	1.68	2.26				

Terracon

Groundwater Sampling Log

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Well ID:	MW-20D
Date:	6-10-15
Site Name:	Eddies Pit Stop
Project No.:	73028106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1545

Total Well Depth:	60.00	ft. BTOC
Depth to water:	18.86	ft. BTOC
Length of Water Column (LWC):	41.14	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.99	gal.
3 Casing Volumes:	20.98	gal.

Remarks: Well dry at 5.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.58	5.41					
Specific Conductivity (umhos/cm)	87.2	80.2					
Water Temperature ©	26.4	26.1					
Turbidity	>1100	32					
Dissolved Oxygen (mg/L)	1.10	3.66					

Terracon

Groundwater Sampling Log

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Well ID:	MW-21
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	73077002
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0900

Total Well Depth:	35.00	ft. BTOC
Depth to water:	16.04	ft. BTOC
Length of Water Column (LWC):	18.96	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	3.22	gal.
3 Casing Volumes:	9.67	gal.

Remarks: Well dry at ~~2~~2.75 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.58	5.67					
Specific Conductivity (umhos/cm)	149.8	240.1					
Water Temperature ©	21.3	21.7					
Turbidity	85	110					
Dissolved Oxygen (mg/L)	1.99	2.11					

Terracon

Groundwater Sampling Log

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Well ID:	MW-21D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1615

Total Well Depth:	60.00	ft. BTOC
Depth to water:	14.09	ft. BTOC
Length of Water Column (LWC):	45.91	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	7.80	gal.
3 Casing Volumes:	23.41	gal.

Remarks: Well dry at 5.50 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	12.08	12.33					
Specific Conductivity (umhos/cm)	1326	1403					
Water Temperature ©	28.2	24.4					
Turbidity	0.00	8.3					
Dissolved Oxygen (mg/L)	1.02	2.03					

Terracon

Groundwater Sampling Log

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Well ID:	MW-22
Date:	06/12/15
Site Name:	Eddies Pit Stop
Project No.:	~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Cloudy
Air Temperature:	75°
Well Evacuation Method:	Bailer
Sample Collection Method:	Bailer
Sampled at (time):	0930

Total Well Depth:	35.00 ft. BTOC
Depth to water:	18.11 ft. BTOC
Length of Water Column (LWC):	16.89 ft.
Casing Diameter:	2 in.
1 Casing Volume = LWC x 0.17 =	2.87 gal.
3 Casing Volumes:	8.61 gal.
Remarks:	Well dry at 6.25 gallons. Allow for recovery and sample

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	5.67	5.29	5.12				
Specific Conductivity (umhos/cm)	83.3	70.3	68.5				
Water Temperature ©	21.1	21.7	20.9				
Turbidity	11	13	75				
Dissolved Oxygen (mg/L)	1.44	1.77	1.82				

Terracon

Groundwater Sampling Log

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Well ID:	MW-22D
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Clear
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump ~~Bailer~~
Sample Collection Method:	Submersible Pump ~~Bailer~~
Sampled at (time):	1645

Total Well Depth:	60.00	ft. BTOC
Depth to water:	19.10	ft. BTOC
Length of Water Column (LWC):	40.90	ft.
Casing Diameter:	2	in.
1 Casing Volume = LWC x 0.17 =	6.95	gal.
3 Casing Volumes:	20.86	gal.

Remarks: Well dry at 12.0 gallons. Allow for recovery and sample.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH	9.38	7.52	6.69				
Specific Conductivity (umhos/cm)	205.9	169.9	133.2				
Water Temperature ©	28.4	23.3	23.3				
Turbidity	0.00	34	700				
Dissolved Oxygen (mg/L)	0.98	1.15	0.85				

Terracon

Groundwater Sampling Log

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Well ID:	PW-01
Date:	06/09/15
Site Name:	Eddies Pit Stop
Project No.:	73098106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	Partly Cloudy
Air Temperature:	90°
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	1445

Total Well Depth:	____ ft. BTOC
Depth to water:	____ ft. BTOC
Length of Water Column (LWC):	____ ft.
Casing Diameter:	____ in.
1 Casing Volume = LWC x ____ =	____ gal.
3 Casing Volumes:	____ gal.
Remarks:	

Field Analyses

Volume Purged (gal.)	Initial	1420	1425	1430	1435	1440	1445
Time							
pH	5.69	5.69	5.81	5.92	5.99	6.00	6.04
Specific Conductivity (umhos/cm)	215.9	191.7	187.2	188.7	189.6	188.0	186.4
Water Temperature ©	23.2	20.6	20.8	20.5	20.4	20.3	20.1
Turbidity	90	17	22	23	27	28	32
Dissolved Oxygen (mg/L)	1.80	1.73	1.52	1.57	1.41	1.47	1.49

Terracon

Groundwater Sampling Log

Well ID:	PW-02
Date:	06/10/15
Site Name:	Eddies Pit Stop
Project No.:	73093106 ~~73077002~~
Field Personnel:	David Lesesne
Weather Conditions:	
Air Temperature:	
Well Evacuation Method:	Submersible Pump
Sample Collection Method:	Submersible Pump
Sampled at (time):	

Total Well Depth:	ft. BTOC
Depth to water:	ft. BTOC
Length of Water Column (LWC):	ft.
Casing Diameter:	in.
1 Casing Volume = LWC x ____ =	gal.
3 Casing Volumes:	gal.
Remarks:	PW-02 is not accessible.

Field Analyses

Volume Purged (gal.)	Initial						
Time							
pH							
Specific Conductivity (umhos/cm)							
Water Temperature ©							
Turbidity							
Dissolved Oxygen (mg/L)							

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's P.t Stop

Date: 06/08/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)			Time: 1500	Time:	Time: 1700
	4/7/2010	Initial	7.00 / 4.00 / 10.00	/ /	/ 7.00 /
	1413 µs/cm	Post	/ /	/ /	/ /
	Calibration Successful (Y) / N		(Y) N	Y / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 656'	7.61 mg/L	mg/L	7.59 mg/L
Turdidity LaMotte (Serial No.4018-0703)	(0.0 ntu) / 10.0 ntu	Initial	0.00		0.00
		Post	0.00		
	Clibration Successful (Y) / N				

Comments:

Technician: David Lesesne

Signature: DW Lesesne

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's P.t Stop

Date: 06/09/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
			Time: 0830	Time: 1400	Time: 1715
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)	4/7/2010	Initial	4.00 / 7.00 / 10.00	3.84 / 6.94 / 10.04	/ 6.93 /
	1413 µs/cm	Post	/ /	3.83 / 7.03 / 10.35	/ 7.00 /
	Calibration Successful: (Y) / N		(Y) / N	(Y) / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation:	8.0 mg/L	6.96 mg/L	8.55 mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	0.00
		Post	0.00	0.00	0.00
	Clibration Successful: (Y) / N				

Comments: _____

Technician: David Lescesne

Signature: _____

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddies Pit Stop

Date: 06/10/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
			Time: 0800	Time: 1200	Time: 1715
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)	4/7/2010	Initial	3.83 / 7.00 / 10.38	/ 7.01 /	/ 7.04 /
	1413 µs/cm	Post	3.80 / 7.08 / 10.44	/ 7.00 /	/ 7.00 /
	Calibration Successful: Y / N		(Y) / N	(Y) / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 6560'	10.02 mg/L	8.04 mg/L	7.60 mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	0.00
		Post	0.00	0.00	0.00
	Clibration Successful: Y / N		Y	Y	Y

Comments:

Technician: David Loosme

Signature: DW Loosme

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's Pit Stop

Date: 06/11/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)			Time: 0815	Time: 1200	Time: 1700
	4/7/2010	Initial	3.98 / 7.04 / 10.27	/ 6.98 /	/ 7.01 /
	1413 µs/cm	Post	3.93 / 7.02 / 10.35	/ 6.99 /	/ 7.00 /
	Calibration Successful: Y / N		(Y) / N	(Y) / N	(Y) / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 656'	10.21 mg/L	8.71 mg/L	8.76 mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	0.00
		Post	0.00	0.00	0.00
	Clibration Successful: Y / N		Y	Y	Y

Comments:

Technician: David Lesesne

Signature: DW Lesesne

EQUIPMENT CALIBRATION LOG

Terracon

Site Eddie's Pit Stop

Date: 06/12/15

Parameter / Meter:	Standard	Measurement	Pre	Durring	Post
PH, Specific Conductivity, Tempature YSI 1030 Pro: (Serial No.14J00399)			Time: 0630	Time: 1000	Time:
	4/7/2010	Initial	3.90 / 7.07 / 10.42	/ /	/ /
	1413 µs/cm	Post	4.02 / 7.00 / 10.21	/ /	/ /
	Calibration Successful: Y / N		(Y) / N	Y / N	Y / N
Dissolved Oxygen YSI 55: (Serial No.06G1604)	Elevation at 100% Relative Humidity	Site Elevation: 656'	9.75 mg/L	8.22 mg/L	mg/L
Turdidity LaMotte (Serial No.4018-0703)	0.0 ntu / 10.0 ntu	Initial	0.00	0.00	
		Post	0.00	0.00	
	Clibration Successful: Y / N		Y	Y	

Comments:

Technician: David Lescure

Signature:

Analytical Report 509580

for

TERRACON Co.

Project Manager: Regan Norris

Eddie's Pit Stop

73098106

22-JUN-15

Collected By: Client

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

22-JUN-15

Project Manager: **Regan Norris**
TERRACON Co.
521 CLEMSON RD
Columbia, SC 29229

Reference: XENCO Report No(s): **509580**
Eddie's Pit Stop
Project Address:

Regan Norris:

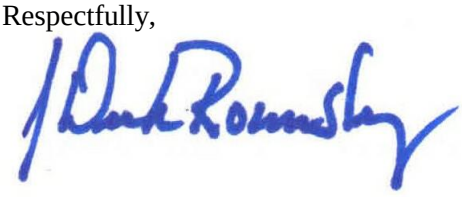
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 509580. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 509580 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



J. Derek Rounsley
Project Manager

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Certified and approved by numerous States and Agencies.
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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

Sample Cross Reference 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
18871/MW-05	W	06-11-15 16:00		509580-001
18871/MW-01	W	06-11-15 16:30		509580-002
18871/MW-08	W	06-12-15 07:30		509580-003
18871/MW-20	W	06-12-15 08:15		509580-004
18871/MW-20 Duplicate	W	06-12-15 08:15		509580-005
18871/MW-21	W	06-12-15 09:00		509580-006
18871/MW-22	W	06-12-15 09:30		509580-007
18871/MW-10	W	06-12-15 10:00		509580-008
18871/Field Blank	W	06-12-15 10:00		509580-009
18871/MW-20D	W	06-10-15 15:45		509580-010
18871/MW-21D	W	06-10-15 16:15		509580-011
18871/MW-22D	W	06-10-15 16:45		509580-012
18871/MW-16	W	06-11-15 09:30		509580-013
18871/MW-14	W	06-11-15 10:15		509580-014
18871/MW-19	W	06-11-15 11:15		509580-015
18871/MW-12	W	06-11-15 13:00		509580-016
18871/Field Blank	W	06-11-15 13:30		509580-017
18871/MW-04	W	06-11-15 14:30		509580-018
18871/MW-04 DUP	W	06-11-15 14:30		509580-019
18871/PW-01	W	06-09-15 14:45		509580-020
18871/Field Blank	W	06-09-15 16:15		509580-021
18871/MW-15D	W	06-09-15 16:45		509580-022
18871/MW-15	W	06-09-15 17:00		509580-023
18871/MW-17D	W	06-10-15 09:45		509580-024
18871/Field Blank	W	06-10-15 10:30		509580-025
18871/MW-18D	W	06-10-15 10:45		509580-026
18871/MW-19D	W	06-10-15 12:00		509580-027
18871/MW-16D	W	06-10-15 14:00		509580-028
18871/MW-08D	W	06-10-15 15:00		509580-029
18871/MW-06	W	06-08-15 16:00		509580-030
18871/MW-17	W	06-08-15 16:45		509580-031
18871/Field Blank	W	06-08-15 17:00		509580-032
18871/MW-18	W	06-09-15 10:00		509580-034
18871/MW-09	W	06-09-15 10:45		509580-035
18871/MW-3D	W	06-09-15 11:30		509580-036
18871/MW-03	W	06-09-15 12:00		509580-037
18871/MW-07	W	06-09-15 12:50		509580-038
TRIP BLANK	W	06-08-15 00:00		509580-039
18871/MW-11	W	06-09-15 09:15		509580-040

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-970687 BTEX & Oxygenates by SW-846 8260B
SW8260LL5_ATL
Batch 970687,
Lab Sample ID 509580-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. tert-Butyl formate recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 509580-001, -002, -003, -004, -005, -006, -007, -008, -011, -012, -015, -016, -019.
The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene, tert-Butyl formate is within laboratory Control Limits, therefore the data was accepted.

SW8260LL5_ATL
Batch 970687, tert-Butyl formate Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.
Samples in the analytical batch are: 509580-001, -002, -003, -004, -005, -006, -007, -008, -011, -012, -015, -016, -019

Batch: LBA-970698 BTEX & Oxygenates by SW-846 8260B
Lab Sample ID 509580-023 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). tert-Butyl formate recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 509580-022, -023, -024, -026, -027, -028, -029, -030, -031, -034, -035, -036, -037, -038, -039, -040.
The Laboratory Control Sample for tert-Butyl formate is within laboratory Control Limits, therefore the data was accepted.

CASE NARRATIVE

Client Name: TERRACON Co.
Project Name: Eddie's Pit Stop

Project ID: *73098106*
Work Order Number(s): *509580*

Report Date: *22-JUN-15*
Date Received: *06/13/2015*

Batch: LBA-970728 BTEX & Oxygenates by SW-846 8260B
Lab Sample ID 509580-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes, o-Xylene, tert-Butyl formate recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 509580-002, -003, -004, -005, -006, -007, -008, -010, -012, -013, -014, -016, -018, -020.
The Laboratory Control Sample for Benzene, m,p-Xylenes, o-Xylene, tert-Butyl formate is within laboratory Control Limits, therefore the data was accepted.

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-05** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-001 Date Collected: 06.11.15 16.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.317**	0.0200	0.00600	ug/L	06.15.15 20.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	60-140	06.15.15 20.00	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**141**	1.00	0.160	ug/L	06.19.15 12.59		1
Toluene	108-88-3	**53.0**	1.00	0.140	ug/L	06.19.15 12.59		1
Ethylbenzene	100-41-4	**966**	50.0	9.50	ug/L	06.21.15 15.44	DX	50
o-Xylene	95-47-6	**768**	50.0	10.0	ug/L	06.21.15 15.44	DX	50
m,p-Xylenes	179601-23-1	**1710**	100	25.5	ug/L	06.21.15 15.44	DX	50
Xylenes, Total	1330-20-7	**2480**	50.0	10.0	ug/L	06.21.15 15.44		50
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 12.59	U	1
Naphthalene	91-20-3	**1180**	50.0	11.0	ug/L	06.21.15 15.44	D	50
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.19.15 12.59	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 12.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 12.59	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 12.59	U	1
Ethyl tert-butyl alcohol	590-36-3	**167**	5.00	1.10	ug/L	06.19.15 12.59		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 12.59	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 12.59	U	1
tert-Amyl alcohol	75-85-4	**106**	5.00	1.10	ug/L	06.19.15 12.59		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 12.59	UXF	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.19.15 12.59	
4-Bromofluorobenzene	460-00-4	89	%	30-186	06.19.15 12.59	
Toluene-D8	2037-26-5	98	%	70-130	06.19.15 12.59	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-01** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-002 Date Collected: 06.11.15 16.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.94**	0.415	0.124	ug/L	06.16.15 09.16	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	60-140	06.15.15 20.48	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1040**	25.0	4.00	ug/L	06.21.15 17.56	D	25
Toluene	108-88-3	**148**	1.00	0.140	ug/L	06.19.15 13.25		1
Ethylbenzene	100-41-4	**1200**	25.0	4.75	ug/L	06.21.15 17.56	D	25
o-Xylene	95-47-6	**2320**	25.0	5.00	ug/L	06.21.15 17.56	D	25
m,p-Xylenes	179601-23-1	**1860**	50.0	12.8	ug/L	06.21.15 17.56	D	25
Xylenes, Total	1330-20-7	**4180**	25.0	5.00	ug/L	06.21.15 17.56		25
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 13.25	U	1
Naphthalene	91-20-3	**960**	25.0	5.50	ug/L	06.21.15 17.56	D	25
1,2-Dichloroethane	107-06-2	**34.4**	1.00	0.180	ug/L	06.19.15 13.25		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 13.25	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 13.25	U	1
Diisopropyl ether	108-20-3	**15.7**	1.00	0.0800	ug/L	06.19.15 13.25		1
Ethyl tert-butyl alcohol	590-36-3	**980**	125	27.5	ug/L	06.21.15 17.56	D	25
tert-Butyl alcohol	75-65-0	**27.5**	5.00	1.00	ug/L	06.19.15 13.25		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 13.25	U	1
tert-Amyl alcohol	75-85-4	**1640**	125	27.5	ug/L	06.21.15 17.56	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 13.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	93	%	53-159	06.19.15 13.25	
4-Bromofluorobenzene	460-00-4	98	%	30-186	06.19.15 13.25	
Toluene-D8	2037-26-5	96	%	70-130	06.19.15 13.25	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-08** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-003 Date Collected: 06.12.15 07.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0138**	0.0209	0.00626	ug/L	06.15.15 21.13	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	60-140	06.15.15 21.13	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**567**	10.0	1.60	ug/L	06.21.15 18.24	D	10
Toluene	108-88-3	**25.7**	1.00	0.140	ug/L	06.19.15 13.51		1
Ethylbenzene	100-41-4	**689**	10.0	1.90	ug/L	06.21.15 18.24	D	10
o-Xylene	95-47-6	**348**	10.0	2.00	ug/L	06.21.15 18.24	D	10
m,p-Xylenes	179601-23-1	**561**	20.0	5.10	ug/L	06.21.15 18.24	D	10
Xylenes, Total	1330-20-7	**909**	10.0	2.00	ug/L	06.21.15 18.24		10
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 13.51	U	1
Naphthalene	91-20-3	**368**	10.0	2.20	ug/L	06.21.15 18.24	D	10
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.19.15 13.51	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 13.51	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 13.51	U	1
Diisopropyl ether	108-20-3	**4.24**	1.00	0.0800	ug/L	06.19.15 13.51		1
Ethyl tert-butyl alcohol	590-36-3	**933**	5.00	1.10	ug/L	06.19.15 13.51		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 13.51	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 13.51	U	1
tert-Amyl alcohol	75-85-4	**756**	5.00	1.10	ug/L	06.19.15 13.51		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 13.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	93	%	53-159	06.19.15 13.51	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.19.15 13.51	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 13.51	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-20** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-004 Date Collected: 06.12.15 08.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**5.58**	1.05	0.316	ug/L	06.16.15 09.41	D	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.15.15 22.01	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3500**	50.0	8.00	ug/L	06.21.15 19.17	D	50
Toluene	108-88-3	**27.6**	1.00	0.140	ug/L	06.19.15 14.16		1
Ethylbenzene	100-41-4	**634**	10.0	1.90	ug/L	06.21.15 18.50	D	10
o-Xylene	95-47-6	**1290**	10.0	2.00	ug/L	06.21.15 18.50	D	10
m,p-Xylenes	179601-23-1	**1850**	20.0	5.10	ug/L	06.21.15 18.50	D	10
Xylenes, Total	1330-20-7	**3140**	10.0	2.00	ug/L	06.21.15 18.50		10
Methyl tert-butyl ether	1634-04-4	**231**	2.00	0.180	ug/L	06.19.15 14.16		1
Naphthalene	91-20-3	**252**	10.0	2.20	ug/L	06.21.15 18.50	D	10
1,2-Dichloroethane	107-06-2	**48.4**	1.00	0.180	ug/L	06.19.15 14.16		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 14.16	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 14.16	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 14.16	U	1
Ethyl tert-butyl alcohol	590-36-3	**719**	50.0	11.0	ug/L	06.21.15 18.50	D	10
tert-Butyl alcohol	75-65-0	**714**	5.00	1.00	ug/L	06.19.15 14.16		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 14.16	U	1
tert-Amyl alcohol	75-85-4	**2570**	50.0	11.0	ug/L	06.21.15 18.50	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 14.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 14.16	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.19.15 14.16	
Toluene-D8	2037-26-5	101	%	70-130	06.19.15 14.16	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-20 Duplicate** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-005 Date Collected: 06.12.15 08.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**5.45**	1.01	0.302	ug/L	06.16.15 10.05	D	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.15.15 22.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2010**	50.0	8.00	ug/L	06.21.15 20.12	D	50
Toluene	108-88-3	**26.7**	1.00	0.140	ug/L	06.19.15 14.42		1
Ethylbenzene	100-41-4	**686**	10.0	1.90	ug/L	06.21.15 19.44	D	10
o-Xylene	95-47-6	**1400**	10.0	2.00	ug/L	06.21.15 19.44	D	10
m,p-Xylenes	179601-23-1	**2110**	20.0	5.10	ug/L	06.21.15 19.44	D	10
Xylenes, Total	1330-20-7	**3510**	10.0	2.00	ug/L	06.21.15 19.44		10
Methyl tert-butyl ether	1634-04-4	**228**	2.00	0.180	ug/L	06.19.15 14.42		1
Naphthalene	91-20-3	**250**	10.0	2.20	ug/L	06.21.15 19.44	D	10
1,2-Dichloroethane	107-06-2	**47.5**	1.00	0.180	ug/L	06.19.15 14.42		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 14.42	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 14.42	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 14.42	U	1
Ethyl tert-butyl alcohol	590-36-3	**909**	50.0	11.0	ug/L	06.21.15 19.44	D	10
tert-Butyl alcohol	75-65-0	**865**	5.00	1.00	ug/L	06.19.15 14.42		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 14.42	U	1
tert-Amyl alcohol	75-85-4	**3040**	50.0	11.0	ug/L	06.21.15 19.44	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 14.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 14.42	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.19.15 14.42	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 14.42	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-21** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-006 Date Collected: 06.12.15 09.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.78**	0.421	0.126	ug/L	06.16.15 10.29	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	60-140	06.15.15 22.50	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**4380**	25.0	4.00	ug/L	06.21.15 22.29	D	25
Toluene	108-88-3	**3740**	25.0	3.50	ug/L	06.21.15 22.29	D	25
Ethylbenzene	100-41-4	**440**	25.0	4.75	ug/L	06.21.15 22.29	D	25
o-Xylene	95-47-6	**708**	25.0	5.00	ug/L	06.21.15 22.29	D	25
m,p-Xylenes	179601-23-1	**1510**	50.0	12.8	ug/L	06.21.15 22.29	D	25
Xylenes, Total	1330-20-7	**2220**	25.0	5.00	ug/L	06.21.15 22.29		25
Methyl tert-butyl ether	1634-04-4	**833**	50.0	4.50	ug/L	06.21.15 22.29	D	25
Naphthalene	91-20-3	**141**	1.00	0.220	ug/L	06.19.15 15.08		1
1,2-Dichloroethane	107-06-2	**173**	1.00	0.180	ug/L	06.19.15 15.08		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 15.08	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 15.08	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 15.08	U	1
Ethyl tert-butyl alcohol	590-36-3	**2900**	125	27.5	ug/L	06.21.15 22.29	D	25
tert-Butyl alcohol	75-65-0	**16100**	125	25.0	ug/L	06.21.15 22.29	D	25
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 15.08	U	1
tert-Amyl alcohol	75-85-4	**11200**	125	27.5	ug/L	06.21.15 22.29	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 15.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.19.15 15.08	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.19.15 15.08	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 15.08	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-22** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-007 Date Collected: 06.12.15 09.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**5.26**	1.01	0.302	ug/L	06.16.15 10.53	D	50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	60-140	06.15.15 23.14	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1970**	10.0	1.60	ug/L	06.21.15 20.39	D	10
Toluene	108-88-3	**56.3**	1.00	0.140	ug/L	06.19.15 15.33		1
Ethylbenzene	100-41-4	**307**	10.0	1.90	ug/L	06.21.15 20.39	D	10
o-Xylene	95-47-6	**994**	10.0	2.00	ug/L	06.21.15 20.39	D	10
m,p-Xylenes	179601-23-1	**767**	20.0	5.10	ug/L	06.21.15 20.39	D	10
Xylenes, Total	1330-20-7	**1760**	10.0	2.00	ug/L	06.21.15 20.39		10
Methyl tert-butyl ether	1634-04-4	**51.0**	2.00	0.180	ug/L	06.19.15 15.33		1
Naphthalene	91-20-3	**212**	10.0	2.20	ug/L	06.21.15 20.39	D	10
1,2-Dichloroethane	107-06-2	**22.3**	1.00	0.180	ug/L	06.19.15 15.33		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 15.33	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 15.33	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 15.33	U	1
Ethyl tert-butyl alcohol	590-36-3	**845**	5.00	1.10	ug/L	06.19.15 15.33		1
tert-Butyl alcohol	75-65-0	**617**	5.00	1.00	ug/L	06.19.15 15.33		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 15.33	U	1
tert-Amyl alcohol	75-85-4	**2090**	50.0	11.0	ug/L	06.21.15 20.39	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 15.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.19.15 15.33	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.19.15 15.33	
Toluene-D8	2037-26-5	102	%	70-130	06.19.15 15.33	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-10** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-008 Date Collected: 06.12.15 10.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.13**	0.400	0.120	ug/L	06.16.15 11.17	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	60-140	06.15.15 23.38	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1820**	50.0	8.00	ug/L	06.21.15 22.02	D	50
Toluene	108-88-3	**6.93**	1.00	0.140	ug/L	06.19.15 15.59		1
Ethylbenzene	100-41-4	**635**	10.0	1.90	ug/L	06.21.15 21.34	D	10
o-Xylene	95-47-6	**624**	10.0	2.00	ug/L	06.21.15 21.34	D	10
m,p-Xylenes	179601-23-1	**1080**	20.0	5.10	ug/L	06.21.15 21.34	D	10
Xylenes, Total	1330-20-7	**1700**	10.0	2.00	ug/L	06.21.15 21.34		10
Methyl tert-butyl ether	1634-04-4	**200**	2.00	0.180	ug/L	06.19.15 15.59		1
Naphthalene	91-20-3	**382**	10.0	2.20	ug/L	06.21.15 21.34	D	10
1,2-Dichloroethane	107-06-2	**48.2**	1.00	0.180	ug/L	06.19.15 15.59		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 15.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 15.59	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 15.59	U	1
Ethyl tert-butyl alcohol	590-36-3	**883**	5.00	1.10	ug/L	06.19.15 15.59		1
tert-Butyl alcohol	75-65-0	**2070**	50.0	10.0	ug/L	06.21.15 21.34	D	10
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 15.59	U	1
tert-Amyl alcohol	75-85-4	**2410**	50.0	11.0	ug/L	06.21.15 21.34	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	87	%	53-159	06.19.15 15.59	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.19.15 15.59	
Toluene-D8	2037-26-5	98	%	70-130	06.19.15 15.59	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-009 Date Collected: 06.12.15 10.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00604	0.0201	0.00604	ug/L	06.17.15 16.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	60-140	06.17.15 16.32	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 16.34	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 16.34	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 16.34	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 16.34	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 16.34	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 16.34	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 16.34	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 16.34	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 16.34	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 16.34	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 16.34	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 16.34	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 16.34	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 16.34	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 16.34	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 16.34	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 16.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.16.15 16.34	
4-Bromofluorobenzene	460-00-4	109	%	30-186	06.16.15 16.34	
Toluene-D8	2037-26-5	102	%	70-130	06.16.15 16.34	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-20D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-010 Date Collected: 06.10.15 15.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00634	0.0211	0.00634	ug/L	06.16.15 00.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	60-140	06.16.15 00.02	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.21.15 15.19	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 15.19	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.21.15 15.19	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 15.19	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 15.19	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 15.19	U	1
Methyl tert-butyl ether	1634-04-4	**30.0**	2.00	0.180	ug/L	06.21.15 15.19		1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.21.15 15.19	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.21.15 15.19	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 15.19	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 15.19	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 15.19	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.21.15 15.19	U	1
tert-Butyl alcohol	75-65-0	**55.6**	5.00	1.00	ug/L	06.21.15 15.19		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 15.19	U	1
tert-Amyl alcohol	75-85-4	**45.5**	5.00	1.10	ug/L	06.21.15 15.19		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 15.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	119	%	53-159	06.21.15 15.19	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.21.15 15.19	
Toluene-D8	2037-26-5	96	%	70-130	06.21.15 15.19	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-21D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-011 Date Collected: 06.10.15 16.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.327**	0.0213	0.00638	ug/L	06.16.15 00.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	60-140	06.16.15 00.26	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1460**	10.0	1.60	ug/L	06.21.15 16.14	D	10
Toluene	108-88-3	**539**	10.0	1.40	ug/L	06.21.15 16.14	D	10
Ethylbenzene	100-41-4	**37.6**	1.00	0.190	ug/L	06.19.15 16.50		1
o-Xylene	95-47-6	**74.5**	1.00	0.200	ug/L	06.19.15 16.50		1
m,p-Xylenes	179601-23-1	**120**	2.00	0.510	ug/L	06.19.15 16.50		1
Xylenes, Total	1330-20-7	**195**	1.00	0.200	ug/L	06.19.15 16.50		1
Methyl tert-butyl ether	1634-04-4	**335**	2.00	0.180	ug/L	06.19.15 16.50		1
Naphthalene	91-20-3	**15.4**	1.00	0.220	ug/L	06.19.15 16.50		1
1,2-Dichloroethane	107-06-2	**38.9**	1.00	0.180	ug/L	06.19.15 16.50		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 16.50	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 16.50	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 16.50	U	1
Ethyl tert-butyl alcohol	590-36-3	**1300**	50.0	11.0	ug/L	06.21.15 16.14	D	10
tert-Butyl alcohol	75-65-0	**2290**	50.0	10.0	ug/L	06.21.15 16.14	D	10
tert-Amyl methyl ether	994-05-8	**5.21**	1.00	0.300	ug/L	06.19.15 16.50		1
tert-Amyl alcohol	75-85-4	**6830**	50.0	11.0	ug/L	06.21.15 16.14	D	10
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 16.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	87	%	53-159	06.19.15 16.50	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.19.15 16.50	
Toluene-D8	2037-26-5	101	%	70-130	06.19.15 16.50	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-22D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-012 Date Collected: 06.10.15 16.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**2.32**	0.425	0.128	ug/L	06.16.15 11.41	D	20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	60-140	06.16.15 00.50	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1490**	25.0	4.00	ug/L	06.21.15 22.57	D	25
Toluene	108-88-3	**76.0**	1.00	0.140	ug/L	06.19.15 17.15		1
Ethylbenzene	100-41-4	**296**	25.0	4.75	ug/L	06.21.15 22.57	D	25
o-Xylene	95-47-6	**458**	25.0	5.00	ug/L	06.21.15 22.57	D	25
m,p-Xylenes	179601-23-1	**111**	2.00	0.510	ug/L	06.19.15 17.15		1
Xylenes, Total	1330-20-7	**569**	2.00	0.510	ug/L	06.21.15 22.57		25
Methyl tert-butyl ether	1634-04-4	**138**	2.00	0.180	ug/L	06.19.15 17.15		1
Naphthalene	91-20-3	**155**	25.0	5.50	ug/L	06.21.15 22.57	D	25
1,2-Dichloroethane	107-06-2	**43.7**	1.00	0.180	ug/L	06.19.15 17.15		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 17.15	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 17.15	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 17.15	U	1
Ethyl tert-butyl alcohol	590-36-3	**1730**	125	27.5	ug/L	06.21.15 22.57	D	25
tert-Butyl alcohol	75-65-0	**2610**	125	25.0	ug/L	06.21.15 22.57	D	25
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 17.15	U	1
tert-Amyl alcohol	75-85-4	**5300**	125	27.5	ug/L	06.21.15 22.57	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 17.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 17.15	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.19.15 17.15	
Toluene-D8	2037-26-5	99	%	70-130	06.19.15 17.15	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-16** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-013 Date Collected: 06.11.15 09.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.15.15 13.00

Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00619	0.0206	0.00619	ug/L	06.16.15 01.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	60-140	06.16.15 01.14	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.21.15 12.45

Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.21.15 15.45	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 15.45	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.21.15 15.45	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 15.45	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 15.45	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 15.45	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 15.45	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.21.15 15.45	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.21.15 15.45	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 15.45	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 15.45	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 15.45	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.21.15 15.45	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 15.45	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 15.45	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.21.15 15.45	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 15.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	123	%	53-159	06.21.15 15.45	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.21.15 15.45	
Toluene-D8	2037-26-5	98	%	70-130	06.21.15 15.45	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-14** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-014 Date Collected: 06.11.15 10.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.15.15 13.00
Seq Number: 970305

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0148**	0.0202	0.00605	ug/L	06.16.15 01.39	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	60-140	06.16.15 01.39	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**20.1**	1.00	0.160	ug/L	06.21.15 16.10		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 16.10	U	1
Ethylbenzene	100-41-4	**3.54**	1.00	0.190	ug/L	06.21.15 16.10		1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 16.10	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 16.10	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 16.10	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 16.10	U	1
Naphthalene	91-20-3	**1.91**	1.00	0.220	ug/L	06.21.15 16.10		1
1,2-Dichloroethane	107-06-2	**1.46**	1.00	0.180	ug/L	06.21.15 16.10		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 16.10	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 16.10	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 16.10	U	1
Ethyl tert-butyl alcohol	590-36-3	**39.7**	5.00	1.10	ug/L	06.21.15 16.10		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 16.10	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 16.10	U	1
tert-Amyl alcohol	75-85-4	**98.5**	5.00	1.10	ug/L	06.21.15 16.10		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 16.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	121	%	53-159	06.21.15 16.10	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.21.15 16.10	
Toluene-D8	2037-26-5	102	%	70-130	06.21.15 16.10	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-19** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-015 Date Collected: 06.11.15 11.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00614	0.0205	0.00614	ug/L	06.16.15 15.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	60-140	06.16.15 15.35	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3.61**	1.00	0.160	ug/L	06.19.15 18.33		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.19.15 18.33	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.19.15 18.33	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.19.15 18.33	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.19.15 18.33	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.19.15 18.33	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 18.33	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.19.15 18.33	U	1
1,2-Dichloroethane	107-06-2	**78.1**	1.00	0.180	ug/L	06.19.15 18.33		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 18.33	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 18.33	U	1
Diisopropyl ether	108-20-3	**47.0**	1.00	0.0800	ug/L	06.19.15 18.33		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.19.15 18.33	U	1
tert-Butyl alcohol	75-65-0	**73.2**	5.00	1.00	ug/L	06.19.15 18.33		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 18.33	U	1
tert-Amyl alcohol	75-85-4	**137**	5.00	1.10	ug/L	06.19.15 18.33		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.19.15 18.33	
4-Bromofluorobenzene	460-00-4	106	%	30-186	06.19.15 18.33	
Toluene-D8	2037-26-5	101	%	70-130	06.19.15 18.33	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-12** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-016 Date Collected: 06.11.15 13.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00610	0.0203	0.00610	ug/L	06.16.15 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.16.15 15.59	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.19.15 09.08
Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**4540**	25.0	4.00	ug/L	06.21.15 23.24	D	25
Toluene	108-88-3	**182**	25.0	3.50	ug/L	06.21.15 23.24	D	25
Ethylbenzene	100-41-4	**574**	25.0	4.75	ug/L	06.21.15 23.24	D	25
o-Xylene	95-47-6	**1020**	25.0	5.00	ug/L	06.21.15 23.24	D	25
m,p-Xylenes	179601-23-1	**1060**	50.0	12.8	ug/L	06.21.15 23.24	D	25
Xylenes, Total	1330-20-7	**2080**	25.0	5.00	ug/L	06.21.15 23.24		25
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 18.59	U	1
Naphthalene	91-20-3	**450**	25.0	5.50	ug/L	06.21.15 23.24	D	25
1,2-Dichloroethane	107-06-2	**35.0**	1.00	0.180	ug/L	06.19.15 18.59		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 18.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 18.59	U	1
Diisopropyl ether	108-20-3	**34.3**	1.00	0.0800	ug/L	06.19.15 18.59		1
Ethyl tert-butyl alcohol	590-36-3	**4370**	125	27.5	ug/L	06.21.15 23.24	D	25
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 18.59	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 18.59	U	1
tert-Amyl alcohol	75-85-4	**5220**	125	27.5	ug/L	06.21.15 23.24	D	25
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 18.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	94	%	53-159	06.19.15 18.59	
4-Bromofluorobenzene	460-00-4	94	%	30-186	06.19.15 18.59	
Toluene-D8	2037-26-5	100	%	70-130	06.19.15 18.59	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-017 Date Collected: 06.11.15 13.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00615	0.0205	0.00615	ug/L	06.17.15 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	60-140	06.17.15 16.56	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 17.01	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 17.01	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 17.01	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 17.01	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 17.01	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 17.01	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 17.01	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 17.01	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 17.01	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 17.01	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 17.01	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 17.01	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 17.01	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 17.01	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 17.01	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 17.01	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 17.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	105	%	53-159	06.16.15 17.01	
4-Bromofluorobenzene	460-00-4	107	%	30-186	06.16.15 17.01	
Toluene-D8	2037-26-5	101	%	70-130	06.16.15 17.01	

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-04** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-018 Date Collected: 06.11.15 14.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0314**	0.0206	0.00617	ug/L	06.16.15 16.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	60-140	06.16.15 16.23	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**27.2**	1.00	0.160	ug/L	06.21.15 17.02		1
Toluene	108-88-3	**3.03**	1.00	0.140	ug/L	06.21.15 17.02		1
Ethylbenzene	100-41-4	**148**	1.00	0.190	ug/L	06.21.15 17.02		1
o-Xylene	95-47-6	**208**	5.00	1.00	ug/L	06.21.15 17.29	D	5
m,p-Xylenes	179601-23-1	**429**	10.0	2.55	ug/L	06.21.15 17.29	D	5
Xylenes, Total	1330-20-7	**637**	5.00	1.00	ug/L	06.21.15 17.29		5
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 17.02	U	1
Naphthalene	91-20-3	**180**	1.00	0.220	ug/L	06.21.15 17.02		1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.21.15 17.02	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 17.02	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 17.02	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.21.15 17.02	U	1
Ethyl tert-butyl alcohol	590-36-3	**34.9**	5.00	1.10	ug/L	06.21.15 17.02		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 17.02	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 17.02	U	1
tert-Amyl alcohol	75-85-4	**51.9**	5.00	1.10	ug/L	06.21.15 17.02		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 17.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	117	%	53-159	06.21.15 17.02	
4-Bromofluorobenzene	460-00-4	92	%	30-186	06.21.15 17.02	
Toluene-D8	2037-26-5	98	%	70-130	06.21.15 17.02	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-04 DUP** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-019 Date Collected: 06.11.15 14.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0259**	0.0205	0.00614	ug/L	06.16.15 16.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.16.15 16.47	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: MWE % Moisture:

Analyst: MWE Date Prep: 06.19.15 09.08

Seq Number: 970687

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**33.1**	1.00	0.160	ug/L	06.19.15 19.52		1
Toluene	108-88-3	**3.67**	1.00	0.140	ug/L	06.19.15 19.52		1
Ethylbenzene	100-41-4	**146**	1.00	0.190	ug/L	06.19.15 19.52		1
o-Xylene	95-47-6	**252**	5.00	1.00	ug/L	06.21.15 16.43	D	5
m,p-Xylenes	179601-23-1	**519**	10.0	2.55	ug/L	06.21.15 16.43	D	5
Xylenes, Total	1330-20-7	**771**	5.00	1.00	ug/L	06.21.15 16.43		5
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.19.15 19.52	U	1
Naphthalene	91-20-3	**187**	1.00	0.220	ug/L	06.19.15 19.52		1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.19.15 19.52	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.19.15 19.52	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.19.15 19.52	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.19.15 19.52	U	1
Ethyl tert-butyl alcohol	590-36-3	**44.9**	5.00	1.10	ug/L	06.19.15 19.52		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.19.15 19.52	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.19.15 19.52	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.19.15 19.52	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.19.15 19.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.19.15 19.52	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.19.15 19.52	
Toluene-D8	2037-26-5	100	%	70-130	06.19.15 19.52	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/PW-01** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-020 Date Collected: 06.09.15 14.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00620	0.0207	0.00620	ug/L	06.16.15 17.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	60-140	06.16.15 17.11	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.21.15 12.45
Seq Number: 970728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.21.15 16.36	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.21.15 16.36	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.21.15 16.36	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.21.15 16.36	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.21.15 16.36	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.21.15 16.36	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.21.15 16.36	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.21.15 16.36	U	1
1,2-Dichloroethane	107-06-2	**1.40**	1.00	0.180	ug/L	06.21.15 16.36		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.21.15 16.36	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.21.15 16.36	U	1
Diisopropyl ether	108-20-3	**2.21**	1.00	0.0800	ug/L	06.21.15 16.36		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.21.15 16.36	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.21.15 16.36	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.21.15 16.36	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.21.15 16.36	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.21.15 16.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	125	%	53-159	06.21.15 16.36	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.21.15 16.36	
Toluene-D8	2037-26-5	100	%	70-130	06.21.15 16.36	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-021 Date Collected: 06.09.15 16.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00621	0.0207	0.00621	ug/L	06.17.15 17.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	60-140	06.17.15 17.20	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 17.28	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 17.28	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 17.28	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 17.28	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 17.28	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 17.28	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 17.28	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 17.28	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 17.28	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 17.28	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 17.28	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 17.28	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 17.28	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 17.28	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 17.28	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 17.28	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 17.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	103	%	53-159	06.16.15 17.28	
4-Bromofluorobenzene	460-00-4	110	%	30-186	06.16.15 17.28	
Toluene-D8	2037-26-5	99	%	70-130	06.16.15 17.28	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-15D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-022 Date Collected: 06.09.15 16.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00627	0.0209	0.00627	ug/L	06.16.15 17.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	60-140	06.16.15 17.36	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**31.7**	1.00	0.160	ug/L	06.20.15 16.04		1
Toluene	108-88-3	**2.70**	1.00	0.140	ug/L	06.20.15 16.04		1
Ethylbenzene	100-41-4	**10.5**	1.00	0.190	ug/L	06.20.15 16.04		1
o-Xylene	95-47-6	**5.11**	1.00	0.200	ug/L	06.20.15 16.04		1
m,p-Xylenes	179601-23-1	**10.7**	2.00	0.510	ug/L	06.20.15 16.04		1
Xylenes, Total	1330-20-7	**15.8**	1.00	0.200	ug/L	06.20.15 16.04		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 16.04	U	1
Naphthalene	91-20-3	**11.9**	1.00	0.220	ug/L	06.20.15 16.04		1
1,2-Dichloroethane	107-06-2	**3.20**	1.00	0.180	ug/L	06.20.15 16.04		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 16.04	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 16.04	U	1
Diisopropyl ether	108-20-3	**1.76**	1.00	0.0800	ug/L	06.20.15 16.04		1
Ethyl tert-butyl alcohol	590-36-3	**47.8**	5.00	1.10	ug/L	06.20.15 16.04		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 16.04	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 16.04	U	1
tert-Amyl alcohol	75-85-4	**78.0**	5.00	1.10	ug/L	06.20.15 16.04		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 16.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	107	%	53-159	06.20.15 16.04	
4-Bromofluorobenzene	460-00-4	104	%	30-186	06.20.15 16.04	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 16.04	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-15** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-023 Date Collected: 06.09.15 17.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00620	0.0207	0.00620	ug/L	06.16.15 18.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	60-140	06.16.15 18.00	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 15.39	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 15.39	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 15.39	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 15.39	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 15.39	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 15.39	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 15.39	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 15.39	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 15.39	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 15.39	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 15.39	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 15.39	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 15.39	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 15.39	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 15.39	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 15.39	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 15.39	UX	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 15.39	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 15.39	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 15.39	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-17D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-024 Date Collected: 06.10.15 09.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00644	0.0215	0.00644	ug/L	06.16.15 18.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	60-140	06.16.15 18.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 16.30	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 16.30	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 16.30	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 16.30	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 16.30	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 16.30	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 16.30	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 16.30	U	1
1,2-Dichloroethane	107-06-2	**3.38**	1.00	0.180	ug/L	06.20.15 16.30		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 16.30	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 16.30	U	1
Diisopropyl ether	108-20-3	**1.67**	1.00	0.0800	ug/L	06.20.15 16.30		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 16.30	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 16.30	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 16.30	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 16.30	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 16.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	104	%	53-159	06.20.15 16.30	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 16.30	
Toluene-D8	2037-26-5	101	%	70-130	06.20.15 16.30	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-025 Date Collected: 06.10.15 10.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: VIC Date Prep: 06.17.15 11.00

Seq Number: 970519

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00618	0.0206	0.00618	ug/L	06.17.15 17.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	60-140	06.17.15 17.45	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.16.15 11.37

Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 17.55	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 17.55	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 17.55	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 17.55	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 17.55	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 17.55	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 17.55	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 17.55	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 17.55	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 17.55	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 17.55	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 17.55	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 17.55	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 17.55	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 17.55	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 17.55	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 17.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	06.16.15 17.55	
4-Bromofluorobenzene	460-00-4	111	%	30-186	06.16.15 17.55	
Toluene-D8	2037-26-5	100	%	70-130	06.16.15 17.55	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-18D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-026 Date Collected: 06.10.15 10.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00634	0.0211	0.00634	ug/L	06.16.15 18.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	60-140	06.16.15 18.49	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**27.7**	1.00	0.160	ug/L	06.20.15 16.56		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 16.56	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 16.56	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 16.56	U	1
m,p-Xylenes	179601-23-1	**0.630**	2.00	0.510	ug/L	06.20.15 16.56	J	1
Xylenes, Total	1330-20-7	**0.630**	1.00	0.200	ug/L	06.20.15 16.56	J	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 16.56	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 16.56	U	1
1,2-Dichloroethane	107-06-2	**22.1**	1.00	0.180	ug/L	06.20.15 16.56		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 16.56	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 16.56	U	1
Diisopropyl ether	108-20-3	**23.2**	1.00	0.0800	ug/L	06.20.15 16.56		1
Ethyl tert-butyl alcohol	590-36-3	**14.6**	5.00	1.10	ug/L	06.20.15 16.56		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 16.56	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 16.56	U	1
tert-Amyl alcohol	75-85-4	**64.9**	5.00	1.10	ug/L	06.20.15 16.56		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	108	%	53-159	06.20.15 16.56	
4-Bromofluorobenzene	460-00-4	105	%	30-186	06.20.15 16.56	
Toluene-D8	2037-26-5	99	%	70-130	06.20.15 16.56	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-19D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-027 Date Collected: 06.10.15 12.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00629	0.0210	0.00629	ug/L	06.16.15 19.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	60-140	06.16.15 19.13	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 17.22	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 17.22	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 17.22	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 17.22	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 17.22	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 17.22	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 17.22	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 17.22	U	1
1,2-Dichloroethane	107-06-2	**1.69**	1.00	0.180	ug/L	06.20.15 17.22		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 17.22	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 17.22	U	1
Diisopropyl ether	108-20-3	**1.22**	1.00	0.0800	ug/L	06.20.15 17.22		1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 17.22	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 17.22	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 17.22	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 17.22	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 17.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.20.15 17.22	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 17.22	
Toluene-D8	2037-26-5	101	%	70-130	06.20.15 17.22	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-16D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-028 Date Collected: 06.10.15 14.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00646	0.0215	0.00646	ug/L	06.16.15 20.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	60-140	06.16.15 20.02	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**32.9**	1.00	0.160	ug/L	06.20.15 17.48		1
Toluene	108-88-3	**1.16**	1.00	0.140	ug/L	06.20.15 17.48		1
Ethylbenzene	100-41-4	**9.24**	1.00	0.190	ug/L	06.20.15 17.48		1
o-Xylene	95-47-6	**5.20**	1.00	0.200	ug/L	06.20.15 17.48		1
m,p-Xylenes	179601-23-1	**15.0**	2.00	0.510	ug/L	06.20.15 17.48		1
Xylenes, Total	1330-20-7	**20.2**	1.00	0.200	ug/L	06.20.15 17.48		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 17.48	U	1
Naphthalene	91-20-3	**8.58**	1.00	0.220	ug/L	06.20.15 17.48		1
1,2-Dichloroethane	107-06-2	**6.61**	1.00	0.180	ug/L	06.20.15 17.48		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 17.48	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 17.48	U	1
Diisopropyl ether	108-20-3	**5.87**	1.00	0.0800	ug/L	06.20.15 17.48		1
Ethyl tert-butyl alcohol	590-36-3	**69.5**	5.00	1.10	ug/L	06.20.15 17.48		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 17.48	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 17.48	U	1
tert-Amyl alcohol	75-85-4	**285**	5.00	1.10	ug/L	06.20.15 17.48		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 17.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	111	%	53-159	06.20.15 17.48	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 17.48	
Toluene-D8	2037-26-5	99	%	70-130	06.20.15 17.48	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-08D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-029 Date Collected: 06.10.15 15.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00632	0.0211	0.00632	ug/L	06.16.15 20.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	60-140	06.16.15 20.26	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2.65**	1.00	0.160	ug/L	06.20.15 18.14		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 18.14	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 18.14	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 18.14	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 18.14	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 18.14	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 18.14	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 18.14	U	1
1,2-Dichloroethane	107-06-2	**2.28**	1.00	0.180	ug/L	06.20.15 18.14		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 18.14	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 18.14	U	1
Diisopropyl ether	108-20-3	**5.50**	1.00	0.0800	ug/L	06.20.15 18.14		1
Ethyl tert-butyl alcohol	590-36-3	**18.1**	5.00	1.10	ug/L	06.20.15 18.14		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 18.14	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 18.14	U	1
tert-Amyl alcohol	75-85-4	**193**	5.00	1.10	ug/L	06.20.15 18.14		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 18.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 18.14	
4-Bromofluorobenzene	460-00-4	105	%	30-186	06.20.15 18.14	
Toluene-D8	2037-26-5	102	%	70-130	06.20.15 18.14	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-06** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-030 Date Collected: 06.08.15 16.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00627	0.0209	0.00627	ug/L	06.16.15 20.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	60-140	06.16.15 20.51	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 18.41	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 18.41	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 18.41	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 18.41	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 18.41	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 18.41	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 18.41	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 18.41	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 18.41	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 18.41	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 18.41	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 18.41	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 18.41	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 18.41	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 18.41	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 18.41	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 18.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 18.41	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 18.41	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 18.41	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-17** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-031 Date Collected: 06.08.15 16.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00613	0.0204	0.00613	ug/L	06.16.15 21.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	60-140	06.16.15 21.15	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 19.07	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 19.07	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 19.07	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 19.07	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 19.07	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 19.07	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 19.07	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 19.07	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 19.07	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 19.07	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 19.07	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 19.07	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 19.07	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 19.07	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 19.07	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 19.07	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 19.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	109	%	53-159	06.20.15 19.07	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 19.07	
Toluene-D8	2037-26-5	102	%	70-130	06.20.15 19.07	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/Field Blank** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-032 Date Collected: 06.08.15 17.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.45
Seq Number: 970415

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00631	0.0210	0.00631	ug/L	06.17.15 11.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	60-140	06.17.15 11.19	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.16.15 11.37
Seq Number: 970423

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.16.15 15.12	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.16.15 15.12	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.16.15 15.12	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.16.15 15.12	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.16.15 15.12	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.16.15 15.12	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.16.15 15.12	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.16.15 15.12	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.16.15 15.12	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.16.15 15.12	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.16.15 15.12	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.16.15 15.12	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.16.15 15.12	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.16.15 15.12	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.16.15 15.12	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.16.15 15.12	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.16.15 15.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	103	%	53-159	06.16.15 15.12	
4-Bromofluorobenzene	460-00-4	111	%	30-186	06.16.15 15.12	
Toluene-D8	2037-26-5	101	%	70-130	06.16.15 15.12	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-18** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-034 Date Collected: 06.09.15 10.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00630	0.0210	0.00630	ug/L	06.16.15 21.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.16.15 21.39	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 19.33	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 19.33	U	1
Ethylbenzene	100-41-4	**1.00**	1.00	0.190	ug/L	06.20.15 19.33	J	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 19.33	U	1
m,p-Xylenes	179601-23-1	**1.25**	2.00	0.510	ug/L	06.20.15 19.33	J	1
Xylenes, Total	1330-20-7	**1.25**	1.00	0.200	ug/L	06.20.15 19.33		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 19.33	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 19.33	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 19.33	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 19.33	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 19.33	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 19.33	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 19.33	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 19.33	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 19.33	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 19.33	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 19.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	108	%	53-159	06.20.15 19.33	
4-Bromofluorobenzene	460-00-4	106	%	30-186	06.20.15 19.33	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 19.33	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-09** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-035 Date Collected: 06.09.15 10.45

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0115**	0.0205	0.00614	ug/L	06.16.15 22.03	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	60-140	06.16.15 22.03	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.23**	1.00	0.160	ug/L	06.20.15 19.59		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 19.59	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 19.59	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 19.59	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 19.59	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 19.59	U	1
Methyl tert-butyl ether	1634-04-4	**2.77**	2.00	0.180	ug/L	06.20.15 19.59		1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 19.59	U	1
1,2-Dichloroethane	107-06-2	**0.490**	1.00	0.180	ug/L	06.20.15 19.59	J	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 19.59	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 19.59	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 19.59	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 19.59	U	1
tert-Butyl alcohol	75-65-0	**84.4**	5.00	1.00	ug/L	06.20.15 19.59		1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 19.59	U	1
tert-Amyl alcohol	75-85-4	**62.4**	5.00	1.10	ug/L	06.20.15 19.59		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 19.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	114	%	53-159	06.20.15 19.59	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 19.59	
Toluene-D8	2037-26-5	101	%	70-130	06.20.15 19.59	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-3D** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-036 Date Collected: 06.09.15 11.30

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00619	0.0206	0.00619	ug/L	06.16.15 22.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	60-140	06.16.15 22.28	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**10.1**	1.00	0.160	ug/L	06.20.15 20.26		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 20.26	U	1
Ethylbenzene	100-41-4	**1.23**	1.00	0.190	ug/L	06.20.15 20.26		1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 20.26	U	1
m,p-Xylenes	179601-23-1	**1.03**	2.00	0.510	ug/L	06.20.15 20.26	J	1
Xylenes, Total	1330-20-7	**1.03**	1.00	0.200	ug/L	06.20.15 20.26		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 20.26	U	1
Naphthalene	91-20-3	**2.78**	1.00	0.220	ug/L	06.20.15 20.26		1
1,2-Dichloroethane	107-06-2	**13.1**	1.00	0.180	ug/L	06.20.15 20.26		1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 20.26	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 20.26	U	1
Diisopropyl ether	108-20-3	**13.7**	1.00	0.0800	ug/L	06.20.15 20.26		1
Ethyl tert-butyl alcohol	590-36-3	**81.6**	5.00	1.10	ug/L	06.20.15 20.26		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 20.26	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 20.26	U	1
tert-Amyl alcohol	75-85-4	**312**	5.00	1.10	ug/L	06.20.15 20.26		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 20.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	113	%	53-159	06.20.15 20.26	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.20.15 20.26	
Toluene-D8	2037-26-5	98	%	70-130	06.20.15 20.26	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-03** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-037 Date Collected: 06.09.15 12.00

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00626	0.0209	0.00626	ug/L	06.16.15 23.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.16.15 23.16	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**88.7**	1.00	0.160	ug/L	06.20.15 20.52		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 20.52	U	1
Ethylbenzene	100-41-4	**32.7**	1.00	0.190	ug/L	06.20.15 20.52		1
o-Xylene	95-47-6	**1.98**	1.00	0.200	ug/L	06.20.15 20.52		1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 20.52	U	1
Xylenes, Total	1330-20-7	**1.98**	1.00	0.200	ug/L	06.20.15 20.52		1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 20.52	U	1
Naphthalene	91-20-3	**59.1**	1.00	0.220	ug/L	06.20.15 20.52		1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 20.52	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 20.52	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 20.52	U	1
Diisopropyl ether	108-20-3	**2.81**	1.00	0.0800	ug/L	06.20.15 20.52		1
Ethyl tert-butyl alcohol	590-36-3	**152**	5.00	1.10	ug/L	06.20.15 20.52		1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 20.52	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 20.52	U	1
tert-Amyl alcohol	75-85-4	**193**	5.00	1.10	ug/L	06.20.15 20.52		1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 20.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	98	%	53-159	06.20.15 20.52	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.20.15 20.52	
Toluene-D8	2037-26-5	99	%	70-130	06.20.15 20.52	

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TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-07** Matrix: Ground Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-038 Date Collected: 06.09.15 12.50

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P

Tech: CLAR % Moisture:

Analyst: CLAR Date Prep: 06.16.15 09.43

Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00612	0.0204	0.00612	ug/L	06.16.15 23.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	60-140	06.16.15 23.40	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.01**	1.00	0.160	ug/L	06.20.15 21.18		1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 21.18	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 21.18	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 21.18	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 21.18	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 21.18	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 21.18	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 21.18	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 21.18	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 21.18	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 21.18	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 21.18	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 21.18	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 21.18	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 21.18	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 21.18	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 21.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.20.15 21.18	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 21.18	
Toluene-D8	2037-26-5	103	%	70-130	06.20.15 21.18	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **TRIP BLANK** Matrix: Water Date Received:06.13.15 09.30

Lab Sample Id: 509580-039 Date Collected: 06.08.15 00.00

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B

Tech: ZHO % Moisture:

Analyst: ZHO Date Prep: 06.20.15 12.37

Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 15.13	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 15.13	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 15.13	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 15.13	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 15.13	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 15.13	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 15.13	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 15.13	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 15.13	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 15.13	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 15.13	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 15.13	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 15.13	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 15.13	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 15.13	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 15.13	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 15.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	105	%	53-159	06.20.15 15.13	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.20.15 15.13	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 15.13	

Certificate of Analytical Results 509580

TERRACON Co., Columbia, SC

Eddie's Pit Stop

Sample Id: **18871/MW-11** Matrix: Ground Water Date Received:06.13.15 09.30
Lab Sample Id: 509580-040 Date Collected: 06.09.15 09.15

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: CLAR % Moisture:
Analyst: CLAR Date Prep: 06.16.15 09.43
Seq Number: 970387

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	<0.00630	0.0210	0.00630	ug/L	06.17.15 00.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	60-140	06.17.15 00.04	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: ZHO Date Prep: 06.20.15 12.37
Seq Number: 970698

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.160	1.00	0.160	ug/L	06.20.15 21.44	U	1
Toluene	108-88-3	<0.140	1.00	0.140	ug/L	06.20.15 21.44	U	1
Ethylbenzene	100-41-4	<0.190	1.00	0.190	ug/L	06.20.15 21.44	U	1
o-Xylene	95-47-6	<0.200	1.00	0.200	ug/L	06.20.15 21.44	U	1
m,p-Xylenes	179601-23-1	<0.510	2.00	0.510	ug/L	06.20.15 21.44	U	1
Xylenes, Total	1330-20-7	<0.200	1.00	0.200	ug/L	06.20.15 21.44	U	1
Methyl tert-butyl ether	1634-04-4	<0.180	2.00	0.180	ug/L	06.20.15 21.44	U	1
Naphthalene	91-20-3	<0.220	1.00	0.220	ug/L	06.20.15 21.44	U	1
1,2-Dichloroethane	107-06-2	<0.180	1.00	0.180	ug/L	06.20.15 21.44	U	1
Ethanol	64-17-5	<8.00	20.0	8.00	ug/L	06.20.15 21.44	U	1
Ethyl tert-butyl ether	637-92-3	<0.300	1.00	0.300	ug/L	06.20.15 21.44	U	1
Diisopropyl ether	108-20-3	<0.0800	1.00	0.0800	ug/L	06.20.15 21.44	U	1
Ethyl tert-butyl alcohol	590-36-3	<1.10	5.00	1.10	ug/L	06.20.15 21.44	U	1
tert-Butyl alcohol	75-65-0	<1.00	5.00	1.00	ug/L	06.20.15 21.44	U	1
tert-Amyl methyl ether	994-05-8	<0.300	1.00	0.300	ug/L	06.20.15 21.44	U	1
tert-Amyl alcohol	75-85-4	<1.10	5.00	1.10	ug/L	06.20.15 21.44	U	1
tert-Butyl formate	762-75-4	<1.00	5.00	1.00	ug/L	06.20.15 21.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.20.15 21.44	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.20.15 21.44	
Toluene-D8	2037-26-5	100	%	70-130	06.20.15 21.44	

TERRACON Co.

Eddie's Pit Stop

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970305 — Matrix: Water — Date Prep: 06.15.15
MB Sample Id: 693860-1-BLK — LCS Sample Id: 693860-1-BKS — LCSD Sample Id: 693860-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.189	126	0.179	119	60-140	5	30	ug/L	06.15.15 16:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	115		112		108		60-140	%	06.15.15 16:21

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970387 — Matrix: Water — Date Prep: 06.16.15
MB Sample Id: 693887-1-BLK — LCS Sample Id: 693887-1-BKS — LCSD Sample Id: 693887-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.189	126	0.199	133	60-140	5	30	ug/L	06.16.15 14:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	110		120		126		60-140	%	06.16.15 14:46

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970415 — Matrix: Water — Date Prep: 06.16.15
MB Sample Id: 693888-1-BLK — LCS Sample Id: 693888-1-BKS — LCSD Sample Id: 693888-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.179	119	0.185	123	60-140	3	30	ug/L	06.17.15 02:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	114		116		120		60-140	%	06.17.15 02:05

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970519 — Matrix: Water — Date Prep: 06.17.15
MB Sample Id: 693971-1-BLK — LCS Sample Id: 693971-1-BKS — LCSD Sample Id: 693971-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.198	132	0.187	125	60-140	4	30	ug/L	06.17.15 15:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	119		125		130		60-140	%	06.17.15 15:43

TERRACON Co.

Eddie's Pit Stop

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970305 — Matrix: Ground Water — Date Prep: 06.15.15
Parent Sample Id: 509580-001 — MS Sample Id: 509580-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2-Dibromoethane	0.317	0.152	0.467	99	60-140	ug/L	06.15.15 20:24	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	118		60-140	%	06.15.15 20:24

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 970387 — Matrix: Ground Water — Date Prep: 06.16.15
Parent Sample Id: 509580-036 — MS Sample Id: 509580-036 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00632	0.158	0.173	109	60-140	ug/L	06.16.15 22:52	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	116		60-140	%	06.16.15 22:52

Analytical Method: BTEX & Oxygenates by SW-846 8260B — Prep Method: SW5030B
Seq Number: 970423 — Matrix: Water — Date Prep: 06.16.15
MB Sample Id: 693960-1-BLK — LCS Sample Id: 693960-1-BKS — LCSD Sample Id: 693960-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.2	92	46.2	92	80-120	0	20	ug/L	06.16.15 12:57	
Toluene	<0.140	50.0	47.5	95	46.9	94	75-120	1	20	ug/L	06.16.15 12:57	
Ethylbenzene	<0.190	50.0	48.7	97	47.5	95	75-125	2	20	ug/L	06.16.15 12:57	
o-Xylene	<0.200	50.0	48.6	97	47.7	95	80-120	2	20	ug/L	06.16.15 12:57	
m,p-Xylenes	<0.510	100	95.4	95	92.7	93	75-130	3	20	ug/L	06.16.15 12:57	
Methyl tert-butyl ether	<0.180	100	97.2	97	98.9	99	65-125	2	20	ug/L	06.16.15 12:57	
Naphthalene	<0.220	50.0	45.6	91	45.5	91	55-140	0	20	ug/L	06.16.15 12:57	
1,2-Dichloroethane	<0.180	50.0	46.2	92	45.9	92	70-130	1	20	ug/L	06.16.15 12:57	
Ethanol	<8.00	2000	2000	100	2000	100	65-135	0	20	ug/L	06.16.15 12:57	
Ethyl tert-butyl ether	<0.300	50.0	46.8	94	46.6	93	65-135	0	20	ug/L	06.16.15 12:57	
Diisopropyl ether	<0.0800	50.0	48.3	97	47.7	95	65-135	1	20	ug/L	06.16.15 12:57	
Ethyl tert-butyl alcohol	<1.10	500	394	79	401	80	40-140	2	20	ug/L	06.16.15 12:57	
tert-Butyl alcohol	<1.00	500	483	97	510	102	65-135	5	20	ug/L	06.16.15 12:57	
tert-Amyl methyl ether	<0.300	50.0	44.4	89	44.3	89	65-135	0	20	ug/L	06.16.15 12:57	
tert-Amyl alcohol	<1.10	500	416	83	431	86	40-140	4	20	ug/L	06.16.15 12:57	
tert-Butyl formate	<1.00	250	235	94	234	94	40-140	0	20	ug/L	06.16.15 12:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	104		96		98		53-159	%	06.16.15 12:57
4-Bromofluorobenzene	112		94		96		30-186	%	06.16.15 12:57
Toluene-D8	101		99		98		70-130	%	06.16.15 12:57

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970687 Matrix: Water Date Prep: 06.19.15

MB Sample Id: 694144-1-BLK LCS Sample Id: 694144-1-BKS LCSD Sample Id: 694144-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	45.7	91	46.4	93	80-120	2	20	ug/L	06.19.15 10:52	
Toluene	<0.140	50.0	47.3	95	47.5	95	75-120	0	20	ug/L	06.19.15 10:52	
Ethylbenzene	<0.190	50.0	50.9	102	50.9	102	75-125	0	20	ug/L	06.19.15 10:52	
o-Xylene	<0.200	50.0	51.8	104	50.6	101	80-120	2	20	ug/L	06.19.15 10:52	
m,p-Xylenes	<0.510	100	102	102	103	103	75-130	1	20	ug/L	06.19.15 10:52	
Methyl tert-butyl ether	<0.180	100	98.5	99	99.8	100	65-125	1	20	ug/L	06.19.15 10:52	
Naphthalene	<0.220	50.0	46.8	94	48.2	96	55-140	3	20	ug/L	06.19.15 10:52	
1,2-Dichloroethane	<0.180	50.0	53.4	107	55.0	110	70-130	3	20	ug/L	06.19.15 10:52	
Ethanol	<8.00	2000	1440	72	1630	82	65-135	12	20	ug/L	06.19.15 10:52	
Ethyl tert-butyl ether	<0.300	50.0	44.6	89	44.5	89	65-135	0	20	ug/L	06.19.15 10:52	
Diisopropyl ether	<0.0800	50.0	33.7	67	34.2	68	65-135	1	20	ug/L	06.19.15 10:52	
Ethyl tert-butyl alcohol	<1.10	500	319	64	349	70	40-140	9	20	ug/L	06.19.15 10:52	
tert-Butyl alcohol	<1.00	500	369	74	374	75	65-135	1	20	ug/L	06.19.15 10:52	
tert-Amyl methyl ether	<0.300	50.0	46.4	93	46.7	93	65-135	1	20	ug/L	06.19.15 10:52	
tert-Amyl alcohol	<1.10	500	342	68	361	72	40-140	5	20	ug/L	06.19.15 10:52	
tert-Butyl formate	<1.00	250	210	84	212	85	40-140	1	20	ug/L	06.19.15 10:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	102		107		110		53-159	%	06.19.15 10:52
4-Bromofluorobenzene	98		102		98		30-186	%	06.19.15 10:52
Toluene-D8	102		100		97		70-130	%	06.19.15 10:52

TERRACON Co.

Eddie's Pit Stop

Analytical Method: BTEX & Oxygenates by SW-846 8260B — Prep Method: SW5030B
Seq Number: 970698 — Matrix: Water — Date Prep: 06.20.15
MB Sample Id: 694156-1-BLK — LCS Sample Id: 694156-1-BKS — LCSD Sample Id: 694156-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	44.8	90	46.2	92	80-120	3	20	ug/L	06.20.15 13:29	
Toluene	<0.140	50.0	46.2	92	46.0	92	75-120	0	20	ug/L	06.20.15 13:29	
Ethylbenzene	<0.190	50.0	48.3	97	48.3	97	75-125	0	20	ug/L	06.20.15 13:29	
o-Xylene	<0.200	50.0	46.2	92	47.8	96	80-120	3	20	ug/L	06.20.15 13:29	
m,p-Xylenes	<0.510	100	94.5	95	98.1	98	75-130	4	20	ug/L	06.20.15 13:29	
Methyl tert-butyl ether	<0.180	100	89.1	89	92.6	93	65-125	4	20	ug/L	06.20.15 13:29	
Naphthalene	<0.220	50.0	44.6	89	47.0	94	55-140	5	20	ug/L	06.20.15 13:29	
1,2-Dichloroethane	<0.180	50.0	48.5	97	49.4	99	70-130	2	20	ug/L	06.20.15 13:29	
Ethanol	<8.00	2000	1650	83	1730	87	65-135	5	20	ug/L	06.20.15 13:29	
Ethyl tert-butyl ether	<0.300	50.0	42.2	84	43.7	87	65-135	3	20	ug/L	06.20.15 13:29	
Diisopropyl ether	<0.0800	50.0	34.8	70	36.3	73	65-135	4	20	ug/L	06.20.15 13:29	
Ethyl tert-butyl alcohol	<1.10	500	318	64	339	68	40-140	6	20	ug/L	06.20.15 13:29	
tert-Butyl alcohol	<1.00	500	406	81	462	92	65-135	13	20	ug/L	06.20.15 13:29	
tert-Amyl methyl ether	<0.300	50.0	42.7	85	44.2	88	65-135	3	20	ug/L	06.20.15 13:29	
tert-Amyl alcohol	<1.10	500	338	68	333	67	40-140	1	20	ug/L	06.20.15 13:29	
tert-Butyl formate	<1.00	250	189	76	201	80	40-140	6	20	ug/L	06.20.15 13:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	104		98		98		53-159	%	06.20.15 13:29
4-Bromofluorobenzene	107		102		101		30-186	%	06.20.15 13:29
Toluene-D8	101		99		99		70-130	%	06.20.15 13:29

Analytical Method: BTEX & Oxygenates by SW-846 8260B — Prep Method: SW5030B
Seq Number: 970726 — Matrix: Water — Date Prep: 06.21.15
MB Sample Id: 694171-1-BLK — LCS Sample Id: 694171-1-BKS — LCSD Sample Id: 694171-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.1	92	46.6	93	80-120	1	20	ug/L	06.21.15 14:23	
Toluene	<0.140	50.0	46.4	93	46.5	93	75-120	0	20	ug/L	06.21.15 14:23	
Ethylbenzene	<0.190	50.0	47.0	94	47.9	96	75-125	2	20	ug/L	06.21.15 14:23	
o-Xylene	<0.200	50.0	47.1	94	47.5	95	80-120	1	20	ug/L	06.21.15 14:23	
m,p-Xylenes	<0.510	100	93.0	93	93.5	94	75-130	1	20	ug/L	06.21.15 14:23	
Naphthalene	<0.220	50.0	46.0	92	47.6	95	55-140	3	20	ug/L	06.21.15 14:23	
Ethyl tert-butyl alcohol	<1.10	500	433	87	461	92	40-140	6	20	ug/L	06.21.15 14:23	
tert-Butyl alcohol	<1.00	500	498	100	544	109	65-135	9	20	ug/L	06.21.15 14:23	
tert-Amyl alcohol	<1.10	500	444	89	464	93	40-140	4	20	ug/L	06.21.15 14:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	101		97		101		53-159	%	06.21.15 14:23
4-Bromofluorobenzene	108		85		83		30-186	%	06.21.15 14:23
Toluene-D8	100		96		97		70-130	%	06.21.15 14:23

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970728 Matrix: Water Date Prep: 06.21.15

MB Sample Id: 694172-1-BLK LCS Sample Id: 694172-1-BKS LCSD Sample Id: 694172-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	42.9	86	44.3	89	80-120	3	20	ug/L	06.21.15 13:36	
Toluene	<0.140	50.0	45.8	92	45.8	92	75-120	0	20	ug/L	06.21.15 13:36	
Ethylbenzene	<0.190	50.0	50.4	101	51.2	102	75-125	2	20	ug/L	06.21.15 13:36	
o-Xylene	<0.200	50.0	50.1	100	51.2	102	80-120	2	20	ug/L	06.21.15 13:36	
m,p-Xylenes	<0.510	100	104	104	101	101	75-130	3	20	ug/L	06.21.15 13:36	
Methyl tert-butyl ether	<0.180	100	99.6	100	95.4	95	65-125	4	20	ug/L	06.21.15 13:36	
Naphthalene	<0.220	50.0	46.2	92	47.3	95	55-140	2	20	ug/L	06.21.15 13:36	
1,2-Dichloroethane	<0.180	50.0	54.3	109	54.0	108	70-130	1	20	ug/L	06.21.15 13:36	
Ethanol	<8.00	2000	1510	76	1560	78	65-135	3	20	ug/L	06.21.15 13:36	
Ethyl tert-butyl ether	<0.300	50.0	42.2	84	42.3	85	65-135	0	20	ug/L	06.21.15 13:36	
Diisopropyl ether	<0.0800	50.0	33.2	66	32.6	65	65-135	2	20	ug/L	06.21.15 13:36	
Ethyl tert-butyl alcohol	<1.10	500	296	59	324	65	40-140	9	20	ug/L	06.21.15 13:36	
tert-Butyl alcohol	<1.00	500	371	74	424	85	65-135	13	20	ug/L	06.21.15 13:36	
tert-Amyl methyl ether	<0.300	50.0	43.4	87	44.3	89	65-135	2	20	ug/L	06.21.15 13:36	
tert-Amyl alcohol	<1.10	500	448	90	365	73	40-140	20	20	ug/L	06.21.15 13:36	
tert-Butyl formate	<1.00	250	187	75	182	73	40-140	3	20	ug/L	06.21.15 13:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	121		113		111		53-159	%	06.21.15 13:36
4-Bromofluorobenzene	99		97		94		30-186	%	06.21.15 13:36
Toluene-D8	102		95		97		70-130	%	06.21.15 13:36

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970423 Matrix: Ground Water Date Prep: 06.16.15

Parent Sample Id: 509426-025 MS Sample Id: 509426-025 S MSD Sample Id: 509426-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.9	94	45.6	91	77-118	3	20	ug/L	06.16.15 22:32	
Toluene	<0.140	50.0	46.7	93	46.4	93	65-123	1	20	ug/L	06.16.15 22:32	
Ethylbenzene	<0.190	50.0	47.2	94	46.3	93	66-127	2	20	ug/L	06.16.15 22:32	
o-Xylene	<0.200	50.0	46.5	93	46.4	93	64-123	0	20	ug/L	06.16.15 22:32	
m,p-Xylenes	<0.510	100	91.8	92	90.1	90	65-126	2	20	ug/L	06.16.15 22:32	
Methyl tert-butyl ether	<0.180	100	92.4	92	91.4	91	58-141	1	20	ug/L	06.16.15 22:32	
Naphthalene	<0.220	50.0	44.5	89	46.4	93	30-148	4	20	ug/L	06.16.15 22:32	
1,2-Dichloroethane	<0.180	50.0	47.1	94	45.8	92	55-141	3	20	ug/L	06.16.15 22:32	
Ethanol	<8.00	2000	2600	130	2560	128	38-162	2	20	ug/L	06.16.15 22:32	
Ethyl tert-butyl ether	<0.300	50.0	47.4	95	45.8	92	66-135	3	20	ug/L	06.16.15 22:32	
Diisopropyl ether	<0.0800	50.0	49.3	99	47.0	94	59-148	5	20	ug/L	06.16.15 22:32	
Ethyl tert-butyl alcohol	<1.10	500	429	86	443	89	17-136	3	20	ug/L	06.16.15 22:32	
tert-Butyl alcohol	<1.00	500	616	123	619	124	65-135	0	20	ug/L	06.16.15 22:32	
tert-Amyl methyl ether	<0.300	50.0	45.2	90	45.0	90	56-136	0	20	ug/L	06.16.15 22:32	
tert-Amyl alcohol	<1.10	500	427	85	468	94	40-140	9	20	ug/L	06.16.15 22:32	
tert-Butyl formate	<1.00	500	238	48	230	46	25-148	3	20	ug/L	06.16.15 22:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	99		97		53-159	%	06.16.15 22:32
4-Bromofluorobenzene	99		99		30-186	%	06.16.15 22:32
Toluene-D8	96		98		70-130	%	06.16.15 22:32

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970687 Matrix: Ground Water Date Prep: 06.19.15

Parent Sample Id: 509580-001 MS Sample Id: 509580-001 S MSD Sample Id: 509580-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	141	50.0	199	116	197	112	77-118	1	20	ug/L	06.19.15 20:44	
Toluene	53.0	50.0	101	96	99.0	92	65-123	2	20	ug/L	06.19.15 20:44	
Ethylbenzene	790	50.0	822	64	808	36	66-127	2	20	ug/L	06.19.15 20:44	X
o-Xylene	530	50.0	543	26	538	16	64-123	1	20	ug/L	06.19.15 20:44	X
m,p-Xylenes	1690	100	1660	0	1630	0	65-126	2	20	ug/L	06.19.15 20:44	X
Methyl tert-butyl ether	<0.180	100	87.1	87	86.7	87	58-141	0	20	ug/L	06.19.15 20:44	
Naphthalene	536	50.0	551	30	561	50	30-148	2	20	ug/L	06.19.15 20:44	
1,2-Dichloroethane	<0.180	50.0	45.0	90	44.1	88	55-141	2	20	ug/L	06.19.15 20:44	
Ethanol	<8.00	2000	1990	100	2070	104	38-162	4	20	ug/L	06.19.15 20:44	
Ethyl tert-butyl ether	<0.300	50.0	43.9	88	42.9	86	66-135	2	20	ug/L	06.19.15 20:44	
Diisopropyl ether	<0.0800	50.0	38.6	77	37.8	76	59-148	2	20	ug/L	06.19.15 20:44	
Ethyl tert-butyl alcohol	167	500	627	92	652	97	17-136	4	20	ug/L	06.19.15 20:44	
tert-Butyl alcohol	<1.00	500	431	86	496	99	65-135	14	20	ug/L	06.19.15 20:44	
tert-Amyl methyl ether	<0.300	50.0	43.1	86	42.5	85	56-136	1	20	ug/L	06.19.15 20:44	
tert-Amyl alcohol	106	500	624	104	751	129	40-140	18	20	ug/L	06.19.15 20:44	
tert-Butyl formate	<1.00	250	91.1	36	<1.00	0	25-148	200	20	ug/L	06.19.15 20:44	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	91		92		53-159	%	06.19.15 20:44
4-Bromofluorobenzene	97		99		30-186	%	06.19.15 20:44
Toluene-D8	98		99		70-130	%	06.19.15 20:44

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 970698 Matrix: Ground Water Date Prep: 06.20.15
Parent Sample Id: 509580-023 MS Sample Id: 509580-023 S MSD Sample Id: 509580-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	40.5	81	41.2	82	77-118	2	20	ug/L	06.20.15 23:29	
Toluene	<0.140	50.0	41.8	84	41.7	83	65-123	0	20	ug/L	06.20.15 23:29	
Ethylbenzene	<0.190	50.0	44.5	89	44.8	90	66-127	1	20	ug/L	06.20.15 23:29	
o-Xylene	<0.200	50.0	44.2	88	44.9	90	64-123	2	20	ug/L	06.20.15 23:29	
m,p-Xylenes	<0.510	100	87.5	88	87.4	87	65-126	0	20	ug/L	06.20.15 23:29	
Methyl tert-butyl ether	<0.180	100	84.9	85	88.1	88	58-141	4	20	ug/L	06.20.15 23:29	
Naphthalene	<0.220	50.0	41.0	82	45.0	90	30-148	9	20	ug/L	06.20.15 23:29	
1,2-Dichloroethane	<0.180	50.0	48.8	98	48.5	97	55-141	1	20	ug/L	06.20.15 23:29	
Ethanol	<8.00	2000	1110	56	1160	58	38-162	4	20	ug/L	06.20.15 23:29	
Ethyl tert-butyl ether	<0.300	50.0	37.9	76	40.1	80	66-135	6	20	ug/L	06.20.15 23:29	
Diisopropyl ether	<0.0800	50.0	29.8	60	30.6	61	59-148	3	20	ug/L	06.20.15 23:29	
Ethyl tert-butyl alcohol	<1.10	500	282	56	298	60	17-136	6	20	ug/L	06.20.15 23:29	
tert-Butyl alcohol	<1.00	500	537	107	525	105	65-135	2	20	ug/L	06.20.15 23:29	
tert-Amyl methyl ether	<0.300	50.0	39.9	80	41.3	83	56-136	3	20	ug/L	06.20.15 23:29	
tert-Amyl alcohol	<1.10	500	381	76	396	79	40-140	4	20	ug/L	06.20.15 23:29	
tert-Butyl formate	<1.00	500	<1.00	0	<1.00	0	25-148	NC	20	ug/L	06.20.15 23:29	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	105		117		53-159	%	06.20.15 23:29
4-Bromofluorobenzene	96		99		30-186	%	06.20.15 23:29
Toluene-D8	100		101		70-130	%	06.20.15 23:29

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 970726 Matrix: Ground Water Date Prep: 06.21.15
Parent Sample Id: 509693-004 MS Sample Id: 509693-004 S MSD Sample Id: 509693-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	45.5	91	66.0	132	77-118	37	20	ug/L	06.21.15 23:04	XF
Toluene	<0.140	50.0	44.7	89	43.1	86	65-123	4	20	ug/L	06.21.15 23:04	
Ethylbenzene	<0.190	50.0	44.3	89	42.7	85	66-127	4	20	ug/L	06.21.15 23:04	
o-Xylene	<0.200	50.0	41.2	82	41.3	83	64-123	0	20	ug/L	06.21.15 23:04	
m,p-Xylenes	<0.510	100	80.6	81	78.9	79	65-126	2	20	ug/L	06.21.15 23:04	
Naphthalene	<0.220	50.0	44.7	89	44.6	89	30-148	0	20	ug/L	06.21.15 23:04	
Ethyl tert-butyl alcohol	<1.10	500	456	91	445	89	17-136	2	20	ug/L	06.21.15 23:04	
tert-Butyl alcohol	<1.00	500	743	149	744	149	65-135	0	20	ug/L	06.21.15 23:04	X
tert-Amyl alcohol	<1.10	500	516	103	671	134	40-140	26	20	ug/L	06.21.15 23:04	F

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	99		116		53-159	%	06.21.15 23:04
4-Bromofluorobenzene	95		95		30-186	%	06.21.15 23:04
Toluene-D8	96		95		70-130	%	06.21.15 23:04

QC Summary 509580

TERRACON Co.

Eddie's Pit Stop

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B

Seq Number: 970728 Matrix: Ground Water Date Prep: 06.21.15

Parent Sample Id: 509580-004 MS Sample Id: 509580-004 S MSD Sample Id: 509580-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	3110	500	4050	188	3900	158	77-118	4	20	ug/L	06.21.15 23:51	X
Toluene	27.6	500	479	90	475	89	65-123	1	20	ug/L	06.21.15 23:51	
Ethylbenzene	754	500	1170	83	1150	79	66-127	2	20	ug/L	06.21.15 23:51	
o-Xylene	1680	500	1890	42	1830	30	64-123	3	20	ug/L	06.21.15 23:51	X
m,p-Xylenes	2620	1000	2990	37	2930	31	65-126	2	20	ug/L	06.21.15 23:51	X
Methyl tert-butyl ether	231	1000	1130	90	1130	90	58-141	0	20	ug/L	06.21.15 23:51	
Naphthalene	287	500	762	95	729	88	30-148	4	20	ug/L	06.21.15 23:51	
1,2-Dichloroethane	48.4	500	554	101	537	98	55-141	3	20	ug/L	06.21.15 23:51	
Ethanol	<80.0	20000	16300	82	16700	84	38-162	2	20	ug/L	06.21.15 23:51	
Ethyl tert-butyl ether	<3.00	500	418	84	435	87	66-135	4	20	ug/L	06.21.15 23:51	
Diisopropyl ether	<0.800	500	338	68	361	72	59-148	7	20	ug/L	06.21.15 23:51	
Ethyl tert-butyl alcohol	1040	5000	4100	61	3960	58	17-136	3	20	ug/L	06.21.15 23:51	
tert-Butyl alcohol	714	5000	6050	107	5580	97	65-135	8	20	ug/L	06.21.15 23:51	
tert-Amyl methyl ether	<3.00	500	444	89	441	88	56-136	1	20	ug/L	06.21.15 23:51	
tert-Amyl alcohol	3820	5000	6720	58	6960	63	40-140	4	20	ug/L	06.21.15 23:51	
tert-Butyl formate	<10.0	5000	456	9	426	9	25-148	7	20	ug/L	06.21.15 23:51	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	99		99		53-159	%	06.21.15 23:51
4-Bromofluorobenzene	103		98		30-186	%	06.21.15 23:51
Toluene-D8	98		98		70-130	%	06.21.15 23:51

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300492
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon
521 Clemson Rd Columbia, SC 29229
Results Sent to: Regan Norris
Email address: regan.norris@terracon.com
Contact Phone #: 803-741-4000 Cell#:
Project Name (Site): Eddie's Pit Stop
Project Number (ID): T3098106
Regulatory Program:

Receiver's Initials/Temp: DV / 2.1°C
Custody Seal(s): ___ Y N Lab Work Order # 509580
P.O.# (if required):
Field Comments / Lab Precautions:

Analysis Requested

Container Type: GC GC
Chemical Preservation Code: 1

Sampler(s): (signature) DW Zimmy
Sampler(s): (printed) David Lesesne

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA oxy	EDB
1	18871/MW-05		6-11-15/1600	GW		✓	4	2	2
2	18871/MW-01		6-11-15/1630	GW		✓	4	2	2
3	18871/MW-08		6-12-15/0730	GW		✓	4	2	2
4	18871/MW-20		6-12-15/0815	GW		✓	4	2	2
5	18871/MW-20 Duplicate		6-12-15/0815	GW		✓	4	2	2
6	18871/MW-21		6-12-15/0900	GW		✓	4	2	2
7	18871/MW-22		6-12-15/0930	GW		✓	4	2	2
8	18871/MW-10		6-12-15/1000	GW		✓	4	2	2
9	18871/Field Blank		6-12-15/1000	W			2	2	
10									

1) Relinquished By: Date / Time 6-12-15 2:40 pm
2) Received By: Date / Time 6/12/15 14:32
Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

3) Relinquished By: FedEx Date / Time
4) Received By: Date / Time 06/13/15 9:30
5) Relinquished By: Date / Time
6) Received By: Date / Time

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300505
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon	Receiver's Initials/Temp: DC / 2.1°C
521 Clemson Rd, Columbia, SC 29229	Custody Seal(s):___ Y N Lab Work Order # 509580
Results Sent to: Regan Norris	P.O.# (if required):
Email address: regan.norris@terracon.com	Field Comments / Lab Precautions:
Contact Phone #: 803-741-9000 Cell#:	
Project Name (Site): Eddie's Pit Stop	
Project Number (ID): 73098106	Container Type: GC GC
Regulatory Program:	Chemical Preservation Code: 1
Sampler(s): (signature)	Sampler(s): (printed) David Lesesne

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA OXY	EDB
1	18871/MW-20D		6-10-15/1545	GW		✓	4	2	2
2	18871/MW-21D		6-10-15/1615	GW		✓	4	2	2
3	18871/MW-22D		6-10-15/1645	GW		✓	4	2	2
4	18871/MW-16		6-10-15/0930	GW		✓	4	2	2
5	18871/MW-14		6-10-15/1015	GW		✓	4	2	2
6	18871/MW-19		6-10-15/1115	GW		✓	4	2	2
7	18871/MW-12		6-11-15/1300	GW		✓	4	2	2
8	18871/Field Blank		6-11-15/1330				2	2	
9	18871/MW-04		6-11-15/1430	GW		✓	4	2	2
10	18871/MW-04 Dup		6-11-15/1430	GW		✓	4	2	2

1) Relinquished By:	Date / Time 6-12-15 2:40pm	2) Received By: Date / Time 6/12/15 14:30
3) Relinquished By: FedEx	Date / Time	4) Received By: Date / Time 6/13/15 9:30
5) Relinquished By:	Date / Time	6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300482
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon	Receiver's Initials/Temp: JC / 2.1°C
521 Clemson Rd, Columbia, SC 29229	Custody Seal(s):___ Y N Lab Work Order # 509580
Results Sent to: Regan Norris	P.O.# (if required):
Email address: regan.norris@terracon.com	Field Comments / Lab Precautions:
Contact Phone #: 803-741-9000 Cell#:	
Project Name (Site): Eddies Pit Stop	
Project Number (ID): 73098106	Container Type: GC GC
Regulatory Program:	Chemical Preservation Code: 1
Sampler(s): (signature)	Sampler(s): (printed): David Lesesne

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA, EtOXY	EDB
1	18871 / PW-01		6-9-15 / 1445	GW		✓	4	2	2
2	18871 / Field Blank		6-9-15 / 1615				2	2	
3	18871 / MW-15D		6-9-15 / 1645	GW		✓	4	2	2
4	18871 / MW-15		6-9-15 / 1700	GW		✓	4	2	2
5	18871 / MW-17D		6-10-15 / 0945	GW		✓	4	2	2
6	18871 / Field Blank		6-10-15 / 1030	GW		✓	2	2	
7	18871 / MW-18D		6-10-15 / 1045	GW		✓	4	2	2
8	18871 / MW-19D		6-10-15 / 1200	GW		✓	4	2	2
9	18871 / MW-16D		6-10-15 / 1400	GW		✓	4	2	2
10	18871 / MW-08D		6-10-15 / 1500	GW		✓	4	2	2

1) Relinquished By:	Date / Time 6-12-15 2:40	2) Received By:	Date / Time 6/12/15 14:30
3) Relinquished By: Fedex	Date / Time	4) Received By:	Date / Time 06/13/15 9:30
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300464
Page _____ of _____
6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Terracon	Receiver's Initials/Temp: MV / 2.1°C 509580
521 Clemson Road, Columbia SC 29229	Custody Seal(s):___ Y N Lab Work Order #
Results Sent to: Regan Norris	P.O.# (if required):
Email address: regan.norris@terracon.com	Field Comments / Lab Precautions:
Contact Phone #: 803-741-9000 Cell#:	
Project Name (Site): Eddie's Pit Stop	**Analysis Requested**
Project Number (ID): 73098106	Container Type: GC GC
Regulatory Program:	Chemical Preservation Code: 1

Sampler(s): (signature) DW Terrell

Sampler(s): (printed) David Lesesne

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	BTEX, Naph, MTBE 1,2-DCA Oxy	EDB
1	18871 / MW-06		6-8-15 / 1600	GW		✓	4	2	2
2	18871 / MW-17		6-8-15 / 1645	GW		✓	4	2	2
3	18871 / Field Blank		6-8-15 / 1700				2	2	
4	18871 / MW-06		6-9-15 / 0915	GW		✓	4	2	2
5	18871 / MW-18		6-9-15 / 1000	GW		✓	4	2	2
6	18871 / MW-09		6-9-15 / 1045	GW		✓	4	2	2
7	18871 / MW-02		6-9-15 / 1120	GW		✓	4	2	2
8	18871 / MW-30		6-9-15 / 1130	GW		✓	4	2	2
9	18871 / MW-03		6-9-15 / 1200	GW		✓	4	2	2
10	18871 / MW-07		6-9-15 / 1250	GW		✓	4	2	2

1) Relinquished By:	Date / Time 6-12-15 2:40pm	2) Received By: Date / Time 6/12/15 1430
3) Relinquished By:	Date / Time 6-1	4) Received By: Date / Time 06/13/15 9:30
5) Relinquished By:	Date / Time	6) Received By: Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
___10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)

Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH

Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

FedEx Express Package US Airbill

FedEx Tracking Number 8047 7449 4140

Form ID No. 0215

1 From

Date

Sender's Name Phone

Company

CUSTODY SEAL

Address

(signature) Sample

City 12/15 Time Collected

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8047 7449 4140

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☐ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☐ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Florida Testing Services, LLC

Client: TERRACON Co.

Date/ Time Received: 06/13/2015 09:30:00 AM

Work Order #: 509580

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6 *Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Sample instructions complete on Chain of Custody?	**Yes**	
#9 Any missing/extra samples?	**Yes**	One extra set of sample containers (2-HCL Vials and 2-Unpreserved vials) labeled as 1871/MW-11 not listed on COC. Missing containers in cooler upon receipt for sample# 033 (1871/MW-06)
#10 Chain of Custody signed when relinquished/ received?	**Yes**	
#11 Chain of Custody agrees with sample label(s)?	**Yes**	
#12 Container label(s) legible and intact?	**Yes**	
#13 Sample matrix/ properties agree with Chain of Custody?	**Yes**	
#14 Samples in proper container/ bottle?	**Yes**	
#15 Samples properly preserved?	**Yes**	
#16 Sample container(s) intact?	**Yes**	
#17 Sufficient sample amount for indicated test(s)?	**Yes**	
#18 All samples received within hold time?	**Yes**	
#19 Subcontract of sample(s)?	**No**	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	**Yes**	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 06/13/2015

Checklist reviewed by: J. Derek Rounsley Date: 06/16/2015

APPENDIX G

Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	2 1 3 4 2

GENERATOR

5. Generator's Name and Mailing Address [illegible]

Generator's Site Address (if different than mailing address) [illegible] Exit Stop
Rt. 2, US Hwy 601 North
Bageland, SC

Generator's Phone: [illegible]

6. Transporter 1 Company Name: Terracon — 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-
803-926-0086 — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED MATERIAL 10471 - 1247	1	T T	140	G	
2.						
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
David Lesesne	[signature]	06	25	15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
David Lesesne	[signature]	06	25	15
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

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
Sanette Conley	[signature]	6	25	15

APPENDIX K

SCDHEC QAPP Contractors Checklist

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
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		

Explanation for missing or incomplete information

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MR MARK HUNTER
SC DEPARTMENT OF TRANSPORTATION
PO BOX 191
COLUMBIA SC 29202-0191

JUL 17 2015

UST DOCKETING

Re: Recovery Well Installation & AFVR Directive
Eddie's Pit Stop, Route 2 Highway 601 North, Pageland, SC
UST Permit #18871; CA #50584; MWA #UMW-26021
Release reported August 29, 2002
Monitoring Report Received July 6, 2015
Chesterfield County

Dear Mr. Hunter:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Terracon Consultants, Inc. as your contractor. The next appropriate scope of work at the site is recovery well installation and aggressive fluid and vapor recovery (AFVR) to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC).

Cost Agreement #50584 has been approved in the amount shown on the enclosed cost agreement form for the installation of two recovery well followed by a 96-hour AFVR event. The recovery wells should be installed in the locations depicted on the enclosed figure within five feet of MW-2. The recovery wells should be four inches in diameter and installed to a depth of 25 feet. They should be screened from 5 feet to 25 feet. After well installation activities, the 96-hour AFVR event should be conducted on monitoring wells MW-2 and the newly installed recovery well. The stingers shall be lowered at six inch intervals starting at the water table interface to the estimated historical low water table elevation for each well. Stingers should be placed as to maximize FP and/or vapor recovery. Approximately 30 days after conclusion of the AFVR event, MW-2 and the newly installed recovery wells should be gauged for free product. Well installation and AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. The Well installation and AFVR event must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) revision 2.0. A copy of the QAPP is available at http://www.scdhec.gov/Environment/docs/QAPP_Rev-2_April2013.pdf.

The Well Installation & AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. It should also contain SCDHEC Form 1903 and monitoring well logs for the newly installed recovery well. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) account. Interim invoices may not be submitted for this scope of work. 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 Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Agency grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference **UST Permit #18871**. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0607or by e-mail at thrasham@dhec.sc.gov.

Sincerely,

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement form
MWA Form
Site Map with Propose RW Locations

cc: Terracon Consultants, Inc., 521 Clemson Road, Columbia, SC 29229 (w/ enc)
Technical File (w/ enc)

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Monitoring Well Approval Form

Approval is hereby granted to:	Terracon Consultants, Inc.
(on behalf of):	SCDOT
Facility:	Eddie's Pit Stop, Highway 601 North, Pageland, SC
UST Permit Number:	18871
County:	Chesterfield

This approval is for the installation of 2 recovery wells. The wells are to be installed in the approved location. The 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:

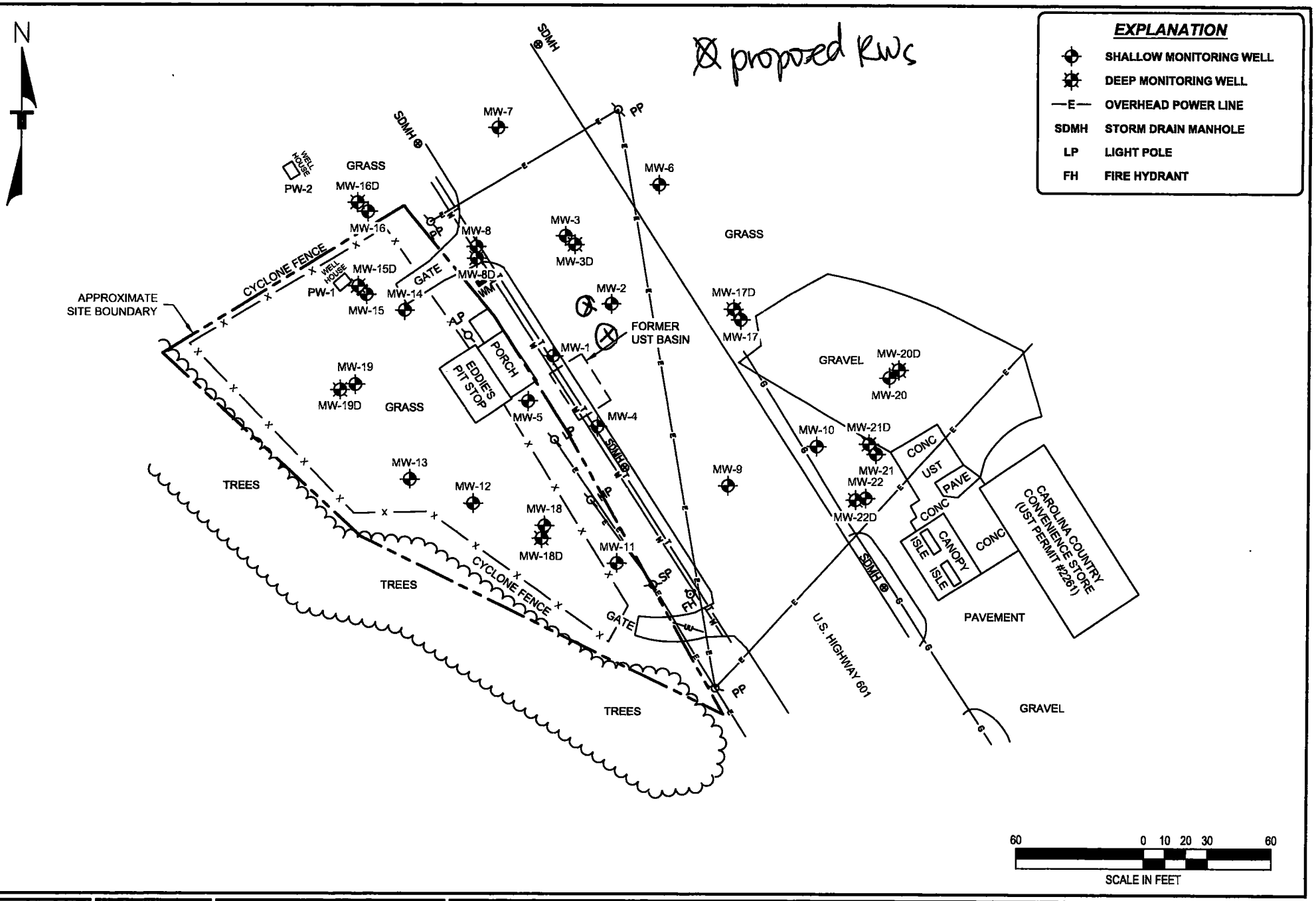
1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. 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 Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
5. If any of the information provided to the Agency changes, notification to Ashleigh Thrash (tel: (803) 898-0607 or e-mail: thrasham@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. Agency 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **July 9, 2015** **Approval #: UMW-26021**

Ashleigh Thrash

Ashleigh Thrash, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management



Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH
Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	JUNE 2015

Terracon
Consulting Engineers and Scientists
521 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9900

SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 2

Approved Cost Agreement 50584

Facility: 18871 EDDIES PIT STOP
THRASHAM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A1	EQUIPMENT	1.0000	1,020.00	1,020.00
		B1	PERSONNEL	2.0000	423.00	846.00
09 WELL INSTALLATION						
		HH	RECOVERY WELL (4 INCH DIA)	50.0000	45.00	2,250.00
10 SAMPLE COLLECTION						
		E1	GAUGE WELL ONLY	3.0000	7.00	21.00
16 SUBSEQUENT SURVEY						
		A1	SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL						
		C1	SOIL TREATMENT DISPOSAL	2.0000	60.00	120.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	27,259.25	3,271.11
23 EFR						
		A4	96 HOUR EVENT	1.0000	12,567.50	12,567.50
		C4	OFF GAS TREATMENT 96 HOUR	1.0000	780.00	780.00
		D	SITE RECONNAISSANCE	1.0000	203.25	203.25
		F1	EFFLUENT DISPOSAL	20,000.0000	0.44	8,800.00
		G	AFVR EQUIPMENT MOB	1.0000	391.50	391.50
				Total Amount		30,530.36

LETTER OF TRANSMITTAL

Terracon
521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

UST
OCT 12 2015
PROGRAM

TO Ms. Ashleigh Thrash

SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 9/28/15	JOB NO. 73098106
RE: Eddies Pit Stop Site-Specific Work Plan	
UST Permit #18871	

UST
21 tech
DOCKETING

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	DESCRIPTION
1		Site Specific Work Plan –Recovery Well Installation/ AFVR Event

THESE ARE TRANSMITTED as checked below:

☐ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections
☐ Resubmit ___ copies for approval
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints

REMARKS:

Enclosed is the SSWP for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: _____

_____

SIGNED: **Mike Hudgins**

If enclosures are not as noted, kindly notify us at once.

D H E C
PROMOTE PROTECT PROSPER

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

To: Ashleigh Thrash (SCDHEC Project Manager)
From: Mike Hudgins (Contractor Project Manager)
Contractor: Terracon Consultants UST Contractor Certification Number: 246

Facility Name: Eddie's Pit Stop UST Permit #: 18871
Facility Address: Route 2 & Highway 601, Pageland, SC
Responsible Party: South Carolina Department of Transportation Phone: 803-737-1395
RP Address: P.O. Box 191, Columbia, SC 29202-0191
Property Owner (if different): Eric Simpson
Property Owner Address: P.O. Box 1513, Lancaster, SC 29721
Current Use of Property: Vacant gas station.

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☐ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☑ Other Recovery Well install and 8 hr. AFVR event

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 Free product gaguing

Soil:

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

Air:

☐ BTEXN

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

_____ Soil _____ Water Supply Wells _____ Air _____ Field Blank
_____ Monitoring Wells _____ Surface Water _____ Duplicate _____ 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: 2 Estimated Footage: 25 feet per point
Monitoring Well development method (consistent with SOP): _____
Comments. if warranted:
The 4-inch recovery wells will be installed to a deep of 25 feet, screened from 10 to 25 feet. The well screens will be constructed with 0.02" slot sch 80 PVC with coarse-gained filter sand.

UST Permit #: 18871 Facility Name: Eddie's Pit Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 7 Field Work Completion: 14
Report Submittal: 42 # 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: 2 Tons Purge Water: 100 gallons of development IDW 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/repaired. well pads/bolts/caps to replace. details of AFVR event. etc.

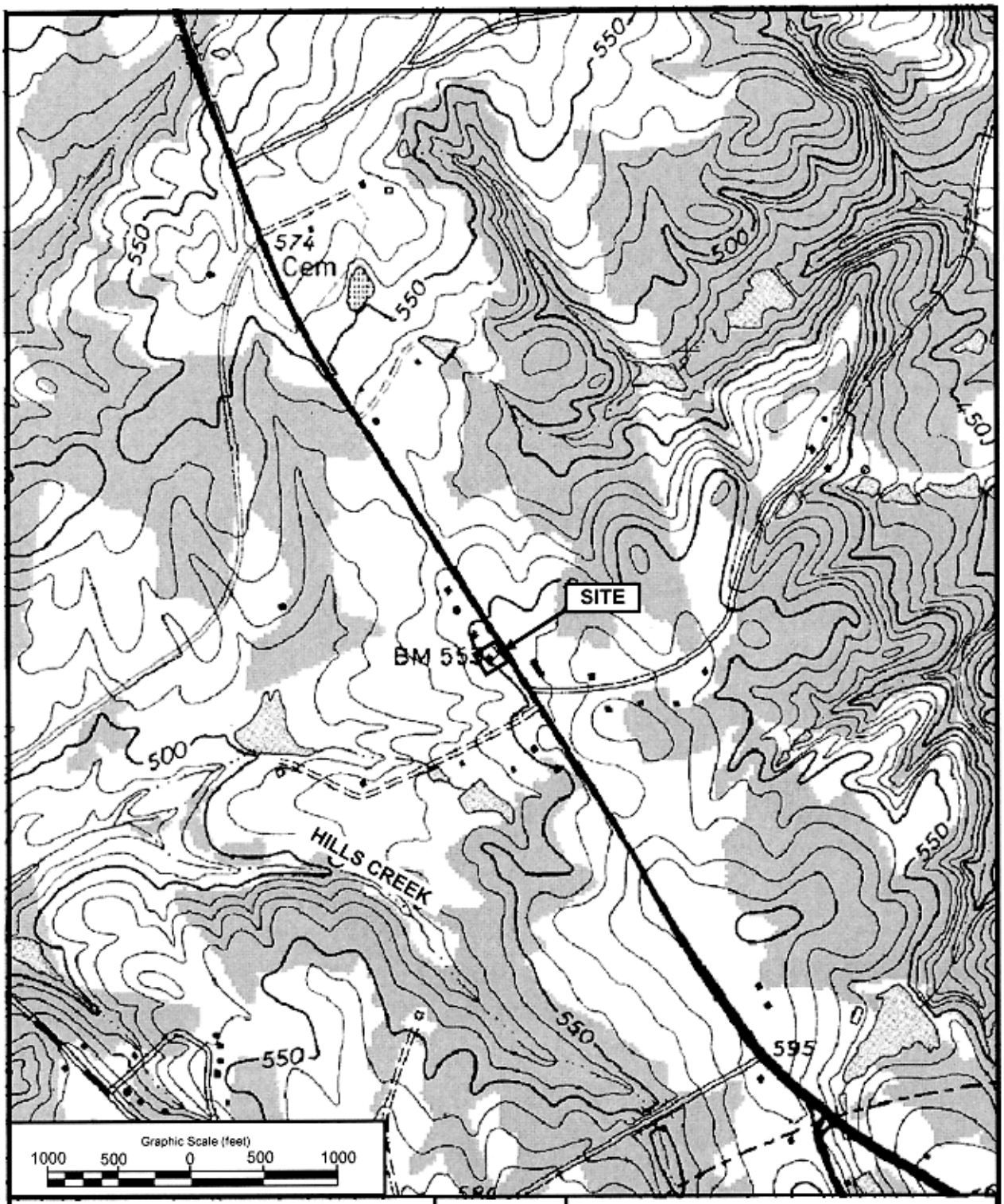
Due to the proposed locations of the recovery wells inside of US Hwy 601, three days of manned traffic control will be required to install recovery wells and perform an 8-hr. AFVR event. Cost for traffic control are included in the Miscellaneous line item 18 of the Assessment Component proposal. Per the SCDOT Chesterfield safe work zone requirements, lane closure will only be allowed for 8 hours during daytime hours. The work schedule is as follows: Day 1 - installation of recovery wells; Day 2 - well development and well head/pad completion; Day 3 (one week following installation) the 8 hr AFVR event will be performed. Four weeks after the 8-hr AFVR event, free product gauging will be performed on the newly installed recovery wells and monitoring well MW-2. Terracon will notify SCDHEC about the free product gauging data to determine if another 8 Hr AFVR event is warranted.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
____ Laboratory as indicated in ACQAP? (Yes/No) If no. indicate laboratory information below.
Name of Laboratory: no samples will be submitted for laboratory analysis
SCDHEC Certification Number:
Name of Laboratory Director:

____ Well Driller as indicated in ACQAO? (Yes/No) If no. indicate driller information below.
Name of Well Driller:
SCLLR Certification Number:

____ Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled. but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address. UST permit number. and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement. SCDHEC Form D-3664



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

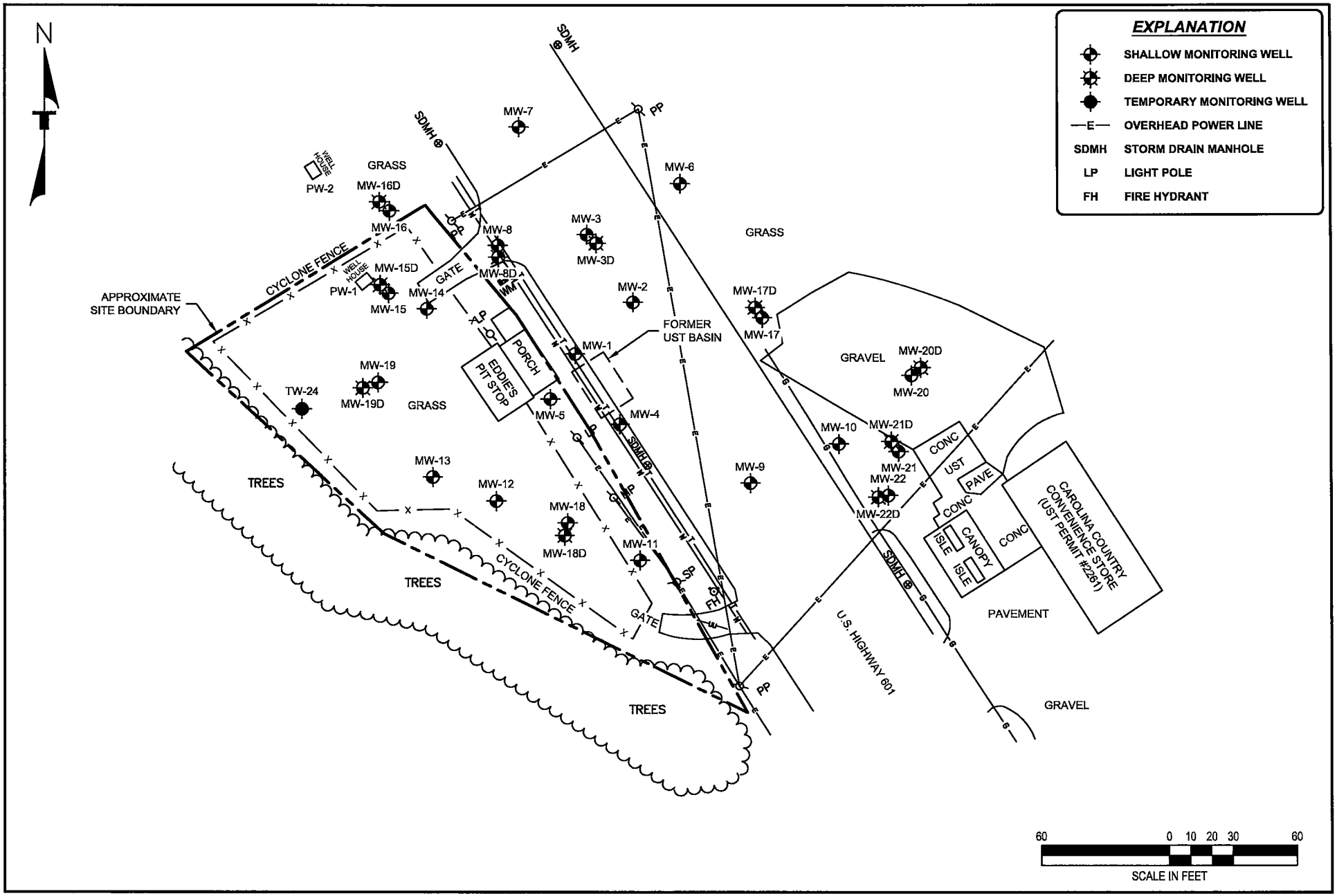
DATE: 1993
SCALE: 1 INCH = 1000 FEET
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	AUGUST 2012

Terracon
Consulting Engineers and Scientists
521 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9900

SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 3

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

9/14/2015

Facility Name: Eddie's Pit Stop

UST Permit #: 18871 **Cost Agreement #:** 50584

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment	1	each	$1,020.00	$1,020.00
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)	50	per foot	$45.00	$2,250.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge		per well/receptor	$60.00	$0.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater (No Purge or Duplicate)		per well/receptor	$28.00	$0.00
E1. Gauge Well only	3	per well	$7.00	$21.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank		each	$24.60	$0.00

Facility Name: Eddie's Pit Stop

UST Permit #: 18871 Cost Agreement #: 50584

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	$122.00	$0.00
AA1. Lead, Filtered		per sample	$13.80	$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60	$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40	$0.00
D1. PAH's		per sample	$60.60	$0.00
E1. Lead		per sample	$16.00	$0.00
F1. EDB by EPA 8011		per sample	$45.20	$0.00
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20	$0.00
G1. 8 RCRA Metals		per sample	$63.40	$0.00
H1. TPH (9070)		per sample	$41.00	$0.00
II. pH		per sample	$5.20	$0.00
J1. BOD		per sample	$20.00	$0.00
PP. Ethanol		per sample	$14.80	$0.00
11. **Analyses-Soil**				
Q1. BTEX + Naphth.		per sample	$64.00	$0.00
R1. PAH's		per sample	$64.04	$0.00
S1. 8 RCRA Metals		per sample	$56.40	$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00	$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96	$0.00
W1. Grain size/hydrometer		per sample	$104.00	$0.00
X1. Total Organic Carbon		per sample	$30.60	$0.00
11. **Analyses-Air**				
Y1. BTEX + Naphthalene		per sample	$216.00	$0.00
11. **Analyses-Free Phase Product**				
Z1. Hydrocarbon Fuel Identification		per sample	$357.00	$0.00
12. **Aquifer Characterization**				
A1. Pumping Test*		per hour	$23.00	$0.00
B1. Slug Test*		per test	$191.00	$0.00
C1. Fractured Rock		per test	$100.00	$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00	$0.00
14. **Fate/Transport Modeling**				
A1. Mathematical Model		each	$100.00	$0.00
B1. Computer Model		each	$100.00	$0.00
15. **Risk Evaluation**				
A. Tier I Risk Evaluation		each	$300.00	$0.00
B1. Tier II Risk Evaluation		each	$100.00	$0.00
16. A1. **Subsequent Survey***	1	each	$260.00	$260.00
17. **Disposal (gallons or tons)***				
AA. Wastewater	100	gallon	$0.56	$56.00
BB. Free Product		gallon	$0.50	$0.00
C1. Soil Treatment/Disposal	2	ton	$60.00	$120.00
D1. Drilling fluids		gallon	$0.42	$0.00
18. **Miscellaneous (attach receipts)**				
3 Days (2 days well install, 1 day AFVR)	3	each	$2,250.00	$6,750.00
		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

Facility Name: Eddie's Pit Stop

UST Permit #: 18871 **Cost Agreement #:** 50584

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*	1	each	$1,375.00		$1,375.00
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	10000	gallon	$0.44		$4,400.00
G. AFVR Mobilization/Demobilization	1	each	$391.50		$391.50
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
I1. 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 Coordination	12%	percent	$11,312.50		$1,357.50
TOTAL					$19,420.00

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

STAY ALERT SAFETY SERVICES, INC.

Stay Alert is a SCDOT approved DBE/WBE Sub-Contractor & Supplier.

July 23, 2015

To: Terracon; Regan Norris

From: David Crowell, Stay Alert Safety Services, Inc.

Re: (Traffic Control) US 601 Pageland SC

Stay Alert Safety Services will install the lane closures needed for the below lump sum price. Price includes all material and labor to perform work needed. ** Price assumes up to a 10 hour shift with a lane closure in one direction at a given time with a length of 2 miles or less. If additional time is needed, multiple lane closures, or length of closures to be greater than there will be an additional charge.

LUMP SUM PRICE:

Single Lane Closure	$2,250.00/EA

Please call if we can assist in any way @ (803)783-4250 or (336)462-1771. Please include SC sales tax as applicable.

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

UST PROGRAM
SC DEPARTMENT OF HEALTH AND
ENVIRONMENTAL CONTROL
2600 BULL STREET
COLUMBIA, SC 29201

RECEIVED
MAR 16 2006
UNDERGROUND STORAGE
TANK PROGRAM

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits. 1887

1. Article Addressed to:

Mr. Eddie Johnson
Rt 2 US HWY 601 N
PAGELAND, SC 29728

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 3-15-06

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7001 2510 0008 4156 2327

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia SC 29201
Phone (803) 898-4350 Fax (803) 898-4330

SEP 19 2003

UST Docket 22T

MR EDDIE JOHNSON
RT 2 US HWY 601 N
PAGELAND SC 29728

Re: Eddie's Pit Stop, Rt. 2, US Hwy 601 North
UST Permit #18871; Cost Agreement #20135; MWA #UMW-17651
Release reported August 29, 2002
Initial Groundwater Assessment (IGWA) Report received August 1, 2003
Chesterfield County

Dear Mr. Johnson:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced IGWA report submitted by ARM Environmental Services, Inc. on your behalf. The report indicates that groundwater concentrations of benzene, toluene, ethylbenzene, naphthalene, EDB and lead are above risk-based screening levels (RBSLs). To determine what risk the release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of the scope of work as outlined in the enclosed Tier I Assessment document is necessary. Since the above scope of work is detailed in the Tier I Assessment document, a separate plan is not required. **Please note that if the UST System was in operation prior to 1991, lead and EDB analyses is required. Also, all water wells within 250 feet of the former UST must be sampled. Please be advised that only EPA Method 8260B will be accepted for purgeable aromatics.**

According to our records, the release was reported to the SCDHEC on August 29, 2002. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first $25,000 for site rehabilitation. To insure that any expenditures you make apply to this $25,000 deductible, it is prudent for this agency to pre-approve such costs along with your technical plan of action. By law, the SUPERB account cannot compensate any costs that are not pre-approved. Eligible costs exceeding the $25,000 deductible can be compensated from the SUPERB Account. Cost Agreement #20135 has been established to track the allowable costs associated with this Tier I. Please include the cost agreement number when submitting your invoice.

To proceed with the qualification process for the State Underground Petroleum Environmental Response Bank (SUPERB) Act, the following information is required:

! Written confirmation of the existence or nonexistence of an environmental insurance policy for this site. **This information must be signed by the responsible party and a notary public.** For your convenience, an insurance statement form has been enclosed. If an environmental insurance policy existed at the time of the release, a copy of the policy with all endorsements must be submitted with the insurance statement. **Please complete and return the enclosed insurance information form within 14 days from the date of this letter.**

Please note that the maximum approved amount for the Tier I Assessment is **$10,880.00**. The total

includes costs for completion of up to 75 feet of permanent monitoring well footage. Upon receipt of the signed Tier I Invoice, Tier I Report, and a copy of your canceled check (front and back) or a notarized statement from the contractor verifying payment for this scope of work, up to **$10,880.00** may be applied toward your deductible.

Our records indicate that an Owner/Operator Information Sheet has not been filed for the release. **Please complete and return the enclosed Owner/Operator Information Sheet within 14 days from the date of this letter (note that all rehabilitation activities associated with a UST release must be performed by a SCDHEC certified site rehabilitation contractor as required by R.61-98).**

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Program by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

Implementation of the Tier I should proceed upon receipt of this correspondence. Approval to install three permanent monitoring wells is enclosed. **The report and invoice should be submitted within 90 days from the date of this letter**. The SCDHEC reserves the authority to only apply costs to your deductible for work properly performed and/or technically justified in accordance with established criteria. The Program grants pre-approval for the transportation of the investigative derived waste (virgin petroleum contaminated soil and groundwater) from the referenced site to a permitted treatment facility. All investigative derived waste must be properly stored in labeled containers or covered with plastic as appropriate. All contaminated investigated derived waste must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest and approval letter from the receiving facility must be included as an appendix to the final report. If the levels of petroleum contamination based on laboratory analysis are below treatment levels, please contact the project manager for approval to dispose of the investigative derived waste on site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or groundwater.

On all correspondence regarding this site and scope of work, please reference UST Permit #18871 and cost agreement #20135. If you have any questions concerning this correspondence, please contact me at (803) 896-6649 or 1-800-826-5435 (within South Carolina only).

Sincerely,

John D. Surber, Jr., Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division
Underground Storage Tank Program

enc: Monitoring Well Approval
Information Sheet
Insurance Information

cc: Technical File (Copy of Monitoring Well Approval)
Financial File
Read File

LETTER OF TRANSMITTAL

Terracon
521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ashleigh Thrash

SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 7/25/16	JOB NO. 73098106
RE: Eddies Pit Stop Recovery Well and Installation Report	
UST Permit # 18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

UST
JUL 27 2016
PROGRAM
UST
DOCKETING

COPIES	DATE	DESCRIPTION
1	7/25/16	Recovery Well Installation and AFVR Report (CD& Hard Copy)

THESE ARE TRANSMITTED as checked below:

- ☐ For approval
- ☐ For your use
- ☐ As requested
- ☐ For review and comment
- ☐ Approved as submitted
- ☐ Approved as noted
- ☐ Returned for corrections
- ☐ Resubmit ___ copies for approval
- ☐ Submit ___ copies for distribution
- ☐ Return ___ corrected prints

REMARKS:

Enclosed is the Assessment Report for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: Tim Hunter / SCDOT

SIGNED: **Mike Hudgins**

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Ashleigh Thrash

SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 7/25/16	JOB NO. 73098106
RE: Eddies Pit Stop Recovery Well and Installation Report	
UST Permit # 18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	DESCRIPTION
1	7/25/16	Recovery Well Installation and AFVR Report (CD& Hard Copy)

THESE ARE TRANSMITTED as checked below:

☐ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections
☐ Resubmit ___ copies for approval
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints

REMARKS:

Enclosed is the Assessment Report for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: Tim Hunter / SCDOT

SIGNED: **Mike Hudgins**

If enclosures are not as noted, kindly notify us at once.

Report of Recovery Well Installation and AFVR

Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina

UST PERMIT # 18871

July 25, 2016
Terracon Project No. 73098106

Prepared for:
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202

Prepared by:
Terracon Consultants, Inc.
Columbia, South Carolina

Offices Nationwide Established in 1965
Employee-Owned terracon.com
Terracon
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July 25, 2016

Ms. Ashleigh Thrash
South Carolina Department of Health
and Environmental Control
Bureau of Land and Waste Management
UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: ***Report of Recovery Well Installation and AFVR***
Eddies Pitt Stop
Route 2, US Highway 601 North, Pageland, South Carolina
UST Permit # 18871; C.A. 50584
Terracon Project No. 73098106

Dear Ms. Thrash:

On behalf of the South Carolina Department of Transportation, **Terracon Consultants, Inc.** is pleased to submit this Recovery Well Installation and AFVR Report for the Eddies Pitt Stop in Pageland, South Carolina. This report summarizes the results of the assessment activities and our conclusions and recommendations.

If you have any questions regarding the contents of this report, or if you need additional information, please contact us at (803) 741-9000.

Sincerely,

Terracon Consultants, Inc.
UST Contractor Certification No. 246

Regan Norris
Environmental Scientist

P. Michael Hudgins, P.G.
Senior Hydrogeologist
S.C. Registration No. 1137

P. MICHAEL HUDGINS REGISTERED NO. 1137 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Attachment

cc: Tim Hunter/SCDOT

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Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

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1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) has completed recovery well installations and Aggressive Fluid Vapor Recovery (AFVR) at the Eddies Pitt Stop site located in Pageland, South Carolina. The purpose of this work was to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC) from ground water from a previously reported petroleum underground storage tank (UST) release. The work was performed in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Cost Agreement #50584 dated July 17, 2015, Annual Contractor Quality Assurance Plan (ACQAP) approved April 2, 2013, and Site Specific Work Plan (SSWP) received by SCDHEC from Terracon on February 2, 2015. This report includes a description of the activities performed during this assessment, along with our current findings, conclusions and recommendations.

1.1 Site Description

The site is composed of a vacant gas station, owned by South Carolina Department of Transportation (SCDOT). The site is bound to the east by US Highway 601 and the Carolina Country Convenience Store (UST 02261); to the south by agricultural land; to the west by the remainder of the former Eddie's Pit Stop property; and to the north by residential land. A topographic map showing the site location is presented as Figure 1.

Carolina Country Convenience Store (UST Permit # 02261) currently operates an UST system located approximately 150 feet east from the former Eddie's UST basin across Highway 601. According to the SCDHEC database, the site has a reported release dated September 30, 2008 and a confirmed clean up date of November 6, 2008.

Two irrigation or water supply wells (PW-1 and PW-2) are located within a ½ mile radius of the site. PW-1 is an unused well on the subject site. PW-2 is used as an irrigation supply well located offsite on the adjacent residential property (Casper residence). The site and surrounding area is serviced drinking water from a municipal water supply system.

1.2 Site History

The site has been defined as the area of the former USTs, which is now located within the SCDOT right-of-way of Highway 601. The right-of-way and US Highway 601 were expanded in 2001 as part of road improvements in Chesterfield County. Eddies Pitt Stop convenience store/gas station previously operated one 750 gallon and one 2,000 gallon gasoline UST. These USTs were abandoned by removal in August 2002, and a release was reported with the UST closure in August 2002. Directives to conduct Tier I and Tier II Assessments were issued by the SCDHEC in 2009 and 2012, respectively, which included installation of 22 shallow wells and 10 deep monitoring wells. A site map with well locations and utilities is shown as Figure 2. Details of these assessments can be found in the previous assessment reports. The results of the previous assessments indicated:

- Ground water was encountered at depths generally ranging from 17 to 20 feet and is observed to flow radially toward the south at a calculated rate of 13 ft/yr;

- Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 14 shallow wells located in the vicinity of the USTs;

- Benzene and/or naphthalene were detected at concentrations above RBSLs in seven deep wells;

- 1,2-dibromoethane (EDB) was detected in two samples collected from and unused water supply well (PW-1) at concentrations above the laboratory reporting limits. 1,2-dichloroethane (1,2-DCA) was detected in the active irrigation supply well located on the adjacent property;

- The horizontal extent of the contaminants in the upper portion of the shallow aquifer downgradient from the former UST system was relatively defined by the monitoring well network;

- Elevated hydrocarbon levels were detected above RBSLs in four background monitoring wells. These detections may be associated with a potential separate release from the upgradient Carolina Convenience UST location (Permit #02261).

In March 2015, based on the Tier II Assessment results, SCDHEC issued cost agreement # 49943 for a comprehensive ground water sampling. The results of this assessment indicated:

- Ground water occurs within the upper portion of the shallow aquifer under unconfined conditions at depths ranging from approximately 12 to 18 feet in the lower portion.

- The flow direction in the upper portion of the shallow aquifer is in a radial pattern generally toward the southwest and toward the west in the lower portion of the shallow aquifer.

- Approximately 0.02 ft. of free product was measures in monitoring well MW-2.

- Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 7 of the 20 shallow monitoring wells.

- 1,2 DCA was detected in ground water in seven wells at concentrations above RBSLs.

- EDB was detected above the RBSL in six wells.

- Petroleum oxygenates t-butanol (TBA), and tert-amyl alcohol (TAA) were detected in two monitoring wells above Action Levels (Als) established by the SCDHEC.

- Benzene and/or naphthalene was detected at concentrations above RBSLs in four of the ten deep wells (MW-3D, MW-15D, MW-16D and MW-18D) located north, northeast and southwest of the former USTs.

On July 17, 2015 the SCDHEC issued a directive for the installation of two recovery wells followed by a 96 hour AFVR event. However, due to the location of these wells on a high traffic road, it was decided between the SCDHEC project manager to conduct a single 8-hour event, allowing for the potential for product to return to the extraction well. This report includes a summary of the field methods utilized along with the results of AFVR event #1 and our conclusions and recommendations.

1.3 Site Geology and Hydrogeology

The site is located within the Carolina Slate Belt terrain of the Lower Piedmont physiographic province. The Carolina Slate Belt province consists of weathered low grade metamorphic rocks consisting of mixed gneiss; intermediate and felsic volcanic rocks; tuffaceous epiclastic rocks; and mafic and felsic volcanic rocks.

Surficial soils at the site included sands, silty/clayey sands, sandy silt, and saprolite. A thick sequence of low permeability clayey and silty sand was encountered beneath the site to depths ranging from approximately 15 to 30 feet across the site. Below this unit, partially weathered rock as hard clayey silt (saprolite) was encountered at depths ranging from 60 to 65 feet across the site, where air rotary was required for drilling, to the investigated depth of 98 feet.

Ground water occurs within the shallow aquifer under unconfined conditions. The depth to ground water in the study area ranged from approximately 8 to 20 feet during the initial assessment.

2.0 RECOVERY WELL INSTALLATION

Two ground water recovery wells (RW-1 and RW-2) were installed on December 18, 2015 as part of this investigation in an area identified with free product, as approved by the SCDHEC project manager. Monitoring well and recovery well locations and pertinent site features are included on Figure 2. The borings for the wells were drilled to a depth of 25 feet using 4-1/4-inch ID continuous-flight hollow stem augers (HSAs) equipped with an 8-1/4-inch but. Soil samples were logged in the field by the on-site geologist. The well was installed by a certified driller in accordance with the South Carolina Well Standards and Regulations R.61-71-H.2.e.

The recovery wells were constructed of 4-inch diameter schedule 40 PVC casing with 15 feet of 4-inch diameter PVC well screen. The screens have a manufactured slot size of 0.020-inch. An appropriately graded sand filter pack was placed within the annulus opposite each well screen to a maximum height of approximately two feet above the top of the well screen. A minimum two-

foot bentonite pellet layer was placed above the sand filter pack in each well and hydrated. The remaining annulus of each well was grouted to land surface with cement grout. The wells were completed below-grade within steel protective manhole covers constructed in a 2x2 foot concrete pad around each well manhole. Well construction details are included on the Geologist Logs and Water Well Records and on Table 1, below.

After installation, the wells were developed by surging and pumping with a submersible pump until the wells produced relatively clear water. Soil cuttings and development water generated during well drilling and installation were collected and disposed by Regulatory Solutions, Gaston, South Carolina. The disposal manifests are attached. The vertical elevation of the top of the well casings was surveyed by Terracon personnel, referenced to the existing site monitoring wells.

Ground water levels were recorded in the shallow wells on December 18, 2015. Water levels were measured in all existing site monitoring wells using an electric water level indicator. A summary of well construction and water level data is presented below.

WELL NUMBER	DATE MEASURED	TOTAL DEPTH (bgs)	SCREEN INTERVAL (bgs)	TOP OF CASING ELEVATION	DEPTH TO GROUND WATER (btoc)	GROUND WATER ELEVATION
RW-1	12/18/2015	25	10-25	553.32	8.55	544.77
RW-2	12/18/2015	25	10-25	553.57	8.29	545.28

Lane closures of Highway 601 during well installation were conducted by a private traffic control service, Safety Alert Services, Inc. of Kernersville, North Carolina. A copy of the invoice for these services is included with the SUPERB invoice.

3.0 AGGRESSIVE FLUID VAPOR RECOVERY

3.1 AFVR METHODS

Aggressive Fluid Vapor Recovery (AFVR) was utilized to extract free-phase and dissolved-phase hydrocarbons from the upper portion of the shallow aquifer at the site. AFVR is a proven remediation method that utilizes high vacuum pressures and flow rates to remove multiple phase (vapor, dissolved, and free phase) VOCs from the subsurface. Figure 2 is a site map showing monitoring well locations.

The AFVR event was performed using trailer-mounted vacuum extraction rig equipped with a rotary claw pump and an air-water separator unit. Prior to system start up, the trailer mounted unit was grounded to the land surface with a copper grounding rod, and connected to the trailer by a metal ground lead, thus reducing the potential for static electricity to cause an explosion hazard. A one-inch diameter PVC stinger tube with an airtight 2-inch by 1-inch well seal was set

approximately six-inches into the water table at MW-2. A 1.25-inch diameter PVC stinger tube with a 4-inch by 1.25-inch well seal was installed in RW-1 and RW-2. The stinger tubes were installed to minimize water production and maximize product recovery and contaminant mass removal from the vadose zone/water table interface.

The depths of the stingers were adjusted to a depth of 31.10 (MW-2), 23.23 (RW-1), and 24.00 (RW-2), during the eight hour event. Stinger depths are listed on the Vacuum Influence on Localized Water Table sheets, included in Appendix A.

Vacuum pressures were monitored at select monitoring wells during the event, and were adjusted to optimize the flow to the system. System readings were recorded for off-gas concentrations, flow measurements, and vacuum pressure throughout the event.

Off-gas concentrations were recorded with a Bacharach TLV Sniffer, and the off-gas velocity was measured using an anemometer at the system exhaust stack. The concentrations were recorded on the AFVR Field Data Sheet, included in Appendix A.

On February 02, 2016, an eight-hour AFVR event (Event #1) was performed concurrently on monitoring wells MW-2, RW-1, and RW-2. Prior to the start of the AFVR event, free product was detected in MW-2 with a thickness of 0.01. No free product was detected after completion of the AFVR event. The velocity and VOC concentration of off-gas from the vacuum rig were measured using an anemometer and a TLV Sniffer.

Differential pressures (vacuum) measurements were recorded with a magnehelic gauge at monitoring wells MW-6 and MW-8. Vacuum measurements recorded at these monitoring wells did not indicate a vacuum present, likely due to a high water table recorded in the wells, recorded above the top of the well screens. This data was recorded on the Vacuum Radius of Influence Data Sheet, included in Appendix A.

A total of 477 gallons of groundwater were extracted during Event #1. Petroleum-impacted groundwater generated during the AFVR event was disposed by Regulatory Solutions, Inc. Gaston, South Carolina. The disposal manifest for the extracted ground water generated is included in Appendix B.

Lane closures of Highway 601 during the AFVR event were conducted by a private traffic control service, Safety Alert Services, Inc. of Kernersville, North Carolina. A copy of the invoice for these services is included with the SUPERB invoice.

3.2 AFVR RESULTS

VOC concentrations recorded during extraction were recorded at 100 parts per million at the start of the event, rising to 800 ppm after the first 4 hours, and ranging from 800 ppm to 1,200 ppm for the remainder of the event.

Approximately 0.2 gallons (1.24 pounds) of volatile compounds were extracted from the central portion of the shallow aquifer as a result of this AFVR event. No free product was detected in the extraction wells after the event.

4.0 CONCLUSIONS AND RECOMMENDATIONS

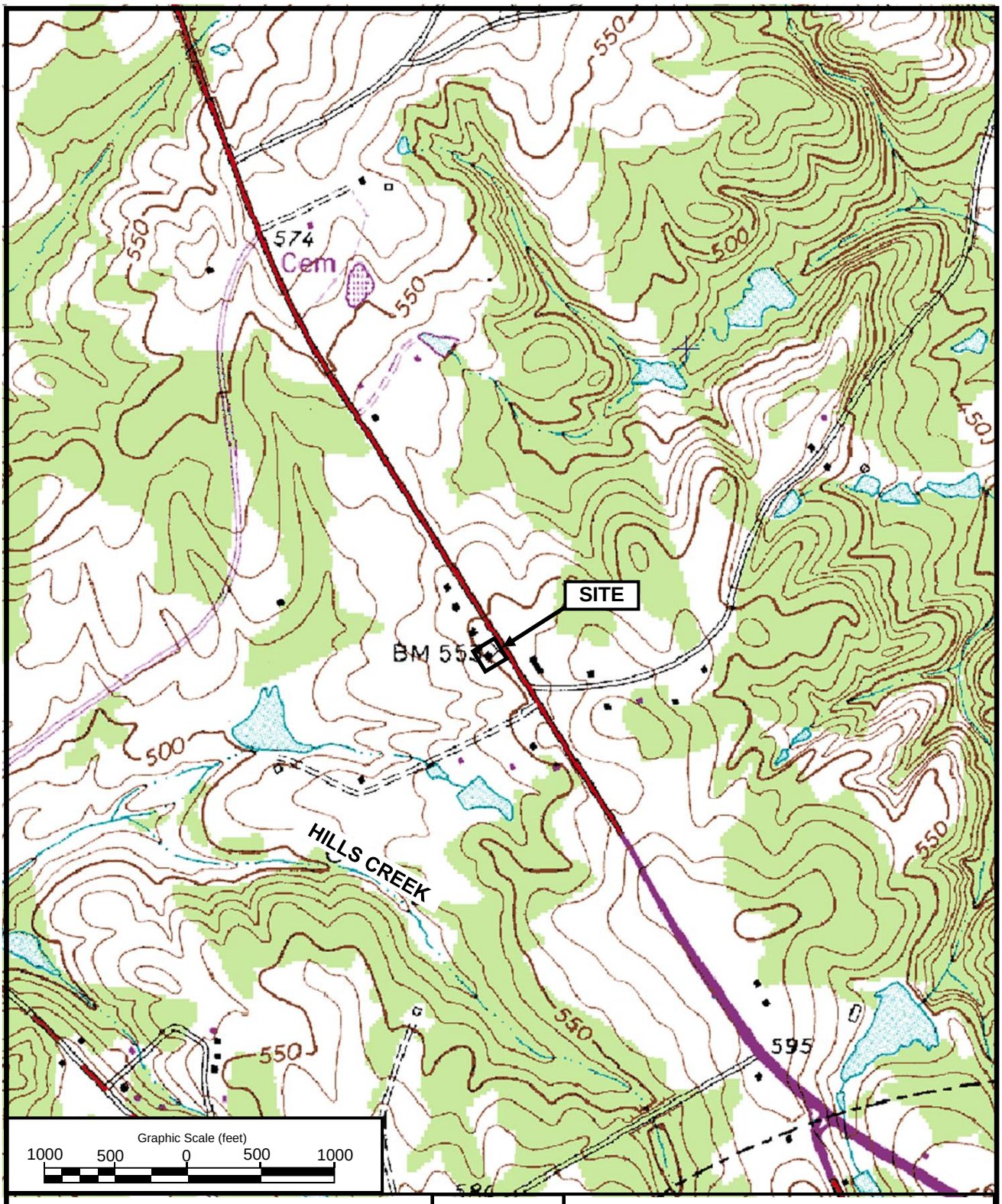
Based on the total hydrocarbon recovery of 1.24 pounds during the event, AFVR appears to be an effective remediation mechanism for petroleum impacted ground water at this site. Portions of the dissolved plume were removed in the vicinity of monitoring wells MW-2, RW-1 and RW-2.

Terracon recommends a comprehensive groundwater sampling event as the next scope of work at this site. If high dissolved-phase hydrocarbons persist, additional 8-hour AFVR events are suggested to further reduce contaminant concentrations in the source area. Once the high concentrations of dissolved contaminants are reduced, this site may a candidate for monitored natural attenuation.

FIGURES

Figure 1 **Site Location Map**

Figure 2 **Site Map**



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

DATE: 1993
SCALE: 1 INCH = 1000 FEET

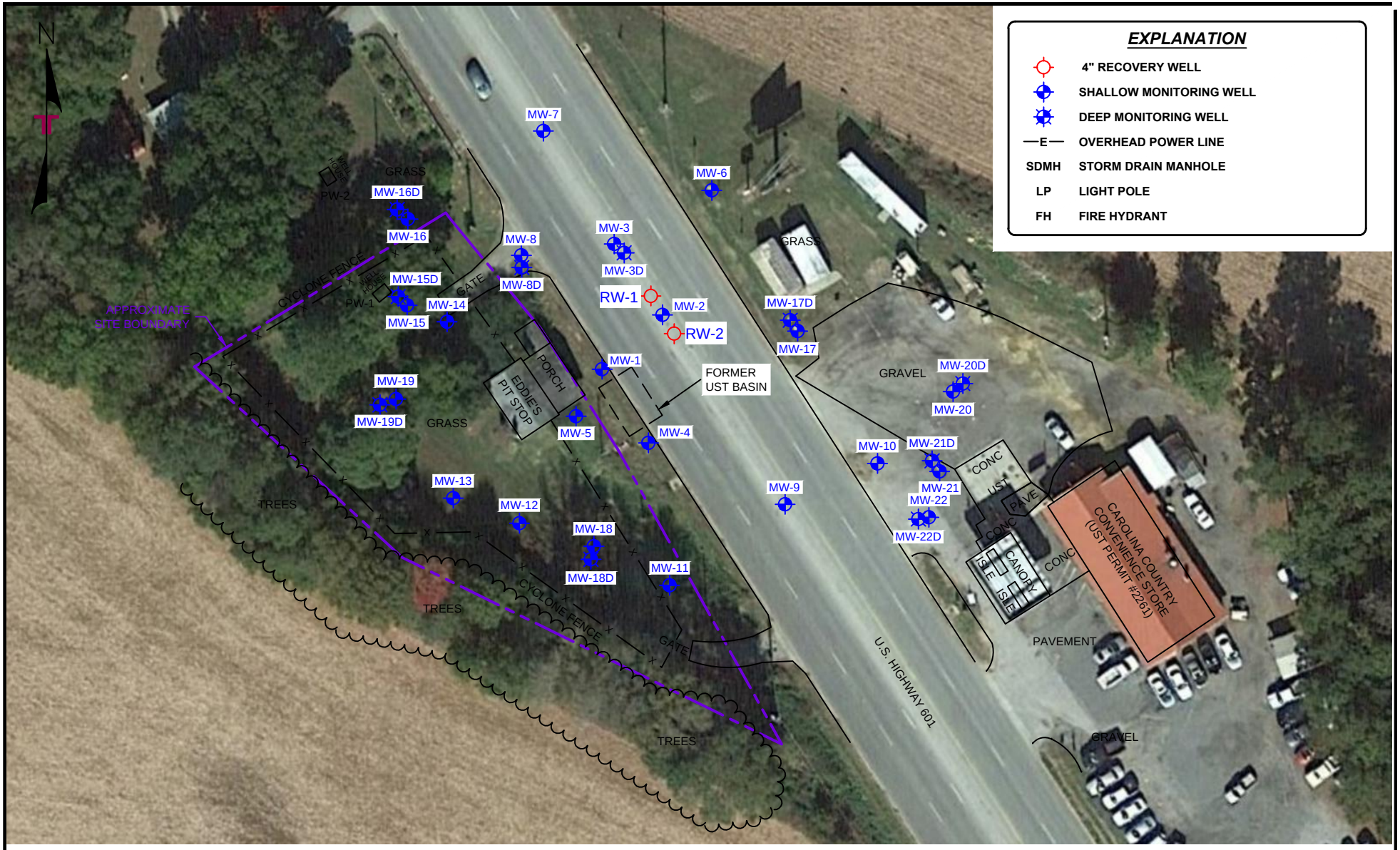
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr: RWN	Project No. 73098106	Terracon Consulting Engineers and Scientists	SITE MAP WITH 4" RECOVERY WELL LOCATIONS
Drawn By: PTK	Scale: AS SHOWN	521 CLEMSON ROAD COLUMBIA, SC 29229	EDDIE'S PIT STOP - SCDOT ROUTE 2, US HIGHWAY 601 NORTH PAGELAND, SOUTH CAROLINA UST PERMIT #18871
Checked By: RWN	File No. 73098106	PH. (803) 741-9000 FAX. (803) 741-9900	Figure 2
Approved By: PMH	Date: JULY 2015		

Appendix A

AFVR Data Sheets

AVFR FIELD DATA SHEET

Site: Eddies Pit Stop - Padgeland, SC; UST Site # 18871 | **Project No.: 73098106** | **Dates: 2/2/16** | **Event #: 1**

	Start Time hh:mm	End Time hh:mm	Time Interval (min)	Elapsed Time (hours)	VOC Concentrations			Off-Gas Velocity (FPM)			Total Flow (CFM)	VOC Emissions		
					Initial (PPM)	Ending (PPM)	Average (PPM)	Initial (FPM)	Ending (FPM)	Average (FPM)		Rate (lbs/hr)	Total (lbs)	Cumulative Total (lbs)
MW-2, RW-1, RW-2	8:00	8:30	30	0.5	100	260	180	1035	608	822	73.94	0.16	0.08	0.08
	8:30	9:00	30	1.0	260	240	250	608	337	473	42.53	0.13	0.06	0.06
	9:00	9:30	30	2	240	240	240	337	324	331	29.75	0.08	0.04	0.10
	9:30	10:00	30	2.0	240	240	240	324	342	333	29.97	0.08	0.04	0.15
	10:00	10:30	30	2.5	240	200	220	342	327	335	30.11	0.08	0.04	0.19
	10:30	11:00	30	3.0	200	150	175	327	293	310	27.90	0.06	0.03	0.22
	11:00	11:30	30	3.5	150	170	160	293	289	291	26.19	0.05	0.02	0.24
	11:30	12:00	30	4.0	170	800	485	289	252	271	24.35	0.14	0.07	0.31
	12:00	12:30	30	4.5	800	100	450	252	297	275	24.71	0.13	0.07	0.38
	12:30	13:00	30	5.0	100	1,100	600	297	274	286	25.70	0.18	0.09	0.47
	13:00	13:30	30	5.5	1,100	1,100	1,100	274	226	250	22.50	0.29	0.15	0.61
	13:30	14:00	30	6.0	1,100	200	650	226	247	237	21.29	0.16	0.08	0.69
	14:00	14:30	30	6.5	200	1,000	600	247	272	260	23.36	0.17	0.08	0.78
	14:30	15:00	30	7.0	1,000	1,200	1,100	272	253	263	23.63	0.31	0.15	0.93
	15:00	15:30	30	7.5	1,200	1,100	1,150	253	250	252	22.64	0.31	0.15	1.08
	15:30	16:00	30	8.0	1,100	1,200	1,150	250	249	250	22.46	0.30	0.15	1.24

Total Extraction Time..... **8.0** **hours**
Total Liquid Volume..... **477** **gallons**
Total Liquid-phase Hydrocarbon..... **0.0** **gallons**
Total Vapor-phase Hydrocarbon (tot lbs ÷ 5.9)..... **0.2** **gallons**
Total Hydrocarbon Recovery:..... **0.2** **gallons**

TOTAL lbs of VOC emissions = 1.24

Notes:
1. VOC concentrations measured with an Intrinsically Safe TLV (Threshold-Limit Value) sniffer.
2. Off-gas velocity measured with a Dwyer Instruments Series 471 Thermo-Anemometer.
3. Off-gas stack diameter = 4 in.
4. CFM (cubic feet per minute) = FPM X crossectional area of stack (0.089 sq.feet).
5. lbs/hr = CFM * PPM * 0.0000118
6. Empty boxes indicate measurements which were not recorded.

Inputs

Off Gas Stack Diameter = 4 in.

Event Information

Technician:	David Lesesne
Vacuum Pump:	Squire-Cogswell /C15
Vacuum Type:	Rotary Claw Pump
Event State:	SC
Event County:	Chesterfield
Event City:	Pageland
UST No.:	4593
Disposal Facility:	Reglatory Solutions
Manifest Number:	22558
Temp:	75 ºF

VACUUM RADIUS OF INFLUENCE

Site: Eddies Pit Stop - Padgeland, SC; UST Site # 18871			Project No.: 73098106			Dates: 2/2/16				Event #: 1
Date	Time	Elapsed Time	System Vacuum	MW-2	RW-1	RW-2	MW-6	MW-8			
				Stinger Head			Distance to Nearest Fluid/Vapor Recovery Well				
							15ft	15ft			--
				Vacuum (Inches of Mercury Hg)							
02/02/16	8:00	Start	21	20	21	19.5	< 0.1	< 0.1			
	8:30	0.5	21.5	20.0	21.0	19.5	< 0.1	< 0.1			
	9:00	1.0	21.0	20.5	21.0	19.5	< 0.1	< 0.1			
	9:30	1.5	20.5	19.5	21.0	19.0	< 0.1	< 0.1			
	10:00	2.0	21.0	20.0	20.5	19.5	< 0.1	< 0.1			
	10:30	2.5	20.5	20.0	20.5	20.0	< 0.1	< 0.1			
	11:00	3.0	21.0	19.0	20.0	21.0	< 0.1	< 0.1			
	11:30	3.5	21.5	21.0	21.0	19.0	< 0.1	< 0.1			
	12:00	4.0	21.0	19.0	20.0	20.0	< 0.1	< 0.1			
	12:30	4.5	21.0	21.0	21.0	19.5	< 0.1	< 0.1			
	13:00	5.0	21.5	20.5	21.5	20.0	< 0.1	< 0.1			
	13:30	5.5	21.5	21.0	21.5	21.0	< 0.1	< 0.1			
	14:00	6.0	22.0	21.5	22.0	21.5	< 0.1	< 0.1			
	14:30	6.5	22.0	21.0	22.0	21.5	< 0.1	< 0.1			
	15:00	7.0	23.0	22.0	23.0	22.0	< 0.1	< 0.1			
	15:30	7.5	24.0	23.0	23.0	23.0	< 0.1	< 0.1			
	16:00	8.0	24.0	23.0	24.0	23.0	< 0.1	< 0.1			

Notes:

1) Hg- Inches Of Mercury

2) Vacuum Recorded as a Negative Pressure in Hg

STINGER DEPTH ADJUSTMENTS

Eddies Pit Stop - Padgeland, SC UST Site # 18871			Project No.: 73098106				Date: 2/2/16			Event #: 1
			MW-2			RW-1			RW-2			
			Depth to Water	Depth to Product	Product Thickness	Depth to Water	Depth to Product	Product Thickness	Depth to Water	Depth to Product	Product Thickness	
	Pre:		7.59	7.58	0.01	7.73	--	--	7.45	--	--	
	Post:		27.71	--	--	22.11	--	--	23.12	--	--	
			Historical Low DTW		33.10	Historical Low DTW		33.10	Historical Low DTW		33.10	
			Stinger Depth (feet btoc)									
Date	Time	Elapsed Time	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	
02/02/16	8:00	0	8.09	0	25.0	8.23	0.5	24.87	7.95	0.5	25.15	
	8:30	0.5	8.59	0.5	24.5	8.73	0.5	24.37	8.45	0.5	24.65	
	9:00	1	9.09	0.5	24.0	9.23	0.5	23.87	8.95	0.5	24.15	
	9:30	1.5	9.59	0.5	23.5	9.73	0.5	23.37	9.45	0.5	23.65	
	10:00	2.0	10.09	0.5	23.0	10.23	0.5	22.87	9.95	0.5	23.15	
	10:30	2.5	10.59	0.5	22.5	10.73	0.5	22.37	10.45	0.5	22.65	
	11:00	3.0	11.09	0.5	22.0	11.23	0.5	21.87	10.95	0.5	22.15	
	11:30	3.5	13.09	2.0	20.0	11.73	0.5	21.37	11.45	0.5	21.65	
	12:00	4.0	15.09	2.0	18.0	12.23	0.5	20.87	11.95	0.5	21.15	
	12:30	4.5	17.09	2.0	16.0	13.23	1.0	19.87	12.95	1.0	20.15	
	13:00	5.0	19.09	2.0	14.0	14.23	1.0	18.87	13.95	1.0	19.15	
	13:30	5.5	21.09	2.0	12.0	15.23	1.0	17.87	14.95	1.0	18.15	
	14:00	6.0	23.09	2.0	10.0	16.23	1.0	16.87	15.95	1.0	17.15	
	14:30	6.5	25.09	2.0	8.0	17.23	1.0	15.87	17.95	2.0	15.15	
	15:00	7.0	27.09	2.0	6.0	19.23	2.0	13.87	19.95	2.0	13.15	
	15:30	7.5	29.09	2.0	4.0	21.23	2.0	11.87	21.95	2.0	11.15	
	16:00	8.0	31.1	2.0	2.0	23.23	2.0	9.87	24.0	2.0	9.15	

Ground Water Drawdown Measurements

Eddies Pit Stop -Pageland, SC UST Site # 18871			Project No.: 73098106			Dates: 2/2/16			Event #: 1
Date	Time	Elapsed Time	Depth to Water (feet btoc)						
			Extraction Wells			Observation Wells			
			MW-2	RW-1	RW-2	MW-6	MW-8		
02/02/16	8:00	0	7.58	7.73	7.45	5.70	18.51		
	16:00	8.0	27.7	22.1	23.1	5.70	7.59		

Notes:

- A free product thickness of 0.01 was encountered at MW-2 prior to system start.

-MW-8 was pressurized and showed a rising water level durring the 8 hour event.

APPENDIX E

Geologist Logs and Water Well Records

GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: **RW-1**
Client: SCDOT		***Well Construction Data***	
Date Started: 12/8/15	Date Completed: 12/8/15	Screen: 2" (0.010) Slotted PVC	From: 10 - To: 25
Logged By: R. Norris	Coordinates:	Pack: #2 Filter Sand	From: 8 - To: 25
Drilling Co.:	Driller: J. Allred	Seal: Bentonite Pellets	From: 6 - To: 8
Method: 4.25" HSA	Equipment: CME-45	Grout: Portland Cement Type I	From: 0 - To: 6
Boring Depth (ft.): 25.0	TOC Elevation: 553.32	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 8.25	GW Level: ▼ 12.25 / Time/Date: 6/2/2016	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						**ASPHALT**		0
2						**SAND**, orange, medium to coarse grained, very dense, dry.		2
4								4
6						**SILTY SAND**, tan, fine to medium grained, very dense, dry.		6
8								8
10								10
12							▼	12
14								14
16								16
18								18
20								20
22								22
24								24
						Boring Terminated at 25 ft.		

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/25/16

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDOT (last) (first)
Address: PO BOX 191
City: Columbia State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Chesterfield
Name: Eddies Pitt Stop
Street Address: Route 2, Highway 601 N
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:** 18871

4. ABANDONMENT: ☐ Yes ☑ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
asphalt		
silty / CLAY	0	25
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
UST 18871 RW-1

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

7. PERMIT NUMBER: UMW-26021

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

9. WELL DEPTH (completed) 25 ft. Date Started: 12/8/15 Date Completed: 12/8/15

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
4" in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 4"
Slot/Gauge: 0.020 Length: 15'
Set Between: 10' ft. and 25' ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 25 ft.
Effective size # 3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 13 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Todd Allred
Address: (Print) 580 Parlock Rd, Irmo, SC 29063
CERT. NO.: 1446B
Level: A (B) C D (circle one)
Telephone No.: 803-351-1316 Fax No.:

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

Signed: Jonathan Todd Allred Date: 12/21/15
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

GEOLOGIST LOG

Project: EDDIE'S PIT STOP		Project Number: 73098106	Boring/Well: **RW-2**
Client: SCDOT		***Well Construction Data***	
Date Started: 12/8/15	Date Completed: 12/8/15	Screen: 2" (0.010) Slotted PVC	From: 10 - To: 25
Logged By: R. Norris	Coordinates:	Pack: #2 Filter Sand	From: 8 - To: 25
Drilling Co.:	Driller: J. Allred	Seal: Bentonite Pellets	From: 6 - To: 8
Method: 4.25" HSA	Equipment: CME-45	Grout: Portland Cement Type I	From: 0 - To: 6
Boring Depth (ft.): 25.0	TOC Elevation: 553.57	Inner Casing: 2" Threaded PVC Sch 40	
Boring Diameter (in): 8.25	GW Level: ▼ 10.97 Time/Date: 6/2/2016	Outer Casing/Stick Up:	

Depth	Sample	Sample Number	Blows/ 6 inches	FID (ppm)	Lithology	Description	Well Detail	Depth
0						**ASPHALT**		0
2						**SAND**, orange, medium to coarse grained, very dense, dry.		2
4								4
6						**SILTY SAND**, tan, fine to medium grained, very dense, dry.		6
8								8
10							▼	10
12								12
14								14
16								16
18								18
20								20
22								22
24								24
						Boring Terminated at 25 ft.		

LOG OF BORING WELL 73098106.GPJ GAGE_GRP.GDT 7/25/16

Terracon
521 Clemson Road, Columbia, South Carolina 29229
Phone: 803-741-9000, Fax: 803-741-9900

Water Well Record
Bureau of Water
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DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDOT (last) (first)
Address: PO BOX 191
City: Columbia State: SC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Chesterfield
Name: Eddies Pitt Stop
Street Address: Route 2, Highway 601 N
City: Pageland Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:** 18871

4. ABANDONMENT: ☐ Yes ☑ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
asphalt		
silty / CLAY	0	25
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
UST 18871 RW-2

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

7. PERMIT NUMBER: UMW-26021

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

9. WELL DEPTH (completed) Date Started: 12/8/15
25 ft. Date Completed: 12/8/15

10. CASING: ☑ Threaded ☐ Welded
Diam.: 4"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
4" in. to 10 ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 4"
Slot/Gauge: 0.020 Length: 15'
Set Between: 10' ft. and 25' ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

13. PUMPING LEVEL Below Land Surface.
_____ ft. after _____ hrs. Pumping _____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☑ No
Yield: _____

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 25 ft.
Effective size # 3 Uniformity Coefficient _____

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 0 ft. to 13 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe_____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Todd Allred
Address: (Print) 580 Parlock Rd
Irmo, SC 29063
CERT. NO.: 1446B
Level: A (B) C D (circle one)
Telephone No.: 803-351-1316 Fax No.:

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

Signed: Jonathan Todd Allred Date: 12/21/15
Well Driller

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

DHEC 1903 (03/2004)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

APPENDIX G

Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0069	2 2 2 2 2 2

GENERATOR

5. Generator's Name and Mailing Address
SCDOT

Generator's Phone: 741-0000 , SC

Generator's Site Address (if different than mailing address)
SCDOT - Eddie's Pit Stop
Rt. 2, US Hwy 601 North
Pageland, SC

6. Transporter 1 Company Name
Terracon

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-
803-926-0069

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED MATERIAL (1082) - 650	4	DM	2000	E	
2.						
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: Regan W. Norris — PS Signatory Agent for SCDOT — Signature — Month: 12 — Day: 9 — Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Terracon — Signature — Month: 12 — Day: 9 — Year: 15

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

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: Amy McKenzie — Signature: Amy McKenzie — Month: 12 — Day: 9 — Year: 15

INBOUND
10:00 AM Feb/03/2016
ID:188
21000 lb

OUTBOUND
10:29 AM Feb/03/2016
ID:188
21000 lb G
17440 lb PT
3560 lb N

regulatory solutions, inc.

CUSTOMER NAME: Terracon

GENERATOR: Eddie's Pit Stop

TRUCK/CONTAINER #:

MANIFEST#: 27558

WEIGHER (INITIALS): JMC

5188

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	2 2 5 5 8

GENERATOR

5. Generator's Name and Mailing Address SCDOT

803- 741-9000 , SC

Generator's Phone:

Generator's Site Address (if different than mailing address) SCDOT Eagle's Nest Stop
Rt. 2, US Hwy 601 North
Pageland, SC

6. Transporter 1 Company Name Terracon — 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-
803-926-0089 — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NON-DOT REGULATED MATERIAL 10471 - 1247	1	T T	477	G	
2.						
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 David Lessane — Signature — Month 02 Day 03 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name David Lessane — Signature — Month 02 Day 03 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

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 Amy McKenzie — Signature Amy McKenzie — Month 2 Day 3 Year 16

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

APPENDIX K

SCDHEC QAPP Contractors Checklist

UST Site # 18871 ■ Eddie's Pit Stop
Pageland, South Carolina

Terracon

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
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		

Explanation for missing or incomplete information

dhec
Healthy People Healthy Communities

AUG 2 4 2016

MARK HUNTER
SC DEPARTMENT OF TRANSPORTATION
PO BOX 191
COLUMBIA SC 29202-0191

Re: **AFVR Directive**
Eddies Pit Stop, Rte. 2, Hwy 601 North, Pageland, SC
UST Permit #18871; CA #53138
Release reported October 15, 1992
Recovery Well Installation Report received July 27, 2016
Chesterfield County

Dear Mr. Hunter:

On behalf of the Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division has reviewed the referenced report and determined an appropriate next work scope. In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, two 96-hour Aggressive Fluid and Vapor Recovery (AFVR) events may commence as outlined in this letter and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. A copy of DHEC QAPP Version 3.1 for the UST Division is available at http://www.scdhec.gov/environment/docs/DHEC%20UST%20QAPP_Rev-3.1(2).pdf.

Monitoring wells MW-5 and MW-12 should be utilized during both events. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 25 feet in each well. Please strive to reach the target depth within the first 8 hours of the event and maintain the stinger at this depth for the duration of the event.

As soon as the beginning date of the event has been scheduled, please contact Read Miner at minerrs@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.

Cost Agreement #53138 has been approved in the amount shown on the enclosed cost agreement. Terracon Consultants, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are 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. 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, 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.

The UST Division grants preapproval for transportation of virgin petroleum-contaminated groundwater from the referenced site to a permitted treatment facility.

On all correspondence concerning this site, please reference UST Permit #18871. If you have any questions, please contact me at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Technical File (with enclosure)
Terracon Consultants, Inc., 521 Clemson Rd., Columbia, SC 29229-4307 (with enclosure)

Approved Cost Agreement 53138

Facility 18871 EDDIES PIT STOP

MINERRS

PO Number

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
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

Document Receipt Information

☒ Hard Copy ☒ CD ☐ Email

Date Received 12/14/14

Permit Number 18871

Project Manager Read Mines

Name of Contractor Terracon

UST Certification Number

Docket Number 24T

Scanned

AFVR Report

LETTER OF TRANSMITTAL

Terracon

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Read S. Miner

SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 12/12/16	JOB NO. 73098106
RE: Eddie's Pit Stop AFVR Report	
UST Permit # 18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	DESCRIPTION
1	12/12/16	AFVR Report (CD + Hard Copy)

THESE ARE TRANSMITTED as checked below:

☐ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections
☐ Resubmit ___ copies for approval
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints

REMARKS:

Enclosed is the report for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: Tim Hunter / SCDOT (e-mail)

SIGNED: **Courtney N. Brown**

If enclosures are not as noted, kindly notify us at once.

Report of
Aggressive Fluid Vapor Recovery (AFVR)

Eddies Pit Stop
Route 2, US Highway 601 North
Pageland, South Carolina

UST PERMIT # 18871

December 12, 2016
Terracon Project No. 73098106

Prepared for:
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202

Prepared by:
Terracon Consultants, Inc.
Columbia, South Carolina

Offices Nationwide
Employee-Owned
Established in 1965
terracon.com
Terracon
Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

December 12, 2016

Mr. Read S. Miner
South Carolina Department of Health
and Environmental Control
Bureau of Land and Waste Management
UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: ***Report of Aggressive Fluid Vapor Recovery***
Eddies Pit Stop
Route 2, US Highway 601 North, Pageland, South Carolina
UST Permit # 18871; C.A. 53138
Terracon Project No. 73098106

Dear Mr. Miner:

On behalf of the South Carolina Department of Transportation, **Terracon Consultants, Inc.** is pleased to submit this AFVR Report for the Eddies Pit Stop in Pageland, South Carolina. This report summarizes the results of the assessment activities and our conclusions and recommendations.

If you have any questions regarding the contents of this report, or if you need additional information, please contact us at (803) 741-9000.

Sincerely,

Terracon Consultants, Inc.
UST Contractor Certification No. 246

Courtney N. Brown
Field Environmental Engineer

P. Michael Hudgins, P.G.
Senior Hydrogeologist
S.C. Registration No. 1137

P. MICHAEL HUDGINS REGISTERED NO. 1137 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Attachment

cc: Tim Hunter/SCDOT

TABLE OF CONTENTS

REPORT OF AGGRESSIVE FLUID VAPOR RECOVERY
Eddies Pit Stop
Route 2, US Highway 601 North
Pageland, South Carolina
UST Permit # 18871
Terracon Project No. 73098106

SECTION **PAGE NO.**

Cover Letter
TABLE OF CONTENTS ii

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1.2 Site History 1

1.3 Significant Deviations 2

2.0 AGGRESSIVE FLUID VAPOR RECOVERY 2

2.1 AFVR Setup and Methods 2

2.2 AFVR Results 3

3.0 CONCLUSIONS AND RECOMMENDATIONS 5

FIGURES

1 Site Location Map
2 Site Map

APPENDICES

A AFVR Field Data Sheets
G Disposal Manifest

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) has completed two 96-hour Aggressive Fluid Vapor Recovery (AFVR) events at the Eddies Pit Stop site located in Pageland, South Carolina. The purpose of this work was to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC) from ground water from a previously reported petroleum underground storage tank (UST) release. The work was performed in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Cost Agreement #53138 dated August 24, 2016 and the Annual Contractor Quality Assurance Plan (ACQAP) approved March 31, 2016. This report includes a description of the activities performed during this assessment, along with our current findings, conclusions and recommendations.

1.1 Site Description

The site is composed of a vacant gas station, owned by South Carolina Department of Transportation (SCDOT). The site is bound to the east by US Highway 601 and the Carolina Country Convenience Store (UST #02261); to the south by agricultural land; to the west by the remainder of the former Eddie's Pit Stop property; and to the north by residential land. A topographic map showing the site location is presented as Figure 1.

Carolina Country Convenience Store (UST Permit #02261) currently operates an UST system located approximately 150 feet east from the former Eddie's UST basin across Highway 601. According to the SCDHEC database, the site has a reported release dated September 30, 2008 and a confirmed clean up date of November 6, 2008.

Two irrigation or water supply wells (PW-1 and PW-2) are located within a ½ mile radius of the site. PW-1 is an unused well on the subject site. PW-2 is used as an irrigation supply well located offsite on the adjacent residential property (Casper residence). The site and surrounding area is serviced drinking water from a municipal water supply system.

1.2 Site History

The site has been defined as the area of the former USTs, which is now located within the SCDOT right-of-way of Highway 601. The right-of-way and US Highway 601 were expanded in 2001 as part of road improvements in Chesterfield County.

Eddies Pit Stop convenience store and gas station previously operated one 750 gallon and one 2,000 gallon gasoline UST. These USTs were abandoned by removal in August 2002. A release was reported with the UST closure in August 2002. A directive to conduct a Tier I Assessment was issued by the SCDHEC in 2009.

In June 2015, additional sampling indicated that petroleum contaminants remained above risk-based screening levels (RBSLs) and that free product existed in one of the shallow wells. The results of the assessment are summarized below:

- Petroleum oxygenates t-butanol (TBA), and tert-amyl alcohol (TAA) were detected in two monitoring wells above Action Levels (Als) established by the SCDHEC.
- Approximately 0.02 ft. of free product was measured in monitoring well MW-2.
- Petroleum hydrocarbon compounds were detected above RBSLs in ground water samples collected from 7 of the 20 shallow monitoring wells.
- Benzene and/or naphthalene was detected at concentrations above RBSLs in four of the 10 deep wells (MW-3D, MW-15D, MW-16D and MW-18D) located north, northeast and southwest of the former USTs.
- EDB was detected above the RBSL in six wells.
- 1,2 DCA was detected in ground water in seven wells at concentrations above RBSLs.
- Ground water occurs within the upper portion of the shallow aquifer under unconfined conditions at depths ranging from approximately 12 to 18 feet in the lower portion.
- The flow direction in the upper portion of the shallow aquifer is in a radial pattern generally toward the southwest and toward the west in the lower portion of the shallow aquifer.

On July 17, 2015 the SCDHEC issued a directive for the installation of two recovery wells followed by a 96 hour AFVR event. However, due to the location of these wells on a high traffic road, it was decided by the SCDHEC project manager to conduct a single 8-hour event (Event #1), allowing for the potential for product to return to the extraction well. A total of approximately 0.2 gallons (1.24 pounds) of hydrocarbons were removed during this event.

In August 2016, SCDHEC issued a directive for two 96-hour AFVR events for monitoring wells MW-5 and MW-12. This report includes a summary of the AFVR events (Event #2 and Event #3) along with our conclusions and recommendations.

1.3 Significant Deviations

Terracon documented no significant deviations from the AFVR extraction and data collection activities outlined in the AFVR directive for Event #2 and #3. The extractions were conducted continuously for the 96-hour periods for both monitoring wells MW-5 and MW-12.

2.0 AGGRESSIVE FLUID AND VAPOR RECOVERY

2.1 AFVR Setup and Methods

Aggressive Fluid Vapor Recovery (AFVR) was utilized to extract free-phase and dissolved-phase hydrocarbons from the upper portion of the shallow aquifer at the site. AFVR is a proven remediation method that utilizes high vacuum pressures and flow rates to remove multiple phase (vapor, dissolved, and free phase) VOCs from the subsurface. Figure 2 is a site map showing monitoring well locations.

The AFVR event was performed using trailer-mounted vacuum extraction rig equipped with a rotary claw pump and an air-water separator unit. Prior to system start up, the trailer mounted unit was properly grounded to the land surface with a copper grounding rod, and connected to the trailer by a metal ground lead, thus reducing the potential for static electricity to cause an explosion hazard.

One-inch diameter PVC stinger tubes were set approximately six-inches into the water table. The tubes were adjusted during the first eight hours of the event according to the historical low water levels recorded in the wells. Adjustments were made thereafter to minimize water production and maximize product recovery and contaminant mass removal from the vadose zone/water table interface. Stinger depths are listed on the AFVR Field Data Sheets, included in Appendix A.

Vacuum pressures were monitored at select monitoring wells during the event, and were adjusted to optimize the flow to the system. System readings were recorded for off-gas concentrations, flow measurements, and vacuum pressure throughout the event.

The extraction events were conducted on monitoring wells as follows:

Day 1;	every half-hour for the first eight hours, every hour for the next eight hours, and a final reading after 24 hours;
Day 2, 3 and 4:	every two hours for 16 hours and a final reading after 24-hours;

Off-gas concentrations were recorded with a Bacharach TLV Sniffer, and the off -gas velocity was measured using an anemometer at the system exhaust stack. The concentrations were recorded on the AFVR Field Data Sheet, included in Appendix A. A summary of the AFVR events is provided below.

2.2 AFVR Results

96-hour AFVR Event #2
October 3 through 7, 2016
Monitoring Wells MW-5 and MW-12

No free product was detected in monitoring wells MW-5 and MW-12 prior to the start of the AFVR. Stingers were initially set just below the ground water table and lowered to a target depth of 25 feet within the first eight hours of extraction, as outlined in the AFVR directive.

VOC concentrations measured during extraction were recorded at 15,000 parts per million (PPM) at the start of the event, increasing from an average of 1,288 ppm to an average of 3,905 ppm after the first 24 hours, and ranging from 200 ppm to 15,000 ppm for the following 72 hours. VOC concentrations increased and were at their highest at night, each night of AFVR Event #2. These elevated VOC concentrations resulted removal of approximately 270.14 pounds of volatile organic compounds (45.8 gallons) during AFVR Event #2.

Ground water measurements were recorded at the extraction and observation monitoring wells every two hours during the AFVR event to monitor ground water drawdown in the upper portion of the shallow aquifer. Observation wells located closest to the nearest extraction well exhibited groundwater drawdowns ranging from 0.21 feet (MW-18) to 0.97 feet (MW-1). The ground water drawdown measurements are included in Appendix A.

Differential pressures (vacuum) measurements recorded with a digital magnehelic gauge at monitoring wells MW-1, MW-13 and MW-18 indicated that the zone of influence did not extend to the closest observation wells located 25 to 40 feet away from the closest extraction well. The vacuum radius of influence was recorded on the AFVR Field Data Sheet, included in Appendix A.

Approximately 220 gallons of groundwater were extracted during Event #2. This groundwater was transported to and disposed by Regulatory Solutions, LLC. in Gaston, South Carolina. The disposal manifest for the extracted ground water generated are included in Appendix G.

96-hour AFVR Event #3
October 24 through 28, 2016
Monitoring wells MW-5, and MW-12

No free product was detected in monitoring wells MW-5 and MW-12 prior to the start of the AFVR. Stingers were initially set just below the ground water table and lowered to a target depth of 25 feet within the first eight hours of extraction, as outlined in the AFVR directive. VOC concentrations measured during extraction were recorded at 11 parts per million (PPM) at the start of the event, increasing from an average of 3.0 ppm to an average of 6.3 ppm after the first 24 hours, and ranging from 0.3 ppm to 12.2 ppm for the following 72 hours. These VOC concentrations resulted removal of approximately 0.06 pounds of volatile organic compounds (0.01 gallons) during AFVR Event #3.

Ground water measurements were not recorded at the extraction and observation monitoring wells during AFVR Event #3. After consulting with the SCDHEC project manager of the site on October 21, 2016, the decision was made to keep the vacuum gauges on the perimeter wells, but not collect water level measurements. Doing this was intended to increase the sustained subsurface vacuum pressure and increase the readings throughout the third event. Pre- and post-event groundwater drawdown measurements were taken for the observation wells. The observation wells located closest to the nearest extraction well exhibited groundwater drawdowns ranging from 0.58 feet (MW-1) to 1.08 feet (MW-3). The ground water drawdown measurements are included in Appendix A.

Differential pressures (vacuum) measurements recorded with a digital magnehelic gauge at monitoring wells MW-1, MW-13 and MW-18 indicated that the zone of influence did not extend to the closest observation wells located 25 to 40 feet away from the closest extraction well. Thus, leaving the observation wells sealed did not affect the subsurface pressure readings at the site.

The vacuum radius of influence was recorded on the AFVR Field Data Sheet, included in Appendix A.

Approximately 801 gallons of groundwater were extracted during Event #3. This groundwater was transported to and disposed by Regulatory Solutions, LLC in Gaston, South Carolina. The disposal manifests for the extracted ground water generated are included in Appendix G.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the total hydrocarbon recovery of approximately 270.2 pounds during the two 96-hour extraction events, AFVR appears to be an effective remediation mechanism for petroleum impacted ground water at this site. Approximately 46 gallons (271.4 pounds) of volatile compounds have now been extracted from the vadose zone, capillary fringe, and surficial aquifer as a result of these AFVR events conducted at this site.

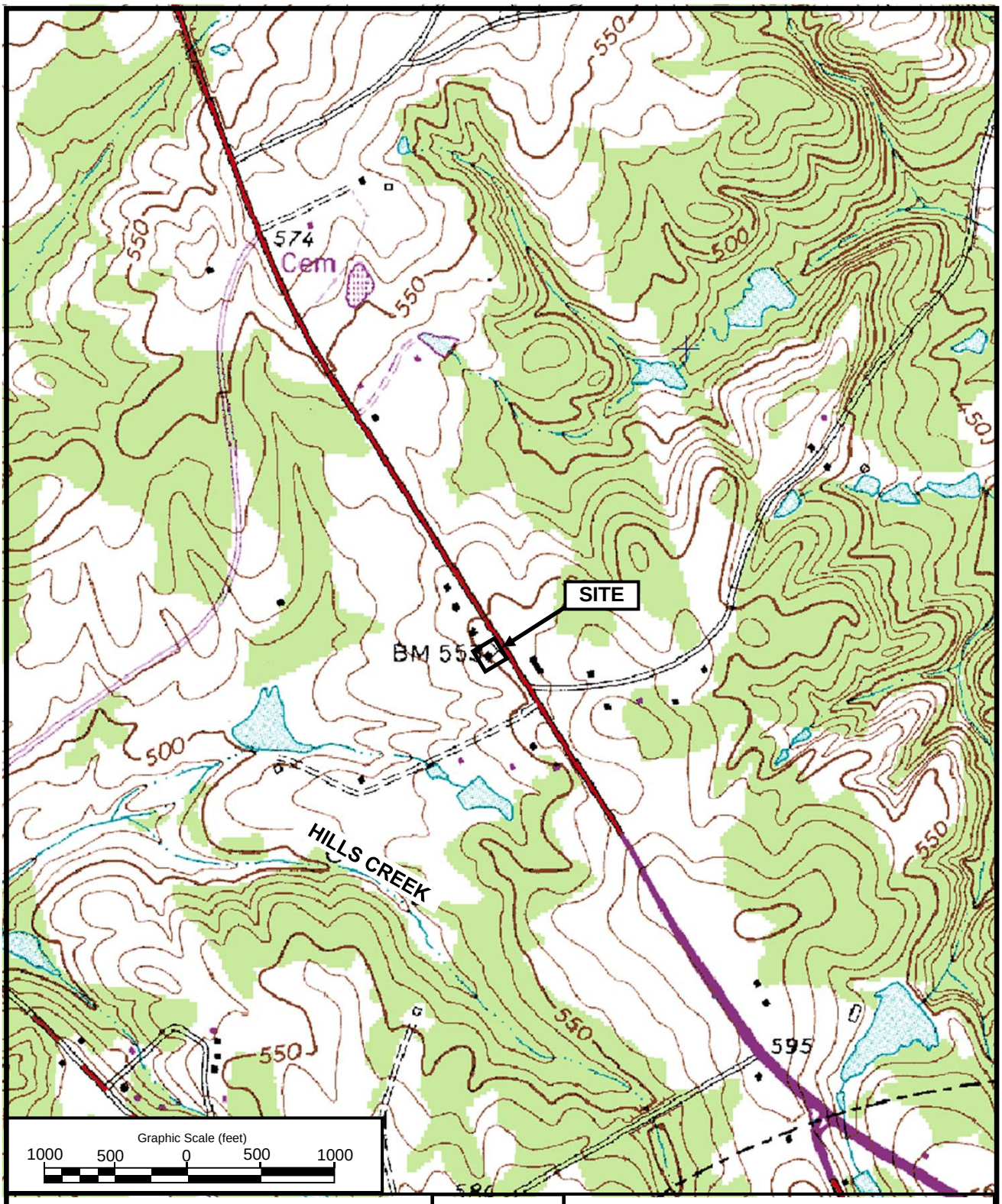
Event #2 resulted in approximately 270.1 pounds more of hydrocarbon recovery than Event #3. Additionally, the total liquid volume extracted Event #2 was 581 gallons less than the liquid volume extracted in Event #3. A possible reason for these results may be due to a higher water table which may have exposed a higher permeability zone for Event #2 that was not exposed for Event #3. This occurrence would account for the lower VOCs and CFM, as well as the higher water production for Event #3.

Terracon recommends a comprehensive groundwater sampling event as the next scope of work at this site. If high dissolved-phase hydrocarbons persist, additional 96-hour AFVR events are suggested to further reduce contaminant concentrations in the source area. Once the high concentrations of dissolved contaminants are reduced, this site may a candidate for monitored natural attenuation.

FIGURES

Figure 1 **Site Location Map**

Figure 2 **Site Map**



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

DATE: 1993
SCALE: 1 INCH = 1000 FEET

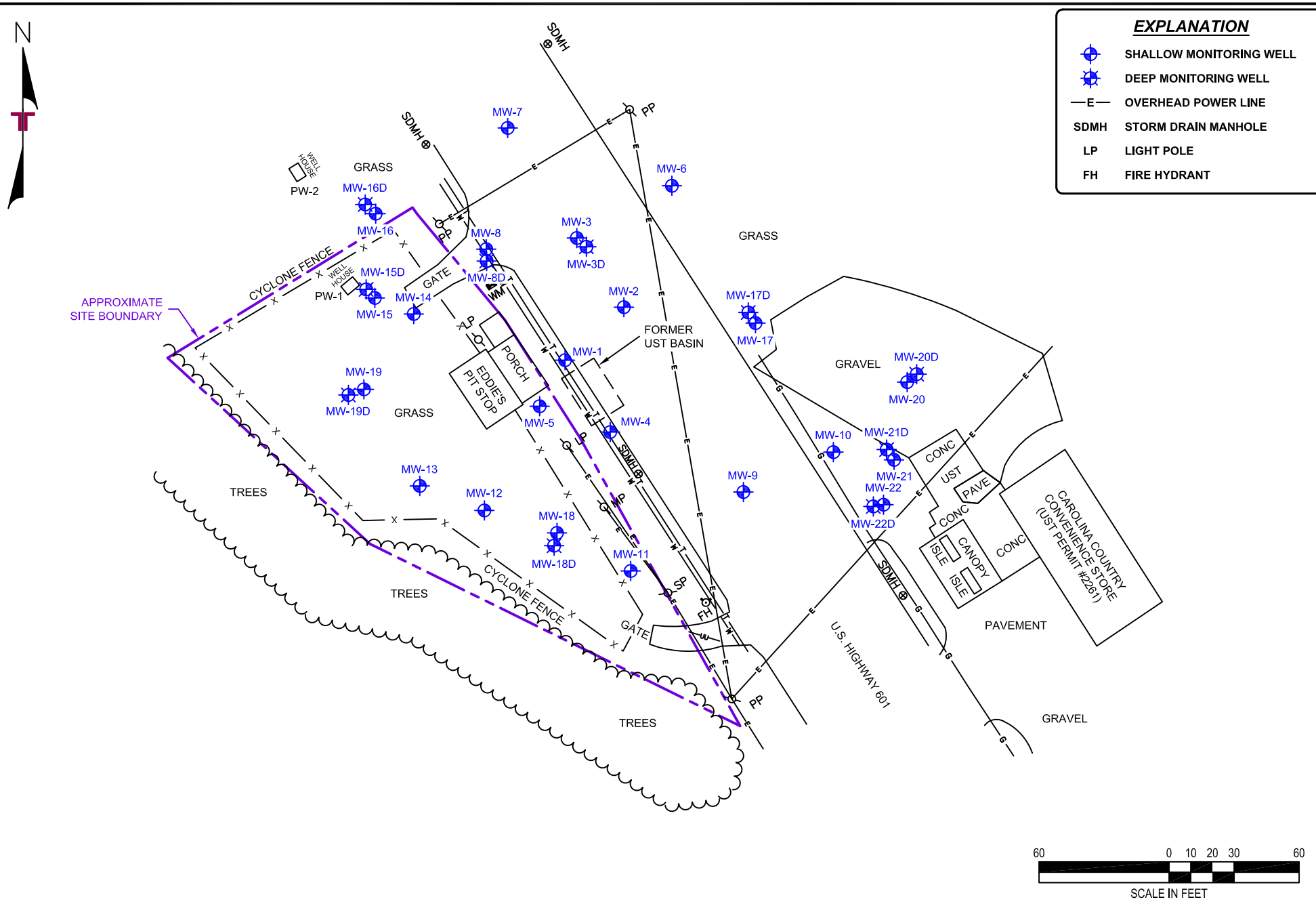
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	JUNE 2015

Terracon
Consulting Engineers and Scientists
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SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Fig No. 2

Appendix A

AFVR Data Sheets

AVFR FIELD DATA SHEET

Site: Eddie's Pit Stop - Pageland, SC | **UST Site # 18871** | **Project No.: 73098106** | **Dates: 10/03/16 - 10/07/16** | **Event #: 2**

	Start Time hh:mm	End Time hh:mm	Time Interval (min)	Elapsed Time (hours)	VOC Concentrations			Off-Gas Velocity (FPM)			Total Flow (CFM)	VOC Emissions		
					Initial (PPM)	Ending (PPM)	Average (PPM)	Initial (FPM)	Ending (FPM)	Average (FPM)		Rate (lbs/hr)	Total (lbs)	Cumulative Total (lbs)
	9:30	10:00	30	0.5	15,000	598	7,799	328	392	360	32.40	2.98	1.49	1.49
	10:00	10:30	30	1.0	598	52	325	392	387	390	35.06	0.13	0.07	1.56
	10:30	11:00	30	1.5	52	30	41	387	127	257	23.13	0.01	0.01	1.56
	11:00	11:30	30	2.0	30	27	29	127	127	127	11.43	0.00	0.00	1.57
	11:30	12:00	30	2.5	27	33	30	127	127	127	11.43	0.00	0.00	1.57
	12:00	12:30	30	3.0	33	36	35	127	127	127	11.43	0.00	0.00	1.57
	12:30	13:00	30	3.5	36	45	41	127	127	127	11.43	0.01	0.00	1.57
	13:00	13:30	30	4.0	45	41	43	127	127	127	11.43	0.01	0.00	1.58
	13:30	14:00	30	4.5	41	369	205	127	127	127	11.43	0.03	0.01	1.59
	14:00	14:30	30	5.0	369	339	354	127	771	449	40.41	0.17	0.08	1.67
10/03/2016	14:30	15:00	30	5.5	339	353	346	771	947	859	77.31	0.32	0.16	1.83
	15:00	15:30	30	6.0	353	383	368	947	957	952	85.68	0.37	0.19	2.02
MW-5	15:30	16:00	30	6.5	383	390	387	957	958	958	86.18	0.39	0.20	2.21
MW-12	16:00	16:30	30	7.0	390	398	394	958	941	950	85.46	0.40	0.20	2.41
	16:30	17:00	30	7.5	398	395	396	941	948	945	85.01	0.40	0.20	2.61
	17:00	17:30	30	8.0	395	393	394	948	991	970	87.26	0.41	0.20	2.81
	18:30	18:30	60	9.0	393	393	393	991	1,000	996	89.60	0.42	0.42	3.23
	18:30	19:30	60	10.0	393	404	398	1,000	1,013	1,007	90.59	0.43	0.43	3.65
	19:30	20:30	60	11.0	404	1,297	851	1,013	1,021	1,017	91.53	0.92	0.92	4.57
	20:30	21:30	60	12.0	1,297	3,249	2,273	1,021	951	986	88.74	2.38	2.38	6.95
	21:30	22:30	60	13.0	3,249	4,385	3,817	951	1,057	1,004	90.36	4.07	4.07	11.02
	22:30	23:30	60	14.0	4,385	4,107	4,246	1,057	983	1,020	91.80	4.60	4.60	15.62
	23:30	0:30	60	15.0	4,107	3,892	4,000	983	971	977	87.93	4.15	4.15	19.77
	0:30	1:30	60	16.0	3,892	3,621	3,757	971	993	982	88.38	3.92	3.92	23.69
	6:00	8:00	390	22.5	5,846	15,000	10,423	290	891	591	53.15	6.54	42.49	66.18
	8:00	10:00	120	24.5	15,000	15,000	15,000	891	862	877	78.89	13.96	27.93	94.10
10/04/2016	10:00	12:00	120	26.5	15,000	392	7,696	862	725	794	71.42	6.49	12.97	107.07
	12:00	14:00	120	28.5	392	386	389	725	401	563	50.67	0.23	0.47	107.54
MW-5	14:00	16:00	120	30.5	386	295	341	401	944	673	60.53	0.24	0.49	108.02
MW-12	16:00	18:00	120	32.5	295	298	297	944	797	871	78.35	0.27	0.55	108.57
	18:00	20:00	120	34.5	298	277	288	797	817	807	72.63	0.25	0.49	109.07
	20:00	22:00	120	36.5	277	382	330	817	945	881	79.29	0.31	0.62	109.68
	6:00	8:00	600	46.5	15,000	401	7,701	396	328	362	32.58	2.96	29.60	139.29
	8:00	10:00	120	48.5	401	611	506	328	341	335	30.11	0.18	0.36	139.65
10/05/2016	10:00	12:00	120	50.5	611	390	501	341	304	323	29.03	0.17	0.34	139.99
	12:00	14:00	120	52.5	390	297	344	304	299	302	27.14	0.11	0.22	140.21
MW-5	14:00	16:00	120	54.5	297	264	281	299	305	302	27.18	0.09	0.18	140.39
MW-12	16:00	18:00	120	56.5	264	872	568	305	317	311	27.99	0.19	0.38	140.76
	18:00	20:00	120	58.5	872	2,568	1,720	317	346	332	29.84	0.61	1.21	141.97
	20:00	22:00	120	60.5	2,568	15,000	8,784	346	369	358	32.18	3.33	6.67	148.64
	6:00	8:00	600	70.5	15,000	15,000	15,000	181	118	150	13.46	2.38	23.82	172.46
	8:00	10:00	120	72.5	15,000	387	7,694	118	103	111	9.95	0.90	1.81	174.27
10/06/2016	10:00	12:00	120	74.5	387	299	343	103	93	98	8.82	0.04	0.07	174.34
	12:00	14:00	120	76.5	299	213	256	93	258	176	15.80	0.05	0.10	174.43
MW-5	14:00	16:00	120	78.5	213	231	222	258	258	258	23.22	0.06	0.12	174.55
MW-12	16:00	18:00	120	80.5	231	400	316	258	271	265	23.81	0.09	0.18	174.73
	18:00	20:00	120	82.5	400	756	578	271	316	294	26.42	0.18	0.36	175.09
	20:00	22:00	120	84.5	756	1,802	1,279	316	311	314	28.22	0.43	0.85	175.94
10/07/16	6:00	8:00	600	94.5	15,000	15,000	15,000	841	291	566	50.94	9.02	90.16	266.11
	8:00	9:30	90	96.0	15,000	981	7,991	291	342	317	28.49	2.69	4.03	270.14

Total Extraction Time.....	**96.0**	**hours**
Total Liquid Volume.....	**220**	**gallons**
Total Liquid-phase Hydrocarbon.....	**0.0**	**gallons**
Total Vapor-phase Hydrocarbon (tot lbs ÷ 5.9).....	**45.8**	**gallons**
Total Hydrocarbon Recovery:.....	**45.8**	**gallons**

TOTAL lbs of VOC emissions = 270.14

Notes:
1. VOC concentrations measured with an Intrinsically Safe TLV (Threshold-Limit Value) sniffer.
2. Off-gas velocity measured with a Dwyer Instruments Series 471 Thermo-Anemometer.
3. Off-gas stack diameter = 4 in.
4. CFM (cubic feet per minute) = FPM X crossectional area of stack (0.089 sq.feet).
5. Revovery Rate - lbs/hr = CFM * PPM * 0.0000118
6. Vapor recovery rate (V_r) calculated with the following equation:

$$V_r \left[\frac{lb}{hr}\right] = \frac{V_c\ ppm_v}{10^6\ ppm_v} \times \frac{74.5\ lb\text{-}mole}{379.5\ ft^3} \times Q\left[\frac{ft^3}{hr}\right]$$

V_r = *vapor recovery rate*
V_c = *vapor concentration*
74.5 lb/mole = average molecular weight of gasoline vapor
379.3 SCF/lb-mole = Ideal Gas law conversion factor
Q = *off-gas velocity* * πr^2 * *60 min/hr*

Event Information

Technician:	Bryan Hyatt/Spencer Blair
Vacuum Pump:	Squire-Cogswell /C15
Vacuum Type:	Rotary Claw Pump
Event State:	SC
Event County:	Chesterfield
Event City:	Pageland
Disposal Facility:	Regulatory Solutions
Manifest Number:	23970
Temp:	90 ºF

VACUUM RADIUS OF INFLUENCE

Site: Eddie's Pit Stop - Pageland, SC	UST Site # 18871	Project No.: 73098106	Dates: 10/03/16 - 10/07/16	Event #: 2

Date	Time	Elapsed Time	System Vacuum	MW-5	MW-12	--	--	MW-1	MW-13	MW-18	--	--
				Stinger Head Vacuum				Distance to Nearest Fluid/Vapor Recovery Well				
								25 ft	30 ft	37.5 ft	--	--
	9:30	Start	--	Vacuum (Inches of Mercury Hg)								
	10:00	0.5	21.0	20.0	20.0	--	--	0.0	0.0	0.0	--	--
	10:30	1.0	23.0	21.5	21.5	--	--	0.0	0.0	0.0	--	--
	11:00	1.5	21.0	21.5	20.5	--	--	0.0	0.0	0.0	--	--
	11:30	2.0	20.0	18.0	18.5	--	--	0.0	0.0	0.0	--	--
	12:00	2.5	21.0	19.0	20.5	--	--	0.0	0.0	0.0	--	--
	12:30	3.0	21.0	19.0	20.5	--	--	0.0	0.0	0.0	--	--
	13:00	3.5	23.0	21.0	21.0	--	--	0.0	0.0	0.0	--	--
	13:30	4.0	23.0	21.0	21.0	--	--	0.0	0.0	0.0	--	--
	14:00	4.5	23.0	21.0	22.0	--	--	0.0	0.0	0.0	--	--
	14:30	5.0	22.0	19.0	21.0	--	--	0.0	0.0	0.0	--	--
	15:00	5.5	22.0	19.0	20.5	--	--	0.0	0.0	0.0	--	--
10/03/16	15:30	6.0	22.0	19.0	20.5	--	--	0.0	0.0	0.0	--	--
	16:00	6.5	16.0	18.0	20.0	--	--	0.0	0.0	0.0	--	--
	16:30	7.0	21.5	16.5	19.0	--	--	0.0	0.0	0.0	--	--
	17:00	7.5	21.0	17.0	19.0	--	--	0.0	0.0	0.0	--	--
	17:30	8.0	20.0	16.0	18.5	--	--	0.0	0.0	0.0	--	--
	18:30	9.0	20.0	15.0	18.0	--	--	0.0	0.0	0.0	--	--
	19:30	10.0	18.5	14.0	16.0	--	--	0.0	0.0	0.0	--	--
	20:30	11.0	18.0	14.0	15.5	--	--	0.0	0.0	0.0	--	--
	21:30	12.0	18.0	14.0	15.5	--	--	0.0	0.0	0.0	--	--
	22:30	13.0	17.5	13.5	15.0	--	--	0.0	0.0	0.0	--	--
	23:30	14.0	17.0	14.0	15.0	--	--	0.0	0.0	0.0	--	--
	0:30	15.0	17.0	14.0	15.0	--	--	0.0	0.0	0.0	--	--
	6:00	20.5	17.0	13.0	14.5	--	--	0.0	0.0	0.0	--	--
	8:00	22.5	17.5	13.5	15.0	--	--	0.0	0.0	0.0	--	--
	10:00	24.5	18.5	16.0	17.5	--	--	0.0	0.0	0.0	--	--
	12:00	26.5	20.0	18.5	19.0	--	--	0.0	0.0	0.0	--	--
10/04/16	14:00	28.5	22.5	22,5	21.5	--	--	0.0	0.0	0.0	--	--
	16:00	30.5	23.0	19.0	20.5	--	--	0.0	0.0	0.0	--	--
	18:00	32.5	19.5	16.0	17.5	--	--	0.0	0.0	0.0	--	--
	20:00	34.5	18.0	14.0	16.0	--	--	0.0	0.0	0.0	--	--
	22:00	36.5	17.5	14.0	15.0	--	--	0.0	0.0	0.0	--	--
	6:00	44.5	17.0	13.5	14.5	--	--	0.0	0.0	0.0	--	--
	8:00	46.5	17.5	14.5	15.5	--	--	0.0	0.0	0.0	--	--
	10:00	48.5	18.0	15.5	16.0	--	--	0.0	0.0	0.0	--	--
	12:00	50.5	19.0	17.0	17.5	--	--	0.0	0.0	0.0	--	--
10/05/16	14:00	52.5	19.5	17.5	18.0	--	--	0.0	0.0	0.0	--	--
	16:00	54.5	19.0	16.5	17.0	--	--	0.0	0.0	0.0	--	--
	18:00	56.5	18.5	15.0	16.0	--	--	0.0	0.0	0.0	--	--
	20:00	58.5	18.0	14.0	16.0	--	--	0.0	0.0	0.0	--	--
	22:00	60.5	17.5	14.0	15.0	--	--	0.0	0.0	0.0	--	--
	6:00	68.5	17.5	14.0	15.0	--	--	0.0	0.0	0.0	--	--
	8:00	70.5	17.5	14.5	15.5	--	--	0.0	0.0	0.0	--	--
	10:00	72.5	19.5	17.5	17.0	--	--	0.0	0.0	0.0	--	--
	12:00	74.5	20.5	19.5	19.5	--	--	0.0	0.0	0.0	--	--
10/06/16	14:00	76.5	21.0	19.0	20.0	--	--	0.0	0.0	0.0	--	--
	16:00	78.5	21.0	19.0	19.5	--	--	0.0	0.0	0.0	--	--
	18:00	80.5	20.0	16.5	17.5	--	--	0.0	0.0	0.0	--	--
	20:00	82.5	19.0	15.5	16.5	--	--	0.0	0.0	0.0	--	--
	22:00	84.5	19.0	15.0	17.0	--	--	0.0	0.0	0.0	--	--
	6:00	92.5	18.0	15.0	16.0	--	--	0.0	0.0	0.0	--	--
10/07/16	8:00	94.5	18.0	15.5	15.5	--	--	0.0	0.0	0.0	--	--
	9:30	96.0	19.0	16.5	16.0	--	--	0.0	0.0	0.0	--	--

Notes:

1) Hg- Inches Of Mercury

2) Vacuum Recorded as a Negative Pressure in Hg

STINGER DEPTH ADJUSTMENTS

Site: Eddie's Pit Stop UST Site # 18871	Project No.: 73098106	Dates: 10/03/16 - 10/07/16	Event #: 2

	MW-5			MW-12		
	Depth to Water	Depth to Product	Product Thickness	Depth to Water	Depth to Product	Product Thickness
Pre Event:	15.61	--	--	15.11	--	--
Post Event:	14.09	--	--	14.35	--	--
	Historical Low DTW		24.92	Historical Low DTW		26.05
	Stinger Depth (feet btoc)					

Date	Time	Elapsed Time	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW
	9:30	0	16.1	0.0	8.81	15.6	0.0	10.44
	10:00	0.5	16.6	-0.5	8.31	16.1	-0.5	9.94
	10:30	1.0	17.1	-0.5	7.81	16.6	-0.5	9.44
	11:00	1.5	17.6	-0.5	7.31	17.1	-0.5	8.94
	11:30	2.0	18.1	-0.5	6.81	17.6	-0.5	8.44
	12:00	2.5	18.6	-0.5	6.31	18.1	-0.5	7.94
	12:30	3.0	18.1	0.5	6.81	18.6	-0.5	7.44
	13:00	3.5	19.6	-1.5	5.31	19.1	-0.5	6.94
	13:30	4.0	20.1	-0.5	4.81	19.6	-0.5	6.44
	14:00	4.5	20.6	-0.5	4.31	20.1	-0.5	5.94
	14:30	5.0	21.1	-0.5	3.81	20.6	-0.5	5.44
	15:00	5.5	21.6	-0.5	3.31	21.1	-0.5	4.94
10/03/16	15:30	6.0	22.1	-0.5	2.81	21.6	-0.5	4.44
	16:00	6.5	22.6	-0.5	2.31	22.1	-0.5	3.94
	16:30	7.0	23.1	-0.5	1.81	22.6	-0.5	3.44
	17:00	7.5	23.6	-0.5	1.31	23.1	-0.5	2.94
	17:30	8.0	24.1	-0.5	0.81	23.6	-0.5	2.44
	18:30	9.0	24.1	0.0	0.81	23.6	0.0	2.44
	19:30	10.0	24.1	0.0	0.81	23.6	0.0	2.44
	20:30	11.0	24.1	0.0	0.81	23.6	0.0	2.44
	21:30	12.0	24.1	0.0	0.81	23.6	0.0	2.44
	22:00	13.0	24.1	0.0	0.81	23.6	0.0	2.44
	23:30	14.0	24.1	0.0	0.81	23.6	0.0	2.44
	0:30	15.0	24.1	0.0	0.81	23.6	0.0	2.44
	1:30	16.0	24.1	0.0	0.81	23.6	0.0	2.44
	6:00	20.5	24.1	0.0	0.81	23.6	0.0	2.44
	8:00	22.5	24.1	0.0	0.81	23.6	0.0	2.44
	10:00	24.5	24.1	0.0	0.81	23.6	0.0	2.44
	12:00	26.5	24.1	0.0	0.81	23.6	0.0	2.44
10/04/16	14:00	28.5	24.1	0.0	0.81	23.6	0.0	2.44
	16:00	30.5	24.1	0.0	0.81	23.6	0.0	2.44
	18:00	32.5	24.1	0.0	0.81	23.6	0.0	2.44
	20:00	34.5	24.1	0.0	0.81	23.6	0.0	2.44
	22:00	36.5	24.1	0.0	0.81	23.6	0.0	2.44
	6:00	44.5	22.1	2.0	2.81	22.6	1.0	3.44
	8:00	46.5	22.1	0.0	2.81	22.6	0.0	3.44
	10:00	48.5	22.1	0.0	2.81	22.6	0.0	3.44
	12:00	50.5	22.1	0.0	2.81	22.6	0.0	3.44
10/05/16	14:00	52.5	22.1	0.0	2.81	22.6	0.0	3.44
	16:00	54.5	22.1	0.0	2.81	22.6	0.0	3.44
	18:00	56.5	22.1	0.0	2.81	22.6	0.0	3.44
	20:00	58.5	22.1	0.0	2.81	22.6	0.0	3.44
	22:00	60.5	22.1	0.0	2.81	22.6	0.0	3.44

			MW-5			MW-12		
			Depth to Water	Depth to Product	Product Thickness	Depth to Water	Depth to Product	Product Thickness
		Pre Event:	15.61	--	--	15.11	--	--
		Post Event:	14.09	--	--	14.35	--	--
			Historical Low DTW		24.92	Historical Low DTW		26.05
			Stinger Depth (feet btoc)					
Date	Time	Elapsed Time	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW
10/06/16	6:00	68.5	22.1	0.0	2.81	22.6	0.0	3.44
	8:00	70.5	22.1	0.0	2.81	22.6	0.0	3.44
	10:00	72.5	22.1	0.0	2.81	22.6	0.0	3.44
	12:00	74.5	22.1	0.0	2.81	22.6	0.0	3.44
	14:00	76.5	22.1	0.0	2.81	22.6	0.0	3.44
	16:00	78.5	22.1	0.0	2.81	22.6	0.0	3.44
	18:00	80.5	22.1	0.0	2.81	22.6	0.0	3.44
	20:00	82.5	22.1	0.0	2.81	22.6	0.0	3.44
	22:00	84.5	22.1	0.0	2.81	22.6	0.0	3.44
10/07/16	6:00	92.5	22.1	0.0	2.81	22.6	0.0	3.44
	8:00	94.5	22.1	0.0	2.81	22.6	0.0	3.44
	9:30	96.0	22.1	0.0	2.82	22.6	0.0	3.44

Ground Water Drawdown Measurements

Site: Eddie's Pit Stop - Pageland, SC	UST Site # 18871	Project No.: 730698106	Dates: 10/03/16 - 10/07/16	Event #: 2

Date	Time	Elapsed Time	Depth of Stinger BTOC (feet)	Depth to Water (feet btoc)						
				Extraction Wells		Observation Wells				
				MW-5	MW-12	MW-1	MW-13	MW-18	MW-19	MW-4
10/03/16	**Initial**	0	15.0-16.5	15.61	15.11	21.35	15.81	15.54	17.31	22.63
	11:30	2.0	17.0-18.5	--	--	21.37	15.81	15.58	--	--
	13:30	4.0	19.0-20.5	--	--	21.41	15.92	15.58	--	--
	15:30	6.0	21.0-22.5	--	--	21.49	15.96	15.39	--	--
	17:30	8.0	23.0-24.5	--	--	21.52	15.96	15.37	17.34	22.64
	19:30	10.0	23.0-24.6	--	--	21.59	15.97	15.36	--	--
	21:30	12.0	23.0-24.7	--	--	21.64	15.99	15.40	--	--
	23:30	14.0	23.0-24.8	--	--	21.66	16.02	15.43	--	--
	1:30	16.0	23.0-24.9	--	--	21.67	16.03	15.43	--	--
10/04/16	6:00	20.5	23.5-24.5	--	--	21.73	16.10	15.70	17.49	22.81
	8:00	22.5	23.5-24.6	--	--	21.71	16.12	15.70	--	--
	10:00	24.5	23.5-24.7	--	--	21.80	16.13	15.71	--	--
	12:00	26.5	22.0-23.0	--	--	21.99	16.19	15.75	--	--
	14:00	28.5	22.0-23.0	--	--	21.95	16.19	15.73	17.49	22.82
	16:00	30.5	22.0-23.0	--	--	21.97	16.21	15.75	--	--
	18:00	32.5	22.0-23.0	--	--	21.99	16.16	15.52	--	--
	20:00	34.5	22.0-23.0	--	--	21.99	16.16	15.51	--	--
	22:00	36.5	22.0-23.0	--	--	21.99	16.18	15.52	--	--
10/05/16	6:00	44.5	22.0-23.0	--	--	22.01	16.20	15.76	17.61	22.91
	8:00	46.5	22.0-23.0	--	--	22.06	16.21	15.81	--	--
	10:00	48.5	22.0-23.0	--	--	22.10	16.26	15.81	--	--
	12:00	50.5	22.0-23.0	--	--	22.09	16.26	15.81	--	--
	14:00	52.5	22.0-23.0	--	--	22.14	16.27	15.81	17.62	22.91
	16:00	54.5	22.0-23.0	--	--	22.14	16.29	15.61	--	--
	18:00	56.5	22.0-23.0	--	--	22.15	16.29	15.61	--	--
	20:00	58.5	22.0-23.0	--	--	22.17	16.29	15.61	--	--
	22:00	60.5	22.0-23.0	--	--	22.18	16.30	15.61	--	--
10/06/16	6:00	68.5	22.0-23.0	--	--	22.21	16.30	15.62	--	--
	8:00	70.5	22.0-23.0	--	--	22.26	16.32	15.61	--	--
	10:00	72.5	22.0-23.0	--	--	22.25	16.35	15.62	--	--
	12:00	74.5	22.0-23.0	--	--	22.26	16.37	15.69	--	--
	14:00	76.5	22.0-23.0	--	--	22.29	16.39	15.69	--	--
	16:00	78.5	22.0-23.0	--	--	22.28	16.38	15.69	--	--
	18:00	80.5	22.0-23.0	--	--	22.29	16.39	15.69	--	--
	20:00	82.5	22.0-23.0	--	--	22.29	16.39	15.70	--	--
	22:00	84.5	22.0-23.0	--	--	22.29	16.40	15.70	--	--
10/07/16	9:30	96.0	22.0-23.0	--	--	22.31	16.39	15.72	17.70	23.04
	Post	--	--	14.09	14.35	22.32	16.39	15.75	--	--
	Total Groundwater Drawdown			**-1.52**	**-0.76**	**0.97**	**0.58**	**0.21**	**0.39**	**0.41**

Notes:

- No free product was encountered

AVFR FIELD DATA SHEET

Site: Eddie's Pit Stop - Pageland, SC			UST Site # 18871		Project No.: 73098106			Dates: 10/24/16 - 10/28/16				Event #: 3		
	Start Time hh:mm	End Time hh:mm	Time Interval (min)	Elapsed Time (hours)	VOC Concentrations			Off-Gas Velocity (FPM)			Total Flow (CFM)	VOC Emissions		
					Initial (PPM)	Ending (PPM)	Average (PPM)	Initial (FPM)	Ending (FPM)	Average (FPM)		Rate (lbs/hr)	Total (lbs)	Cumulative Total (lbs)
	9:00	9:30	30	0.5	11.2	6.8	9.0	128	109	119	10.67	0.00	0.00	0.00
	9:30	10:00	30	1.0	6.8	2.6	4.7	109	96	103	9.23	0.00	0.00	0.00
	10:00	10:30	30	1.5	2.6	6.6	4.6	96	48	72	6.48	0.00	0.00	0.00
	10:30	11:00	30	2.0	6.6	2.9	4.8	48	52	50	4.50	0.00	0.00	0.00
	11:00	11:30	30	2.5	2.9	9.7	6.3	52	66	59	5.31	0.00	0.00	0.00
	11:30	12:00	30	3.0	9.7	10.7	10.2	66	71	69	6.17	0.00	0.00	0.00
	12:00	12:30	30	3.5	10.7	2.5	6.6	71	131	101	9.09	0.00	0.00	0.00
	12:30	13:00	30	4.0	2.5	3.4	3.0	131	108	120	10.76	0.00	0.00	0.00
	13:00	13:30	30	4.5	3.4	2.5	3.0	108	98	103	9.27	0.00	0.00	0.00
	13:30	14:00	30	5.0	2.5	1.7	2.1	98	101	100	8.96	0.00	0.00	0.00
10/24/2016	14:00	14:30	30	5.5	1.7	2.3	2.0	101	81	91	8.19	0.00	0.00	0.00
	14:30	15:00	30	6.0	2.3	1.9	2.1	81	108	95	8.51	0.00	0.00	0.00
MW-5	15:00	15:30	30	6.5	1.9	2.5	2.2	108	119	114	10.22	0.00	0.00	0.00
MW-12	15:30	16:00	30	7.0	2.5	2.6	2.6	119	111	115	10.35	0.00	0.00	0.00
	16:00	16:30	30	7.5	2.6	1.3	2.0	111	49	80	7.20	0.00	0.00	0.00
	16:30	17:00	30	8.0	1.3	0.9	1.1	49	89	69	6.21	0.00	0.00	0.00
	17:00	18:00	60	9.0	0.9	1.1	1.0	89	42	66	5.90	0.00	0.00	0.00
	18:00	19:00	60	10.0	1.1	1.3	1.2	42	54	48	4.32	0.00	0.00	0.00
	19:00	20:00	60	11.0	1.3	0.9	1.1	54	101	78	6.98	0.00	0.00	0.00
	20:00	21:00	60	12.0	0.9	0.3	0.6	101	74	88	7.88	0.00	0.00	0.00
	21:00	22:00	60	13.0	0.3	0.3	0.3	74	81	78	6.98	0.00	0.00	0.00
	22:00	23:00	60	14.0	0.3	0.7	0.5	81	39	60	5.40	0.00	0.00	0.00
	23:00	0:00	60	15.0	0.7	1.1	0.9	39	55	47	4.23	0.00	0.00	0.00
	0:00	1:00	60	16.0	1.1	0.9	1.0	55	21	38	3.42	0.00	0.00	0.00
	6:00	8:00	420	23.0	0.9	18.7	9.8	132	141	137	12.29	0.00	0.01	0.01
	8:00	10:00	120	25.0	18.7	2.6	10.7	141	121	131	11.79	0.00	0.00	0.02
10/25/2016	10:00	12:00	120	27.0	2.6	12.5	7.6	121	145	133	11.97	0.00	0.00	0.02
	12:00	14:00	120	29.0	12.5	4.1	8.3	145	143	144	12.96	0.00	0.00	0.02
MW-5	14:00	16:00	120	31.0	4.1	6.5	5.3	143	133	138	12.42	0.00	0.00	0.02
MW-12	16:00	18:00	120	33.0	6.5	4.2	5.4	133	96	115	10.31	0.00	0.00	0.02
	18:00	20:00	120	35.0	4.2	1.3	2.8	96	113	105	9.41	0.00	0.00	0.02
	20:00	22:00	120	37.0	1.3	0.7	1.0	113	101	107	9.63	0.00	0.00	0.02
	6:00	8:00	600	47.0	4.2	10.2	7.2	127	139	133	11.97	0.00	0.01	0.03
	8:00	10:00	120	49.0	10.2	14.1	12.2	139	153	146	13.14	0.00	0.00	0.04
10/26/2016	10:00	12:00	120	51.0	14.1	8.9	11.5	153	160	157	14.09	0.00	0.00	0.04
	12:00	14:00	120	53.0	8.9	4.6	6.8	160	127	144	12.92	0.00	0.00	0.04
MW-5	14:00	16:00	120	55.0	4.6	5.7	5.2	127	106	117	10.49	0.00	0.00	0.05
MW-12	16:00	18:00	120	57.0	5.7	5.2	5.5	106	94	100	9.00	0.00	0.00	0.05
	18:00	20:00	120	59.0	5.2	0.8	3.0	94	102	98	8.82	0.00	0.00	0.05
	20:00	22:00	120	61.0	0.8	0.3	0.6	102	123	113	10.13	0.00	0.00	0.05
	6:00	8:00	600	71.0	3.3	4.9	4.1	140	125	133	11.93	0.00	0.01	0.05
	8:00	10:00	120	73.0	4.9	8.2	6.6	125	149	137	12.33	0.00	0.00	0.06
10/27/2016	10:00	12:00	120	75.0	8.2	4.5	6.4	149	138	144	12.92	0.00	0.00	0.06
	12:00	14:00	120	77.0	4.5	5.1	4.8	138	114	126	11.34	0.00	0.00	0.06
MW-5	14:00	16:00	120	79.0	5.1	4.8	5.0	114	106	110	9.90	0.00	0.00	0.06
MW-12	16:00	18:00	120	81.0	4.8	3.2	4.0	106	151	129	11.57	0.00	0.00	0.06
	18:00	20:00	120	83.0	3.2	7.6	5.4	151	120	136	12.20	0.00	0.00	0.06
	20:00	22:00	120	85.0	7.6	5.3	6.5	120	101	111	9.95	0.00	0.00	0.06
10/28/16	9:00	9:00	0	96.0	1.5	1.5	1.5	629	629	629	56.61	0.00	0.00	0.06

Total Extraction Time..... **96.0** **hours**
Total Liquid Volume..... **801** **gallons**
Total Liquid-phase Hydrocarbon..... **0.0** **gallons**
Total Vapor-phase Hydrocarbon (tot lbs ÷ 5.9)..... **0.0** **gallons**
Total Hydrocarbon Recovery:..... **0.0** **gallons**

TOTAL lbs of VOC emissions = 0.06

Event Information	
Technician:	Bryan Hyatt/Spencer Blair
Vacuum Pump:	Squire-Cogswell /C15
Vacuum Type:	Rotary Claw Pump
Event State:	SC
Event County:	Chesterfield
Event City:	Pageland
Disposal Facility:	Regulatory Solutions
Manifest Number:	24118
Temp:	90 ºF

Notes:
1. VOC concentrations measured with an Intrinsically Safe TLV (Threshold-Limit Value) sniffer.
2. Off-gas velocity measured with a Dwyer Instruments Series 471 Thermo-Anemometer.
3. Off-gas stack diameter = 4 in.
4. CFM (cubic feet per minute) = FPM X crossectional area of stack (0.089 sq.feet).
5. Revovery Rate - lbs/hr = CFM * PPM * 0.0000118
6. Vapor recovery rate (V_r) calculated with the following equation:

$$V_r \left[\frac{lb}{hr}\right] = \frac{V_c\ ppm_v}{10^6\ ppm_v} \times \frac{74.5\ lb\text{-}mole}{379.5\ ft^3} \times Q\left[\frac{ft^3}{hr}\right]$$

V_r = *vapor recovery rate*
V_c = *vapor concentration*
74.5 lb/mole = average molecular weight of gasoline vapor
379.3 SCF/lb-mole = Ideal Gas law conversion factor
Q = *off-gas velocity* * πr^2 * *60 min/hr*

VACUUM RADIUS OF INFLUENCE

Site: Eddie's Pit Stop - Pageland, SC	UST Site # 18871	Project No.: 73098106	Dates: 10/24/16 - 10/28/16	Event #: 3

Date	Time	Elapsed Time	System Vacuum	MW-5	MW-12	--	--	MW-1	MW-13	MW-18	--	--
				Stinger Head Vacuum				Distance to Nearest Fluid/Vapor Recovery Well				
								25 ft	30 ft	37.5 ft	--	--
	9:00	Start	--	Vacuum (Inches of Mercury Hg)								
	9:30	0.5	20.5	15.0	19.5	--	--	0.00	0.00	0.00	--	--
	10:00	1.0	19.0	15.5	19.0	--	--	0.00	0.00	0.00	--	--
	10:30	1.5	19.5	16.0	18.5	--	--	0.00	0.00	0.00	--	--
	11:00	2.0	20.0	18.0	19.0	--	--	0.00	0.00	0.00	--	--
	11:30	2.5	22.5	20.0	20.0	--	--	0.00	0.00	0.00	--	--
	12:00	3.0	22.0	20.0	20.0	--	--	0.00	0.00	0.00	--	--
	12:30	3.5	21.0	19.5	20.0	--	--	0.00	0.00	0.00	--	--
	13:00	4.0	20.5	18.5	19.0	--	--	0.00	0.00	0.00	--	--
	13:30	4.5	21.0	18.0	17.0	--	--	0.00	0.00	0.00	--	--
	14:00	5.0	21.5	18.5	17.5	--	--	0.00	0.00	0.00	+	--
	14:30	5.5	21.0	19.0	18.0	--	--	0.01	0.01	0.01	+	--
	15:00	6.0	20.0	19.0	15.0	--	--	0.01	0.01	0.01	--	--
	15:30	6.5	20.0	17.0	15.5	--	--	0.00	0.00	0.00	--	--
	16:00	7.0	17.0	12.0	12.0	--	--	0.00	0.00	0.00	--	--
	16:30	7.5	16.5	11.0	12.5	--	--	0.00	0.01	0.00	--	--
	17:00	8.0	15.0	9.0	12.0	--	--	0.00	0.00	0.00	--	--
	18:00	9.0	20.0	8.5	11.0	--	--	0.00	0.01	0.00	--	--
	19:00	10.0	12.5	7.0	11.5	--	--	0.00	0.00	0.00	--	--
	20:00	11.0	12.0	7.0	10.0	--	--	0.00	0.00	0.00	--	--
	21:00	12.0	11.5	6.5	10.5	--	--	0.00	0.00	0.00	--	--
	22:00	13.0	11.5	6.0	10.5	--	--	0.00	0.01	0.00	--	--
	23:00	14.0	10.5	5.5	9.0	--	--	0.00	0.00	0.00	--	--
	0:00	15.0	9.5	4.5	5.5	--	--	0.00	0.00	0.00	--	--
	1:00	16.0	9.0	3.5	4.5	--	--	0.00	0.00	0.00	--	--
	6:00	21.0	14.5	10.0	16.5	--	--	0.00	0.00	0.00	--	--
	8:00	23.0	21.0	17.5	24.0	--	--	0.00	0.00	0.00	--	--
	10:00	25.0	22.0	17.5	24.5	--	--	0.00	0.00	0.00	--	--
	12:00	27.0	22.0	19.0	20.0	--	--	0.00	0.00	0.00	--	--
	14:00	29.0	21.5	19.0	20.0	--	--	0.00	0.00	0.00	--	--
	16:00	31.0	21.0	16.0	18.5	--	--	0.00	0.00	0.00	--	--
	18:00	33.0	21.0	17.5	20.0	--	--	0.00	0.00	0.00	--	--
	20:00	35.0	20.0	17.0	20.5	--	--	0.00	0.00	0.00	--	--
	22:00	37.0	21.0	16.0	21.0	--	--	0.00	0.00	0.00	--	--
	6:00	45.0	19.0	15.5	20.0	--	--	0.00	0.00	0.00	--	--
	8:00	47.0	20.0	16.5	23.0	--	--	0.00	0.00	0.00	--	--
	10:00	49.0	22.0	20.0	25.0	--	--	0.00	0.00	0.00	--	--
	12:00	51.0	22.5	20.5	23.0	--	--	0.00	0.03	0.27	+	--
	14:00	53.0	23.0	20.0	21.5	--	--	0.00	0.01	0.23	--	--
	16:00	55.0	22.5	18.5	20.0	--	--	0.00	0.01	0.20	--	--
	18:00	57.0	20.5	16.5	20.5	--	--	0.00	0.00	0.09	--	--
	20:00	59.0	20.5	18.0	24.0	--	--	0.00	0.00	0.04	--	--
	22:00	61.0	19.0	15.5	18.0	--	--	0.00	0.00	0.01	--	--
	6:00	69.0	20.0	17.0	23.0	--	--	0.00	0.00	0.00	--	--
	8:00	71.0	20.5	17.5	22.0	--	--	0.00	0.00	0.00	--	--
	10:00	73.0	22.0	19.5	24.0	--	--	0.00	0.00	0.00	--	--
	12:00	75.0	22.5	20.0	20.0	--	--	0.00	0.00	0.19	--	--
	14:00	77.0	22.0	20.0	19.0	--	--	0.00	0.01	0.14	--	--
	16:00	79.0	21.0	17.5	22.0	--	--	0.00	0.01	0.21	--	--
	18:00	81.0	21.5	17.0	20.5	--	--	0.00	0.00	0.17	--	--
	20:00	83.0	21.5	16.5	22.0	--	--	0.00	0.00	0.02	--	--
	22:00	85.0	19.0	13.5	15.5	--	--	0.00	0.00	0.08	--	--
	9:00	96.0	17.0	11.0	15.0	--	--	0.00	0.00	0.08	--	--

10/24/16 | 10/25/16 | 10/26/16 | 10/27/16 | 10/28/16

Notes:

1) Hg- Inches Of Mercury

2) Vacuum Recorded as a Negative Pressure in Hg

STINGER DEPTH ADJUSTMENTS

Site: Eddie's Pit Stop UST Site # 18871	Project No.: 73098106	Dates: 10/03/16 - 10/07/16	Event #: 3

	MW-5			MW-12		
	Depth to Water	Depth to Product	Product Thickness	Depth to Water	Depth to Product	Product Thickness
Pre Event:	8.09	--	--	10.24	--	--
Post Event:	9.83	--	--	8.47	--	--
	Historical Low DTW		24.92	Historical Low DTW		26.05
	Stinger Depth (feet btoc)					

Date	Time	Elapsed Time	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW
	9:00	0	9.0	0.0	15.92	11.0	0.0	15.05
	9:30	0.5	10.0	-1.0	14.92	12.0	-1.0	14.05
	10:00	1.0	11.0	-1.0	13.92	13.0	-1.0	13.05
	10:30	1.5	12.0	-1.0	12.92	14.0	-1.0	12.05
	11:00	2.0	13.0	-1.0	11.92	15.0	-1.0	11.05
	11:30	2.5	14.0	-1.0	10.92	16.0	-1.0	10.05
	12:00	3.0	15.0	-1.0	9.92	17.0	-1.0	9.05
	12:30	3.5	16.0	-1.0	8.92	18.0	-1.0	8.05
	13:00	4.0	17.0	-1.0	7.92	19.0	-1.0	7.05
	13:30	4.5	18.0	-2.0	6.92	20.0	-1.0	6.05
	14:00	5.0	19.0	-1.0	5.92	21.0	-1.0	5.05
	14:30	5.5	20.0	-1.0	4.92	22.0	-1.0	4.05
10/24/16	15:00	6.0	21.0	-1.0	3.92	23.0	-1.0	3.05
	15:30	6.5	22.0	-1.0	2.92	24.0	-1.0	2.05
	16:00	7.0	23.0	-1.0	1.92	24.5	-0.5	1.55
	16:30	7.5	24.0	-1.0	0.92	25.0	-0.5	1.05
	17:00	8.0	25.0	-1.0	-0.08	25.0	0.0	1.05
	18:00	9.0	25.0	0.0	-0.08	25.0	0.0	1.05
	19:00	10.0	25.0	0.0	-0.08	25.0	0.0	1.05
	20:00	11.0	25.0	0.0	-0.08	25.0	0.0	1.05
	21:00	12.0	25.0	0.0	-0.08	25.0	0.0	1.05
	22:00	13.0	25.0	0.0	-0.08	25.0	0.0	1.05
	23:00	14.0	25.0	0.0	-0.08	25.0	0.0	1.05
	0:00	15.0	25.0	0.0	-0.08	25.0	0.0	1.05
	1:00	16.0	25.0	0.0	-0.08	25.0	0.0	1.05
	6:00	21.0	25.0	0.0	-0.08	25.0	0.0	1.05
	8:00	23.0	25.0	0.0	-0.08	25.0	0.0	1.05
	10:00	25.0	25.0	0.0	-0.08	25.0	0.0	1.05
	12:00	27.0	25.0	0.0	-0.08	25.0	0.0	1.05
10/25/16	14:00	29.0	25.0	0.0	-0.08	25.0	0.0	1.05
	16:00	31.0	25.0	0.0	-0.08	25.0	0.0	1.05
	18:00	33.0	25.0	0.0	-0.08	25.0	0.0	1.05
	20:00	35.0	25.0	0.0	-0.08	25.0	0.0	1.05
	22:00	37.0	25.0	0.0	-0.08	25.0	0.0	1.05
	6:00	45.0	25.0	0.0	-0.08	25.0	0.0	1.05
	8:00	47.0	25.0	0.0	-0.08	25.0	0.0	1.05
	10:00	49.0	25.0	0.0	-0.08	25.0	0.0	1.05
	12:00	51.0	25.0	0.0	-0.08	25.0	0.0	1.05
10/26/16	14:00	53.0	25.0	0.0	-0.08	25.0	0.0	1.05
	16:00	55.0	25.0	0.0	-0.08	25.0	0.0	1.05
	18:00	57.0	25.0	0.0	-0.08	25.0	0.0	1.05
	20:00	59.0	25.0	0.0	-0.08	25.0	0.0	1.05
	22:00	61.0	25.0	0.0	-0.08	25.0	0.0	1.05

			MW-5			MW-12		
			Depth to Water	Depth to Product	Product Thickness	Depth to Water	Depth to Product	Product Thickness
		Pre Event:	8.09	--	--	10.24	--	--
		Post Event:	9.83	--	--	8.47	--	--
			Historical Low DTW		24.92	Historical Low DTW		26.05
			Stinger Depth (feet btoc)					
Date	Time	Elapsed Time	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW	Depth of Stinger BTOC	Change in Depth of Stinger	Depth Above Historical Low DTW
10/27/16	6:00	69.0	25.0	0.0	-0.08	25.0	0.0	1.05
	8:00	71.0	25.0	0.0	-0.08	25.0	0.0	1.05
	10:00	73.0	25.0	0.0	-0.08	25.0	0.0	1.05
	12:00	75.0	25.0	0.0	-0.08	25.0	0.0	1.05
	14:00	77.0	25.0	0.0	-0.08	25.0	0.0	1.05
	16:00	79.0	25.0	0.0	-0.08	25.0	0.0	1.05
	18:00	81.0	25.0	0.0	-0.08	25.0	0.0	1.05
	20:00	83.0	25.0	0.0	-0.08	25.0	0.0	1.05
	22:00	85.0	25.0	0.0	-0.08	25.0	0.0	1.05
10/28/16	9:00	96.0	25.0	0.0	-0.08	25.0	0.0	1.05

Ground Water Drawdown Measurements

Site: Eddie's Pit Stop - Pageland, SC	UST Site # 18871	Project No.: 730698106	Dates: 10/24/16 - 10/28/16	Event #: 3

Date	Time	Elapsed Time	Depth of Stinger BTOC (feet)	Depth to Water (feet btoc)						
				Extraction Wells		Observation Wells				
				MW-5	MW-12	MW-1	MW-13	MW-18		
10/24/16	**Initial**	0	--	8.09	10.24	17.01	10.44	10.91	--	--
	11:30	2.0	--	--	--	--	--	--	--	--
	13:30	4.0	--	--	--	--	--	--	--	--
	15:30	6.0	--	--	--	--	--	--	--	--
	17:30	8.0	--	--	--	--	--	--	--	--
	19:30	10.0	--	--	--	--	--	--	--	--
	21:30	12.0	--	--	--	--	--	--	--	--
	23:30	14.0	--	--	--	--	--	--	--	--
	1:30	16.0	--	--	--	--	--	--	--	--
10/25/16	6:00	20.5	--	--	--	--	--	--	--	--
	8:00	22.5	--	--	--	--	--	--	--	--
	10:00	24.5	--	--	--	--	--	--	--	--
	12:00	26.5	--	--	--	--	--	--	--	--
	14:00	28.5	--	--	--	--	--	--	--	--
	16:00	30.5	--	--	--	--	--	--	--	--
	18:00	32.5	--	--	--	--	--	--	--	--
	20:00	34.5	--	--	--	--	--	--	--	--
	22:00	36.5	--	--	--	--	--	--	--	--
10/26/16	6:00	44.5	--	--	--	--	--	--	--	--
	8:00	46.5	--	--	--	--	--	--	--	--
	10:00	48.5	--	--	--	--	--	--	--	--
	12:00	50.5	--	--	--	--	--	--	--	--
	14:00	52.5	--	--	--	--	--	--	--	--
	16:00	54.5	--	--	--	--	--	--	--	--
	18:00	56.5	--	--	--	--	--	--	--	--
	20:00	58.5	--	--	--	--	--	--	--	--
	22:00	60.5	--	--	--	--	--	--	--	--
10/27/16	6:00	68.5	--	--	--	--	--	--	--	--
	8:00	70.5	--	--	--	--	--	--	--	--
	10:00	72.5	--	--	--	--	--	--	--	--
	12:00	74.5	--	--	--	--	--	--	--	--
	14:00	76.5	--	--	--	--	--	--	--	--
	16:00	78.5	--	--	--	--	--	--	--	--
	18:00	80.5	--	--	--	--	--	--	--	--
	20:00	82.5	--	--	--	--	--	--	--	--
	22:00	84.5	--	--	--	--	--	--	--	--
10/28/16	9:30	96.0	--	--	--	--	--	--	--	--
	Post	--	--	9.83	8.47	18.06	11.52	11.49	--	--
	Total Groundwater Drawdown			**1.74**	**-1.77**	**1.05**	**1.08**	**0.58**	**--**	**--**

Notes:

- No free product was encountered

APPENDIX G

Disposal Manifest

02:08 PM Oct/11/2016
Truck ID:7011
Gross:29020LB
Tare:LB
Net:LB

04:40 PM Oct/11/2016
Truck ID:7011
Gross:29020LB
Tare:27180LB
Net:1840LB

regulatory solutions, inc.

CUSTOMER NAME: Terracon

GENERATOR: SCDOT Pageland (Eddies Pit Stop)

TRUCK/CONTAINER #: TI-01 / TK-04

MANIFEST#: 23970

WEIGHER (INITIALS): JMC

7011

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	23970

GENERATOR

5. Generator's Name and Mailing Address: SCDOT , SC 803-741-9000

Generator's Site Address (if different than mailing address): SCDOT - Eddie's Pit Stop Rt. 2, US Hwy 601 North, Pageland, SC

Generator's Phone:

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- 803-926-0089 — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10471 - 1247	1	TT	250	g	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Pageland Only 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/Offeror's Printed/Typed Name: X — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Justin Conley — Signature — Month: 10 — Day: 11 — Year: 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

220 Gallons based on actual weight — 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: Amy McKenzie — Signature: Amy McKenzie — Month: 10 — Day: 11 — Year: 16

INBOUND
10:09 AM Nov/03/2016
ID:7140
24160 lb

OUTBOUND
10:28 AM Nov/03/2016
ID:7140
24160 lb G
17480 lb T
6680 lb N

regulatory solutions, inc.

CUSTOMER NAME: Terracon

GENERATOR: Eddie's Pit Stops

TRUCK/CONTAINER #:

MANIFEST#: 24118

WEIGHER (INITIALS): AMEK

7140

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	803-926-0089	24118

5. Generator's Name and Mailing Address
SCDOT
, SC
803-741-9000
Generator's Phone:

Generator's Site Address (if different than mailing address)
SCDOT - Eddie's Pit Stop
1908 US-601,
Pageland, SC 29728

6. Transporter 1 Company Name
Terracon
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-
803-926-0089
Facility's Phone:
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-RCRA, NOT DOT REGULATED MATERIAL 10471 - 1247	1	TT	901	g	
2.						
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: Spencer Blair
Signature:
Month: 11 Day: 3 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Spencer Blair
Signature:
Month: 11 Day: 3 Year: 16

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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: Amy McKenzie
Signature: Amy McKenzie
Month: 11 Day: 3 Year: 16

169-BLC-O 5 11977 (Rev. 9/09)

TRANSPORTER #1

dhec
Healthy People. Healthy Communities.

FEB 0 2 2017

UST 25 Tech DOCKETING

MARK HUNTER
SC DEPARTMENT OF TRANSPORTATION
PO BOX 191
COLUMBIA SC 29202-0191

Re: **Site-Specific Work Plan Directive**
Eddies Pit Stop, Rte 2, Hwy 601 N, Pageland, SC
UST Permit #18871
Release reported October 15, 1992
Aggressive Fluid Vapor Recovery Report received December 14, 2016
Chesterfield County

Dear Mr. Hunter:

On behalf of the Underground Storage Tank (UST) Management Division of the Department of Health and Environmental Control (DHEC), the referenced report has been reviewed.

To evaluate the current site conditions, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, please have your contractor develop a Site Specific Work Plan for a groundwater sampling event. Sampling should include monitoring wells MW-1, MW-4, MW-5, MW-8, MW-12, RW-1, RW-2, trip blanks, field blanks, and field duplicates for BTEX, naphthalene, 1,2-DCA, MTBE, oxygenates, and EDB. In addition MW-2 and MW-3 should be gauged only for water level and free product thickness. Wells with well screens that bracket the water table interface should not be purged. The groundwater sampling event should be conducted in accordance with the contractor's ACQAP and must be conducted in compliance with all applicable regulations. A copy of QAPP Revision 3.1 for the UST Division is available at http://www.scdhec.gov/environment/docs/DHEC%20UST%20QAPP_Rev3.1(2).pdf.

Please have your contractor submit the Site Specific Work Plan and Cost Proposal within thirty days of the date of this letter. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial pre-approval from the DHEC must be issued before work begins**.

On all correspondence concerning this site, please reference UST Permit #18871. If you have any questions, please contact me at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical File
Terracon Consultants, Inc., 521 Clemson Rd., Columbia, SC 29229-4307

LETTER OF TRANSMITTAL

Terracon

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Mr. Read Miner

SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 2/20/17	JOB NO. 73098106
RE: Eddies Pit Stop Site-Specific Work Plan/ GWS	
UST Permit # 18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

UST
FED 2 2 2017
PROGRAM

UST
26
DOCKETING

COPIES	DATE	DESCRIPTION
1	2/16/17	Site Specific Work Plan/ GWS

THESE ARE TRANSMITTED as checked below:

X For approval
☐ For your use
☐ As requested
☐ For review and comment

☐ Approved as submitted
☐ Approved as noted
☐ Returned for corrections

☐ Resubmit ___ copies for approval
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints

REMARKS:

Enclosed is the SSWP for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: _____

SIGNED: **Mike Hudgins**

If enclosures are not as noted, kindly notify us at once.

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

To: Read S. Miner (SCDHEC Project Manager)
From: Mike Hudgins (Contractor Project Manager)
Contractor: Terracon Consultants UST Contractor Certification Number: 246

Facility Name: Eddies Pit Stop UST Permit #: 18871
Facility Address: Rte 2, Hwy 601 N, Padgeland
Responsible Party: SC Department of Transportation Phone: 803-737-1395
RP Address: P.O. Box 191, Columbia, SC 29202-0191
Property Owner (if different): Eric Simpson
Property Owner Address: P.O. Box 1513, Lancaster, SC 29721
Current Use of Property: Vacant gas 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 (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other _____
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☐ EDB (504.1)

Soil:

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

Air:

- ☐ BTEXN

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

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

Field Screening Methodology

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

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

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

# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

_____

_____

UST Permit #: 18871 Facility Name: Eddies Pit Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 7 Field Work Completion: 31
Report Submittal: 46 # 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: 20 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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

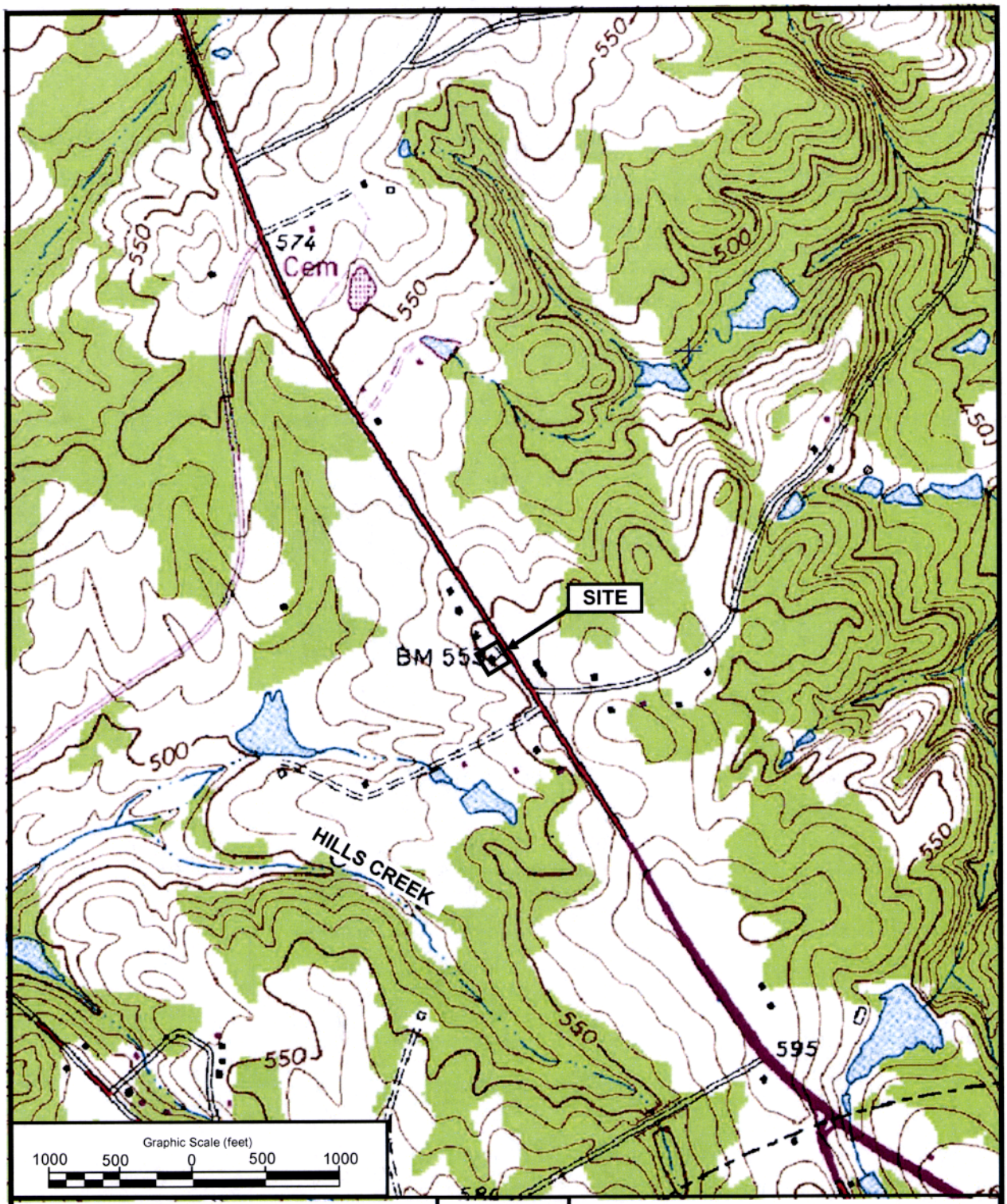
Select monitoring wells: (MW-1, MW-4, MW-5, MW-8, MW-12, RW-1, and RW-2) associated with the UST No. 18871 release will be sampled during this ground water sampling event. Since it has been less than 12 months since the last ground water sampling event, all monitoring wells with well screens bracketing the water table will be collected as grab samples with disposable PVC bailers. Monitoring wells with screens that do not bracket the water table will be purged utilizing the low-flow parametric method listed in Terracon's SOP. Monitoring Wells MW-2 and MW-3 will be gauged for water levels and free product thickness.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
____ Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

____ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



USGS TOPOGRAPHIC QUADRANGLE MAP
PAGELAND, SOUTH CAROLINA

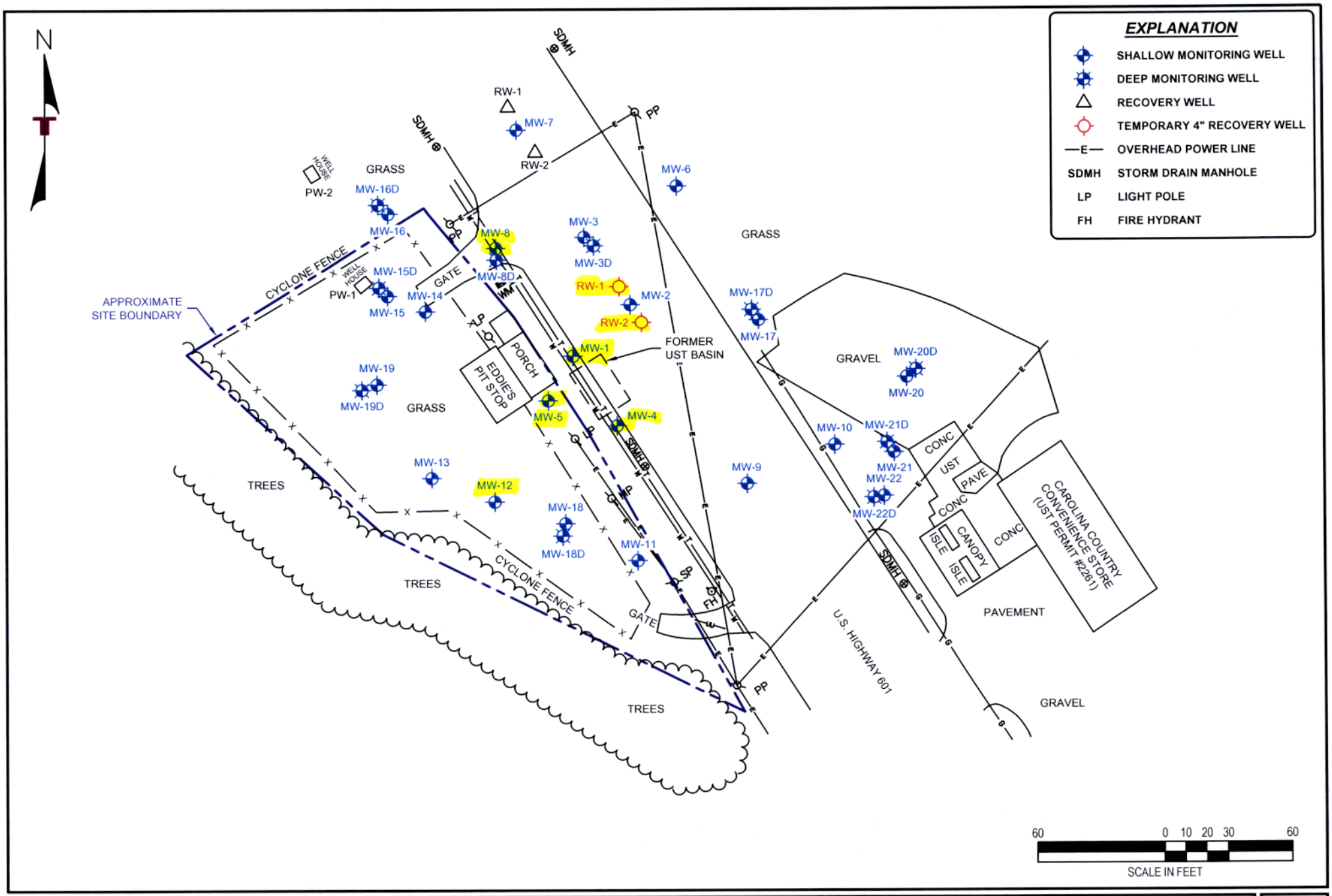
DATE: 1993
SCALE: 1 INCH = 1000 FEET
PROJECT NO. 73098106

N

Terracon

SITE LOCATION MAP
EDDIE'S PITT STOP
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA

FIGURE 1: TOPOGRAPHIC MAP



Project Mngr:	RWN
Drawn By:	PTK
Checked By:	RWN
Approved By:	PMH

Project No.	73098106
Scale:	AS SHOWN
File No.	73098106
Date:	FEBRUARY 2016

Terracon
Consulting Engineers and Scientists
521 CLEMSON ROAD COLUMBIA, SC 29229
PH. (803) 741-9000 FAX. (803) 741-9900

SITE MAP WITH UTILITIES

EDDIE'S PIT STOP - SCDOT
ROUTE 2, US HIGHWAY 601 NORTH
PAGELAND, SOUTH CAROLINA
UST PERMIT #18871

Figure 2

dhec
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
August 16, 2016

Facility Name: Eddies Pit Stop

UST Permit #: 18871 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	2	each	$423.00	$846.00
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. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge		per well/receptor	$60.00	$0.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater (No Purge or Duplicate)	8	per well/receptor	$28.00	$224.00
E1. Gauge Well only	2	per well	$7.00	$14.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	1	each	$24.60	$24.60

Facility Name: Eddies Pit Stop

UST Permit #: 18871 **Cost Agreement #:**

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	10	per sample	$122.00		$1,220.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	9	per sample	$45.20		$406.80
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)		per sample	$124.05		$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	$91.75		$0.00
N. EDB (504.1)		per sample	$79.50		$0.00
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	20	gallon	$0.56		$11.20
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

Facility Name: Eddies Pit Stop

UST Permit #: 18871 **Cost Agreement #:**

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	1	each	$50.00		$50.00
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 Coordination	12%	percent	$2,946.60		$353.59
TOTAL					$3,300.19

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

dhec
Healthy People Healthy Communities

MAR 0 3 2017

UST DOCKETING

MARK HUNTER
SC DEPARTMENT OF TRANSPORTATION
PO BOX 191
COLUMBIA SC 29202-0191

Re: **Sample Directive**
Eddies Pit Stop, Rte 2, Hwy 601 N, Pageland, SC
UST Permit #18871; CA #54003
Release reported October 15, 1992
Site-Specific Work Plan received February 22, 2017
Chesterfield County

Dear Mr. Hunter:

On behalf of the Department of Health and Environmental Control (DHEC), the Underground Storage Tank (UST) Management Division has reviewed the referenced plan submitted on your behalf by Terracon Consultants, Inc. Sampling of selected monitoring wells is necessary. All work should be conducted in accordance with the contractor's ACQAP and must be conducted in compliance with all applicable regulations. A copy of QAPP Revision 3.1 for the UST Management Division is available at http://www.scdhec.gov/environment/docs/DHEC%20UST%20QAPP_Rev-3.1(2).pdf.

Activities at the site should begin immediately upon receipt of this letter. Cost agreement # 54003 has been approved for the amount shown on the enclosed cost agreement form for the sampling of selected monitoring wells and analysis for BTEX, naphthalene, MTBE, 1,2-DCA, oxygenates, and EDB. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. Wells with well screens that bracket the water table interface should not be purged.

The Monitoring Report and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina 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.

Terracon 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.

Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

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

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 regarding this site, please reference UST Permit #18871. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Terracon Consultants, Inc., 521 Clemson Rd., Columbia, SC 29229 (with enclosure)
Technical File (with enclosure)

Approved Cost Agreement 54003

Facility: 18871 EDDIES PIT STOP

MINERRS

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
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)	5.0000	$60.000	300.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	3.0000	$28.000	84.00
		E1	GAUGE WELL ONLY	2.0000	$7.000	14.00
		H1	FIELD BLANK	1.0000	$24.600	24.60
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	10.0000	$122.000	1,220.00
		F1	EDB BY 8011	9.0000	$45.200	406.80
17 DISPOSAL						
		AA	WASTEWATER	50.0000	$0.560	28.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$3,123.400	374.81
25 WELL REPAIR						
		A1	ADDITIONAL COPIES OF REPORT	1.0000	$50.000	50.00
				Total Amount		3,498.21

Document Receipt Information

[X] Hard Copy [X] CD [ ] Email

Date Received 5-26-17

Permit Number 18871

Project Manager Read Miner

Name of Contractor Terracon

UST Certification Number

Docket Number 28T

Scanned

GWS Report

LETTER OF TRANSMITTAL

Terracon

521 Clemson Rd.
Columbia, SC 29229
803-741-9000 / 803-741-9900 fax

TO Read S. Miner

SCDHEC
Bureau of Land and Waste Management

UST Program
2600 Bull St.

Columbia, SC 29201

DATE 05/24/17	JOB NO. 73098106
RE: Eddie's Pit Stop GWS Report	
UST Permit # 18871	

WE ARE SENDING YOU **X** Attached ☐ Under separate cover via _____ the following items:

COPIES	DATE	DESCRIPTION
1	05/24/17	GWS Report (CD + Hard Copy)

THESE ARE TRANSMITTED as checked below:

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REMARKS:

Enclosed is the report for the above referenced site. Please feel free to call me if you have any questions.

COPY TO: Tim Hunter / SCDOT (e-mail)

SIGNED: **Michael Hudgins**

If enclosures are not as noted, kindly notify us at once.

Ground Water Assessment Report

Eddies Pitt Stop
Route 2, US Highway 601 North
Pageland, South Carolina

UST PERMIT # 18871

May 24, 2017
Terracon Project No. 73098106

Prepared for:
South Carolina Department of Transportation
P.O. Box 191
Columbia, South Carolina 29202

Prepared by:
Terracon Consultants, Inc.
Columbia, South Carolina

Offices Nationwide
Employee-Owned
Established in 1965
terracon.com
Terracon
Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

May 24, 2017

Mr. Read Miner
South Carolina Department of Health
and Environmental Control
Bureau of Land and Waste Management
UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: ***Report of Ground Water Assessment***
Eddies Pitt Stop
Route 2, US Highway 601 North, Pageland, South Carolina
UST Permit # 18871; C.A. 54003
Terracon Project No. 73098106

Dear Mr. Miner:

On behalf of the South Carolina Department of Transportation, **Terracon Consultants, Inc.** is pleased to submit this Ground Water Assessment Report for the Eddies Pitt Stop in Pageland, South Carolina. This report summarizes the results of the assessment activities and our conclusions and recommendations.

If you have any questions regarding the contents of this report, or if you need additional information, please contact us at (803) 741-9000.

Sincerely,

Terracon Consultants, Inc.
UST Contractor Certification No. 246

Courtney N. Brown
Field Environmental Engineer

P. Michael Hudgins, P.G.
Senior Hydrogeologist
S.C. Registration No. 1137

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Attachment

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Note: *Figure 3, Table 1, and select Appendices were omitted intentionally to adhere to the reporting format as required by the QAPP.*